KENWOOD

WSCA 06913

This searchable pdf document contains all Kenwood radio equipment offered through WSCA contract number 06913 The prices shown are Manufacturers Suggested Retail Price (MSRP) and the discount off the shown price is 30%

Tier I, Single Band, Portable Radios And Accessories
Tier II & III, Single Band, Mobile And Portable Radios And Accessories
Tier II, Single Band, Desktop Radios and Accessories

Contract Discount Is 30% Off Shown MSRP
Services; Per Hour Cost
Equipment configuration and System Design $150.00
Technical Support Services $150.00
Equipment Installation $115.00
Equipment Repair $115.00
Training $115.00

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Table of Contents:

Portables

Mobiles

KENWOOD

NEXEDGE P25

NX-5200/5300

VHF/UHF Digital & FM Analog Portable Radios

<Standard Key Model >   <Full Key Model >

All NX-5000 series portables include:
• Belt Clip (KBH-11)
• Universal Connector Cap
• User Guide
• Premium Warranty: 3 Years**

All Accessories / options: 1 Year

Purchase Battery, Charger, Antenna separately

** **Note:** To maintain immersion specs (IP67/68), all warranty service must be done by one of the three National Kenwood Authorized Service Centers. IP67/68 Certification is valid under the 3 year premium warranty. No re-certification is available.

Because of spurious signal (birdie), the following frequencies (and ±10kHz ranges) are not allowed;

• 144.0000	• 384.0000	• 460.8000
• 147.4560	• 403.2000	• 480.0000
• 153.6000	• 422.4000	• 499.2000
• 172.0325	• 432.0000	• 518.4000
• 172.8000	• 441.6000	

STANDARD

■ GENERAL FEATURES

• 5 W (136-174 MHz) Models
• 5 W (380-470, 450-520 MHz) Models
• 1024 CH-GID / 128 Zones
• Standard Key Models (w/o numeric keypad)
• Full Key Models (w/ numeric keypad)
• Full Color 1.74" (240 x 180 pixels) Transflective TFT Display
• Multi-line Text Display
• Function/Status Icons
• Multi-Language Display*
• Date & 12/24 Hour Time Clock
• Transmit/Busy/Call Alert/Warn LED
• On/Off Volume Knob
• 16-Position Mechanical Selector (w/ a stopper)
• 4-way Directional-pad (D-pad)
• 2 Position Lever Switch
• Emergency/AUX Key
• 3 Side PF Keys
• 1W Speaker Audio
• Emergency Call Features
• Built-in GPS Receiver / Antenna
• Built-in Bluetooth® Module for hands-free operation
• Built-in Motion Sensor
• Built-in 56-bit DES Encryption *
• Active Noise Reduction (ANR)
• KPG-D1N Windows® FPU
• Flash Firmware Upgrading
• MIL-STD-810 C/D/E/F/G
• IP67/68 Immersion

■ DIGITAL–NXDN® MODE

• NXDN® Conventional / TYPE-C Trunking
• AMBE+2™ VOCODER
• 6.25 & 12.5 kHz Channels
• Over-the-Air Alias
• Over-the-Air Programming (requires KPG-180AP OTAP Manager Software)*
• Paging Call *
• Emergency Call
• All Group Call
• Status Messaging
• Remote Stun/Kill/Check
• Short & Long Data Messages
• GPS Location
• NXDN® Scrambler

■ ANALOG MODE

• Conventional Zones
• LTR® Zones *
• FleetSync®/II*: PTT ID ANI, Caller ID Display, Selective/Group Call, Emergency Status, Text Messages
• MDC-1200*: PTT ID ANI, Caller ID Display, Emergency, Radio Check & Inhibit
• QT / DQT
• Two-Tone* (Conventional Zones Only)
• DTMF*
• Built-in Voice Inversion Scrambler

* Future Availability

OPTIONAL

■ GENERAL FEATURES

• 4000 CH-GID / 128 Zones (KWD-5000CH License Key Activation required)
• Front Panel Programming (KWD-5001FP License Key Activation required)
• microSD/microSDHC Memory Card Slot (KWD-5002SD License Key Activation required)
• Built-in Bluetooth® Module for Data (KWD-5003BT** License Key Activation required)
• 256-bit AES Encryption (KWD-AE30K/31K Encryption Module required)
• Battery Management Solution (KSC-Y32K Charger & KAS-12K Software License Key required)
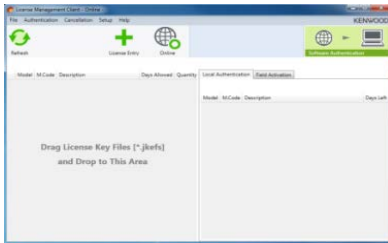
■ DIGITAL – P25 MODE

• Conventional Features (KWD-5100CV License Key Activation required)
• Phase 1 Trunking Features (KWD-5100CV & 5101TR License Keys Activation required)
• Phase 2 Trunking Features (KWD-5100CV & 5101TR & 5102TR License Keys Activation required)
• Conventional OTAR (KWD-5103RK License Key Activation required)
• Trunking OTAR (KWD-5103RK & 5106DT License Keys Activation required)
• Conventional Voting Scan (KWD-5105VT** License Key Activation required)
• Packet Data required for Trunked OTAR/GPS/Text (KWD-5106DT License Keys Activation required)

** Future Availability

RADIO		LIST
Standard Key Models		
NX-5200K2	VHF (136-174MHz), 5.0 Watts NXDN Conventional / TYPE-C Trunking	$ 825.00
NX-5300K2	UHF (450-520MHz), 5.0 Watts NXDN Conventional / TYPE-C Trunking	$ 825.00
NX-5300K5	UHF (380-470MHz), 5.0 Watts NXDN Conventional / TYPE-C Trunking	$ 825.00
Full Key Models		
NX-5200K3	VHF (136-174MHz), 5.0 Watts NXDN Conventional / TYPE-C Trunking	$ 875.00
NX-5300K3	UHF (450-520MHz), 5.0 Watts NXDN Conventional / TYPE-C Trunking	$ 875.00
NX-5300K6	UHF (380-470MHz), 5.0 Watts NXDN Conventional / TYPE-C Trunking	$ 875.00

LICENSING SYSTEM   LIST

Note: KPT-300LMC is compatible with
Windows Vista/7/8/8.1 Only. Windows XP
is not supported.

KPT-300LMC
License Management Client

KPT-300LMC is a required software package that is used to authenticate **software** (FPU) and **radio feature license** keys for the NX-5000 Series radios.

KPT-300LMC is available as a free download from Kenwood Tools and is also supplied with applicable software, such as KPG-D1NK, KAS-12, and KPG-AE1/DE1.

NOTE: A license key is required for the KPT-300LMC to authenticate the software prior to use. To receive a license key, complete the enclosed "**Account Request Form**" and return to the Land Mobile Order Desk.

License Keys will be E-Mailed to the address provided on the Account Request Form.

KPT-300LMC	License Management Client	NC
L-5000	KPT-300LMC License Key	NC

SOFTWARE LICENSE OPTIONS

TO PLACE AN ORDER FOR SOFTWARE (FPU):
1. **Complete the attached KPG-D1NK Software License Key Request Form.**
2. **Submit along with your PO to the Land Mobile Order Desk via:**
   a) **E-Mail: lmrorderdesk@us.jvckenwood.com**
   b) **Fax: (310) 761-8246**
3. **License Keys will be E-mailed to the address provided on the order form. A hard copy will follow by mail for your records.**

   * A unique license key is required for each PC with KPG-D1NK installed. A single license key will not authorize multiple PCs.

KPG-D1NK	License Key for KPG-D1NK Programming Software for NX-5000 Portable/Mobile (Windows® Vista/7/8/8.1) *Note: Requires KPT-300LMC for authentication*	$ 155.00

P25 Trunked Programming Capability (licensed by either 1 or 2 below):
1. KPG-D1NK with System Key File (*.SKF)- See L-5005
• For NX-5000 series radios.
• 3-digit HEX System ID (HSID) and verifiable written authorization required from trunked system operator (SYSOP).
• Purchase KPG-D1NK & L-5005 System Key File
• Kenwood ships an encrypted *.SKF file on CD ROM
• The *.SKF securely embeds/encrypts the 16-digit Network Level License ID & the HSID.
2. KPG-D1NK with Advanced System Keys (ASK's)
• For NX-5000 series radios.
• SYSOPs: Refer to KWD-ASK-MK Master Key
• Dealers/contractors: Refer to KWD-ASK-AK Access Key
• KPG-D1NK supports up to 16 KWD-ASK-AK Access Keys (16 trunked networks).

KAS-12K	License Key for KAS-12 Battery Reader Software for KNBL1/2/3/ & KSC-Y32 (Windows® Vista/7/8/8.1) *Note: Requires KPT-300LMC for authentication*	$ 85.00

Software License Key Discount Structure

1 License Key	---
2~4 License Keys	**10% OFF**
5 ~ 14 License Keys	**35% OFF**
15~24 License Keys	**40% OFF**
25+ License Keys	**45% OFF**

RADIO FEATURE LICENSE OPTIONS

PCs registered under the same KPT-300LMC Account Registration Key (License Key) will be able to authentic Radio Features that can then be viewed / shared / managed by all registered users for the account.

* TO PLACE AN ORDER FOR RADIO FEATURE LICENSES:
1. Complete the attached Radio Feature Request Form.
2. Submit the completed form along with your PO to the Land Mobile Order Desk via:
   a) E-Mail: lmrorderdesk@us.jvckenwood.com
   b) Fax: (310) 761-8246
3. License Keys will be E-mailed to the address provided on the request form. A hard copy will follow by mail for your records.

Note: Radio Feature License Keys are not transferable from a radio to a radio. Once a Radio Feature License has been authenticated in one radio, it can not be transferred to another radio.

GENERAL RADIO FEATURES		LIST
KWD-5000CH	License Key for 4000 CH/GID Expansion	$ 420.00
KWD-5001FP	License Key for Front Panel Programming	$ 300.00
KWD-5002SD	License Key for microSD Memory Card Slot Activation	$ 105.00
KWD-5003BT	License Key for Bluetooth Serial Port Profile **[Available 2015 2Q]**	$ 35.00

P25 RADIO FEATURES		LIST
KWD-5100CV	License Key for P25 Conventional	$ 575.00
KWD-5101TR	License Key for P25 Phase 1 Trunking (requires KWD-5100CV)	$ 520.00
KWD-5102TR	License Key for P25 Phase 2 Trunking (requires KWD-5100CV & KWD-5101TR)	$ 400.00
KWD-5103RK	License Key for P25 OTAR (requires KWD-5106DT for a Trunking Operation)	$ 700.00
KWD-5105VT	License Key for P25 Conventional Voting Scan **[Available 2015 2Q]**	$ 120.00
KWD-5106DT	License Key for P25 Packet Data (requires for Trunked OTAR/GPS/Text)	$ 180.00

ANTENNAS		LIST
KRA-26M	VHF helical antenna 146-162 MHz	$ 14.00
KRA-26M2	VHF helical antenna 162-174 MHz	$ 14.00
KRA-26M3	VHF helical antenna 136-150 MHz	$ 14.00
KRA-27M	UHF whip antenna 440-490 MHz	$ 14.00
KRA-27M2	UHF whip antenna 470-520 MHz	$ 14.00
KRA-27M3	UHF whip antenna 400-450 MHz	$ 14.00
KRA-22M	VHF low-profile helical antenna 148-162 MHz	$ 13.70
KRA-22M2	VHF low-profile helical antenna 162-174 MHz	$ 13.70
KRA-22M3	VHF Low-profile helical antenna 136-150 MHz	$ 13.70
KRA-23M	UHF low-profile helical antenna 450-490 MHz	$ 13.70
KRA-23M2	UHF low-profile helical antenna 470-512 MHz	$ 13.70
KRA-23M3	UHF low-profile helical antenna 403-430 MHz	$ 13.70
KRA-25	High gain VHF helically loaded whip antenna 148-162 MHz	$ 34.25

BATTERIES AND CHARGERS		LIST
KNB-L1M	Li-ion 2000mAh (Compact Slim)	$ 115.00
KNB-L2M	Li-ion 2600mAh (Standard)	$ 135.00
KNB-L3M	Li-ion 3400mAh (High Capacity)	$ 175.00
KSC-Y32K	Rapid rate single unit charger (Long-Life Charge Mode capable with KAS-12 Software) **Note:** NiMH/Li-ion battery only	$ 115.00
KAS-12K	License Key for KAS-12 **(Authentication required)** Battery Reader Software for KNB-L1M/L2M/L3M & KSC-Y32 (Windows® Vista/7/8/8.1)	$ 85.00
KSC-32	Rapid rate single unit charger	$ 70.00
KSC-326K	Rapid rate 6-unit charger	$ 630.00
KMB-30M	Wall Mount Bracket for KSC-326K/256K	$ 33.75
KVC-15	Rapid rate DC vehicular charger adapter for the KSC-32 (chargers not included; includes KSC-mobile bracket & cigarette lighter cable DC adapter)	$ 119.00

CARRYING ACCESSORIES		LIST
KBH-11	Spring action belt clip (2.5")	$ 14.70
KBH-8DS	Leather swivel belt loop with portable D-Ring attachment	$ 26.30
KLH-6SW	Leather swivel belt loop / detachable swivel D-Ring back	$ 22.00
KLH-137ST	Firemen's Heavy-Duty Leather Shoulder Strap for a Heavy-Duty Leather Case	$ 36.75
KLH-200K3	Heavy duty leather carrying case for NX-5000-series (for both K2 & K3 models)	$ 44.25
KLH-201K3	Nylon carrying case for NX-5000-series (for both K2 & K3 models)	$ 26.30

MICROPHONES & AUDIO ACCESSORIES		LIST
KMC-54WDM	MIL-SPEC, IP67 (Immersion) Speaker Mic **Compatible with ANR Feature** **Note:** only compatible with a NX-5000 series portable	$ 130.00
KMC-42WDM	MIL-SPEC, IP67 (Immersion) Noise-canceling Speaker Mic	$ 114.00
KMC-49	MIL-SPEC, Speaker Mic. with Antenna Connector **Note**: 5/16" Coax cable hex wrench included (antenna is not included).	$ 250.00
KEP-1	3.5mm earphone kit for KMC-41/42W/54W Speaker Mics	$ 52.50
KEP-2	2.5mm earphone kit for KMC-49 Speaker Mic	$ 52.50
KEP-3	30" Earphone kit w/ 2.5mm plug for KCT-30	$ 51.50
KEP-4	48" Earphone kit w/ 2.5mm plug for KCT-30	$ 54.75
KCT-30	2.5mm Audio Accessory Adapter for KEP-3/4	$ 64.00
KCT-51	Hirose 6-pin Adapter (adapts KVL/aftermarket audio acc. to portable connector)	$ 215.00
KHS-11BL	2-wire palm mic w/earphone, universal connector (Black)	$ 156.50
KHS-12BL	3-wire mini lapel mic w/earphone, universal connector (Black)	$ 184.00
KHS-14	Lt. Wt. Single muff headset w/boom mic & In-line PTT	$ 126.00
KHS-15-BH	Hvy-duty noise reduction behind-the-headset w/noise cancelling boom mic & PTT	$ 420.00
KHS-15-OH	Hvy-duty noise reduction over-the-headset w/noise cancelling boom mic & PTT	$ 368.00

ENCRYPTION MODULES		LIST
KWD-AE30K	AES FIPS140-2 & DES Encryption Module (Multi-Key) Order a Labor Code **L-5003** if installation is required. KWD-AE30K requires: a Motorola KVL3000 Plus/4000 key loader device. KWD-AE30K is an U.S. DOC/BIS Export Controlled Item (ECCN 5A002A.1)	$ 850.00
KWD-AE31K	AES & DES Encryption Module (Multi-Key) Order a Labor Code **L-5004** if installation is required. **Note**: Requires KPG-AE1/DE1 software key loader or Motorola KVL3000 Plus/4000 key loader device. KWD-AE31K is an U.S. DOC/BIS Export Controlled Item (ECCN 5A002A.1)	$ 550.00
KPG-AE1K	AES/DES Encryption Software Key Loader for KWD-AE31K **Authentication by KPT-300LMC is required** **Note**: KPG-AE1 is a U.S. DOC/BIS Export Controlled Item (ECCN 5D002A)	$ 525.00
KPG-DE1K	DES Encryption Software Key Loader for KWD-AE31K **Authentication by KPT-300LMC is required** **Note**: KPG-DE1 is a U.S. DOC/BIS Export Controlled Item (ECCN 5D992A.1)	$ 368.00

SERVICE RELATED ACCESSORIES		LIST
KPG-36UM	USB Programming interface cable	$ 158.50
KPG-93	KVL-3000 Plus/4000 Interface Cable for P25 Portables	$ 262.50
KPG-93AUT	KVL-4000 Radio Authentication Cable **[Available in 2015 2Q]**	*TBD*
KWD-ASK-AK	Access Key for KPG-D1NK P25 trunked programming **Notes:** • For NX-5000 series only • Must be activated by a SYSOP with KWD-ASK-MK Master Key • Must have KPG-D1NK • Battery Life: 3 years (non-serviceable; key must be replaced)	$ 208.00
KWD-ASK-MK	Master Key for activating KWD-ASK-AK Access Keys - Restricted Purchase Requirements - **Notes:** • For NX-5000 series only. • Sold to SYSOP or SYSOP authorized entities only • Must have KPG-D1NK • SYSOP must provide 3-digit HEX HSID & the 16-digit Network Level License ID to Kenwood. • Purchase KWD-ASK-AK Access Keys if needed. • Battery Life: 3 years (non-serviceable; key must be replaced)	$ 500.00

INSTALLATION / TUNING CHARGES		LIST
L-5002	NX-5200/5300/5400 Programming (with basic TX/RX check)	$ 37.50
L-5003	Install KWD-AE30K in NX-5000 series Portable (Must purchase module separately)	$ 75.00
L-5004	Install KWD-AE31K in NX-5000 series Portable (Must purchase module separately)	$ 75.00
L-5005	KPG-D1NK System Key File **Note**: Enables P25 Trunked system programming privileges in a KPG-D1NK. **- Restricted Purchase Requirements -** • 3-Digit HEX System ID (HSID) from SYSOP required • Must Purchase KPG-D1NK with L-5005 • Kenwood ships an encrypted *.SKF file on CD ROM • Non-SYSOP entities ordering L-5005 must provide verifiable written authorization from SYSOP to receive an *.SKF file. • The 16-digit Network Level License ID & 3-digit HEX HSID are securely encrypted & embedded in the *.SKF file.	$ 132.00

-- IMPORTANT NOTES regarding ENCRYPTION MODULES--

Encryption modules, key loaders and radios containing encryption are export controlled by the U.S. Department of Commerce Bureau of Industry & Security EAR regulations and may either require an Export License, are eligible for a License Exception (ENC) or are exportable with No License Required (NLR) depending on the country, the consignee and the intended use. High level encryption is a special commodity that may require an export license to most countries. See www.bis.gov for more information regarding export regulations. DO NOT SHIP encryption items outside the U.S. without proper DOC/BIS Export Licenses and/or compliances.

Kenwood may request the following information to be submitted at time of order (this information must meet Kenwood internal approvals prior to shipment even if being returned to Kenwood later:
a) **Initial Destination:** Initial delivery point if different from Ultimate Destination
(customer distribution center, headquarters, dealership, manufacturer's representative)
* Business/Agency Name:
* Address:
* Contact Person Name:
* Contact Phone:
b) **Ultimate Destination**: Final delivery point(s); deployment/distribution
* Business/Agency Name:
* Address:
* Contact Person Name:
* Contact Phone:
c) **Intended Use of Radios**: Law enforcement, security, operations, etc.

KWD-AE30 AES FIPS140-2 SCM , NIST Validation & Customer Shipping
A secure delivery method direct to the end user customer is required by the NIST AES FIPS 140-2 validation rules. For U.S. Federal Government entities the SCM must ship from Kenwood USA Corporation directly to the end user customer by a trusted carrier (FEDEX, UPS or a designated Kenwood USA Corporation employee); shipping/handling by a dealer or other entity is not acceptable. This may or may not be required by local/state government agencies or business/industrial users. Please check with the end use customer about their AES encryption handling requirements before ordering. Kenwood will not be responsible for shipments of KWD-AE30K modules to erroneous destinations specified on an order.

KENWOOD

NX-5400
700/800MHz Digital & FM Analog Portable Radio

NEXEDGE™
P25

STANDARD

■ GENERAL FEATURES

- 3 W (700/800 MHz) Models
- 1024 CH-GID / 128 Zones
- Standard Key Models (w/o numeric keypad)
- Full Key Models (w/ numeric keypad)
- Full Color 1.74" (240 x 180 pixels)
  Transflective TFT Display
- Multi-line Text Display
- Function/Status Icons
- Multi-Language Display**
- Date & 12/24 Hour Time Clock
- Transmit/Busy/Call Alert/Warn LED
- On/Off Volume Knob
- 16-Position Mechanical Selector (w/ a stopper)
- 4-way Directional-pad (D-pad)
- 2 Position Lever Switch
- Emergency/AUX Key
- 3 Side PF Keys
- 1W Speaker Audio
- Emergency Call Features
- Built-in GPS Receiver / Antenna
- Built-in Bluetooth® Module
  for hands-free operation
- Built-in Motion Sensor
- Built-in 56-bit DES Encryption **
- Active Noise Reduction (ANR)
- KPG-D1N Windows® FPU
- Flash Firmware Upgrading
- MIL-STD-810 C/D/E/F/G
- IP67/68 Immersion

■ ANALOG MODE

- NPSPAC Channels
- Conventional Zones
- LTR® Zones **
- FleetSync®/II**: PTT ID ANI, Caller ID Display,
  Selective/Group Call, Emergency Status,
  Text Messages
- MDC-1200**: PTT ID ANI, Caller ID Display,
  Emergency, Radio Check & Inhibit
- QT / DQT (Conventional Zones Only)
- Voice Inversion Scrambler

**** Future Availability**

[Available in 2Q 2015]

■ DIGITAL – NXDN® MODE**

- NXDN® Conventional
- NXDN® TYPE-C Trunking (only in 800MHz)
- AMBE+2™ VOCODER
- 6.25 & 12.5 kHz Channels
- Over-the-Air Alias
- Over-the-Air Programming
  (require KPG-180AP OTAP Manager Software)
- Paging Call
- Emergency Call
- All Group Call
- Status Messaging
- Remote Stun/Kill/Check
- Short & Long Data Messages
- GPS Location

<Standard Key Model >   <Full Key Model >

All NX-5400 series portables include:
- Belt Clip (KBH-11)
- Universal Connector Cap
- User Guide
- Premium Warranty: 3 Years*

* All Accessories / options: 1 Year

Purchase Battery, Charger, Antenna separately

* **Note:** To maintain immersion specs (IP67/68), all warranty service must be done by one of the three National Kenwood Authorized Service Centers. IP67/68 Certification is valid under the 3 year premium warranty. No re-certification is available.

Because of spurious signal (birdie), the following frequencies (and ±10kHz ranges) are not allowed;
- 864.000

OPTIONAL

■ GENERAL FEATURES

- 4000 CH-GID / 128 Zones (KWD-5000CH License Key Activation required)
- Front Panel Programming (KWD-5001FP License Key Activation required)
- microSD/microSDHC Memory Card Slot (KWD-5002SD License Key Activation required)
- Built-in Bluetooth® Module for Data (KWD-5003BT** License Key Activation required)
- 256-bit AES Encryption (KWD-AE30K/31K Encryption Module required)
- Battery Management Solution (KSC-Y32K Charger & KAS-12K Software License Key required)
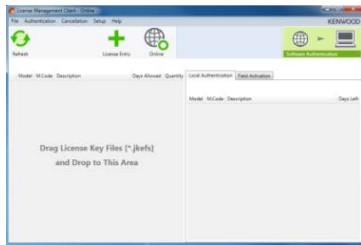
■ DIGITAL – P25 MODE

- Conventional Features (KWD-5100CV License Key Activation required)
- Phase 1 Trunking Features (KWD-5100CV & 5101TR License Keys Activation required)
- Phase 2 Trunking Features (KWD-5100CV & 5101TR & 5102TR License Keys Activation required)
- Conventional OTAR (KWD-5103RK License Key Activation required)
- Trunking OTAR (KWD-5103RK & 5106DT License Keys Activation required)
- Conventional Voting Scan (KWD-5105VT** License Key Activation required)
- Packet Data required for Trunked OTAR/GPS/Text (KWD-5106DT License Keys Activation required)

**** Future Availability**

RADIO		LIST
NX-5400K2	700 / 800 MHz, 3.0 Watts Analog Standard Key Model	$ 825.00
NX-5400K3	700 / 800 MHz, 3.0 Watts Analog Full Key Model	$ 875.00

LICENSING SYSTEM	LIST

Note: KPT-300LMC is compatible with Windows Vista/7/8/8.1 Only. Windows XP is not supported.

KPT-300LMC
License Management Client

KPT-300LMC is a required software package that is used to authenticate **software** (FPU) and **radio feature license** keys for the NX-5000 Series radios.

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NOTE: A license key is required for the KPT-300LMC to authenticate the software prior to use. To receive a license key, complete the enclosed "**Account Request Form**" and return to the Land Mobile Order Desk.

License Keys will be E-Mailed to the address provided on the Account Request Form. A hard copy will follow by mail for your records.

KPT-300LMC	License Management Client	NC
L-5000	KPT-300LMC License Key	NC

SOFTWARE LICENSE OPTIONS

TO PLACE AN ORDER FOR SOFTWARE (FPU):
1. *Complete the attached KPG-D1NK Software License Key Request Form.*
2. *Submit along with your PO to the Land Mobile Order Desk via:*
   a) *E-Mail: lmrorderdesk@us.jvckenwood.com*
   b) *Fax: (310) 761-8246*
3. *License Keys will be E-mailed to the address provided on the order form. A hard copy will follow by mail for your records.*

   * A unique license key is required for each PC with KPG-D1NK installed. A single license key will not authorize multiple PCs.

KPG-D1NK	License Key for KPG-D1NK Programming Software for NX-5000 Portable/Mobile (Windows® Vista/7/8/8.1) *Note: Requires KPT-300LMC for authentication*	$ 155.00

P25 Trunked Programming Capability (licensed by either 1 or 2 below):
1. KPG-D1NK with System Key File (*.SKF)- See L-5005
• For NX-5000 series radios.
• 3-digit HEX System ID (HSID) and verifiable written authorization required from trunked system operator (SYSOP).
• Purchase KPG-D1NK & L-5005 System Key File
• Kenwood ships an encrypted *.SKF file on CD ROM
• The *.SKF securely embeds/encrypts the 16-digit Network Level License ID & the HSID.
2. KPG-D1NK with Advanced System Keys (ASK's)
• For NX-5000 series radios.
• SYSOPs: Refer to KWD-ASK-MK Master Key
• Dealers/contractors: Refer to KWD-ASK-AK Access Key
• KPG-D1NK supports up to 16 KWD-ASK-AK Access Keys (16 trunked networks).

KAS-12K	License Key for KAS-12 Battery Reader Software for KNBL1/2/3/ & KSC-Y32 (Windows® Vista/7/8/8.1) *Note: Requires KPT-300LMC for authentication*	$ 85.00

Software License Key Discount Structure

1 License Key	---
2 ~ 4 License Keys	**10% OFF**
5 ~ 14 License Keys	**35% OFF**
15 ~ 24 License Keys	**40% OFF**
25+ License Keys	**45% OFF**

RADIO FEATURE LICENSE OPTIONS (ACCOUNT REGISTRATION)

PCs registered under the same KPT-300LMC Account Registration Key (License Key) will be able to authentic Radio Features that can then be viewed / shared / managed by all registered users for the account.

__ TO PLACE AN ORDER FOR RADIO FEATURE LICENSES:__*
1. *Complete the attached Radio Feature Request Form.*
2. *Submit the completed form along with your PO to the Land Mobile Order Desk via:*
   a) *E-Mail: lmrorderdesk@us.jvckenwood.com*
   b) *Fax: (310) 761-8246*
3. *License Keys will be E-mailed to the address provided on the request form. A hard copy will follow by mail for your records.*

Note: Radio Feature License Keys are not transferable from a radio to a radio. Once a Radio Feature License has been authenticated in one radio, it can not be transferred to another radio.

GENERAL RADIO FEATURES		LIST
KWD-5000CH	License Key for 4000 CH/GID Expansion	$ 420.00
KWD-5001FP	License Key for Front Panel Programming	$ 300.00
KWD-5002SD	License Key for microSD Memory Card Slot Activation	$ 105.00
KWD-5003BT	License Key for Bluetooth Serial Port Profile **[Available 2015 2Q]**	$ 35.00

P25 RADIO FEATURES		LIST
KWD-5100CV	License Key for P25 Conventional	$ 575.00
KWD-5101TR	License Key for P25 Phase 1 Trunking (requires KWD-5100CV)	$ 520.00
KWD-5102TR	License Key for P25 Phase 2 Trunking (requires KWD-5100CV & KWD-5101TR)	$ 400.00
KWD-5103RK	License Key for P25 OTAR (requires KWD-5106DT for a Trunking Operation)	$ 700.00
KWD-5105VT	License Key for P25 Conventional Voting Scan **[Available 2015 2Q]**	$ 120.00
KWD-5106DT	License Key for P25 Packet Data (requires for Trunked OTAR/GPS/Text)	$ 180.00

ANTENNAS		LIST
KRA-32K	700/800 MHz Whip Antenna	$ 35.00
KRA-36	700/800 MHz Stubby Antenna	$ 25.00

BATTERIES AND CHARGERS		LIST
KNB-L1M	Li-ion 2000mAh (Compact Slim)	$ 115.00
KNB-L2M	Li-ion 2600mAh (Standard)	$ 135.00
KNB-L3M	Li-ion 3400mAh (High Capacity)	$ 175.00
KSC-Y32K	Rapid rate single unit charger (Long-Life Charge Mode capable with KAS-12 Software) **Note:** NiMH/Li-ion battery only	$ 115.00
KAS-12K	License Key for KAS-12 **(Authentication required)** Battery Reader Software for KNBL1/2/3/ & KSC-Y32 (Windows® Vista/7/8/8.1)	$ 85.00
KSC-32	Rapid rate single unit charger	$ 70.00
KSC-326K	Rapid rate 6-unit charger	$ 630.00
KMB-30M	Wall Mount Bracket for KSC-326K/256K	$ 33.75
KVC-15	Rapid rate DC vehicular charger adapter for the KSC-32 (chargers not included; includes KSC-mobile bracket & cigarette lighter cable DC adapter)	$ 119.00

CARRYING ACCESSORIES		LIST
KBH-11	Spring action belt clip (2.5")	$ 14.70
KBH-8DS	Leather swivel belt loop with portable D-Ring attachment	$ 26.30
KLH-6SW	Leather swivel belt loop / detachable swivel D-Ring back	$ 22.00
KLH-137ST	Firemen's Heavy-Duty Leather Shoulder Strap for a Heavy-Duty Leather Case	$ 36.75
KLH-200K3	Heavy duty leather carrying case for NX-5000-series (for both keypad models)	$ 44.25
KLH-201K3	Nylon carrying case for NX-5000-series (for both keypad models)	$ 26.30

MICROPHONES & AUDIO ACCESSORIES		LIST
KMC-54WDM	MIL-SPEC, IP67 (Immersion) Speaker Mic **Compatible with ANR Feature** **Note:** only compatible with a NX-5000 series portable	$ 130.00
KMC-42WDM	MIL-SPEC, IP67 (Immersion) Noise-canceling Speaker Mic	$ 114.00
KMC-49	MIL-SPEC, Speaker Mic. with Antenna Connector **Note**: 5/16" Coax cable hex wrench included (antenna is not included).	$ 250.00
KEP-1	3.5mm earphone kit for KMC-41/42W/54W Speaker Mics	$ 52.50
KEP-2	2.5mm earphone kit for KMC-49 Speaker Mic	$ 52.50
KEP-3	30" Earphone kit w/ 2.5mm plug for KCT-30	$ 51.50
KEP-4	48" Earphone kit w/ 2.5mm plug for KCT-30	$ 54.75
KCT-30	2.5mm Audio Accessory Adapter for KEP-3/4	$ 64.00
KCT-51	Hirose 6-pin Adapter (adapts KVL/aftermarket audio acc. to portable connector)	$ 215.00
KHS-11BL	2-wire palm mic w/earphone, universal connector (Black)	$ 156.50
KHS-12BL	3-wire mini lapel mic w/earphone, universal connector (Black)	$ 184.00
KHS-14	Lt. Wt. Single muff headset w/boom mic & In-line PTT	$ 126.00
KHS-15-BH	Hvy-duty noise reduction behind-the-headset w/noise cancelling boom mic & PTT	$ 420.00
KHS-15-OH	Hvy-duty noise reduction over-the-headset w/noise cancelling boom mic & PTT	$ 368.00
ENCRYPTION MODULES		LIST
KWD-AE30K	AES FIPS140-2 & DES Encryption Module (Multi-Key) Order a Labor Code **L-5003** if installation is required. KWD-AE30K requires: a Motorola KVL3000 Plus/4000 key loader device. KWD-AE30K is an U.S. DOC/BIS Export Controlled Item (ECCN 5A002A.1)	$ 850.00
KWD-AE31K	AES & DES Encryption Module (Multi-Key) Order a Labor Code **L-5004** if installation is required. **Note**: Requires KPG-AE1/DE1 software key loader or Motorola KVL3000 Plus/4000 key loader device. KWD-AE31K is an U.S. DOC/BIS Export Controlled Item (ECCN 5A002A.1)	$ 550.00
KPG-AE1K	AES/DES Encryption Software Key Loader for KWD-AE31K **Authentication by KPT-300LMC is required** **Note**: KPG-AE1 is a U.S. DOC/BIS Export Controlled Item (ECCN 5D002A)	$ 525.00
KPG-DE1K	DES Encryption Software Key Loader for KWD-AE31K **Authentication by KPT-300LMC is required** **Note**: KPG-DE1 is a U.S. DOC/BIS Export Controlled Item (ECCN 5D992A.1)	$ 368.00

SERVICE RELATED ACCESSORIES		LIST
KPG-36UM	USB Programming interface cable	$ 158.50
KPG-93	KVL-3000 Plus/4000 Interface Cable for P25 Portables	$ 262.50
KPG-93AUT	KVL-4000 Radio Authentication Cable **[Available in 2015 2Q]**	*TBD*
KWD-ASK-AK	Access Key for KPG-D1NK P25 trunked programming **Notes:** • For NX-5000 series only • Must be activated by a SYSOP with KWD-ASK-MK Master Key • Must have KPG-D1NK • Battery Life: 3 years (non-serviceable; key must be replaced)	$ 208.00
KWD-ASK-MK	Master Key for activating KWD-ASK-AK Access Keys - **Restricted Purchase Requirements** - **Notes:** • For NX-5000 series only. • Sold to SYSOP or SYSOP authorized entities only • Must have KPG-D1NK • SYSOP must provide 3-digit HEX HSID & the 16-digit Network Level License ID to Kenwood. • Purchase KWD-ASK-AK Access Keys if needed. • Battery Life: 3 years (non-serviceable; key must be replaced)	$ 500.00

INSTALLATION / TUNING CHARGES		LIST
L-5002	NX-5200/5300/5400 Programming (with basic TX/RX check)	$ 37.50
L-5003	Install KWD-AE30K in NX-5000 series Portable (Must purchase module separately)	$ 75.00
L-5004	Install KWD-AE31K in NX-5000 series Portable (Must purchase module separately)	$ 75.00
L-5005	KPG-D1NK System Key File **Note**: Enables P25 Trunked system programming privileges in a KPG-D1NK. **- Restricted Purchase Requirements -** • 3-Digit HEX System ID (HSID) from SYSOP required • Must Purchase KPG-D1NK with L-5005 • Kenwood ships an encrypted *.SKF file on CD ROM • Non-SYSOP entities ordering L-5005 must provide verifiable written authorization from SYSOP to receive an *.SKF file. • The 16-digit Network Level License ID & 3-digit HEX HSID are securely encrypted & embedded in the *.SKF file.	$ 132.00

-- IMPORTANT NOTES regarding ENCRYPTION MODULES--

Encryption modules, key loaders and radios containing encryption are export controlled by the U.S. Department of Commerce Bureau of Industry & Security EAR regulations and may either require an Export License, are eligible for a License Exception (ENC) or are exportable with No License Required (NLR) depending on the country, the consignee and the intended use. High level encryption is a special commodity that may require an export license to most countries. See www.bis.gov for more information regarding export regulations. DO NOT SHIP encryption items outside the U.S. without proper DOC/BIS Export Licenses and/or compliances.

Kenwood may request the following information to be submitted at time of order (this information must meet Kenwood internal approvals prior to shipment even if being returned to Kenwood later:
a) Initial Destination: Initial delivery point if different from Ultimate Destination
(customer distribution center, headquarters, dealership, manufacturer's representative)
* Business/Agency Name:
* Address:
* Contact Person Name:
* Contact Phone:
b) Ultimate Destination: Final delivery point(s); deployment/distribution
* Business/Agency Name:
* Address:
* Contact Person Name:
* Contact Phone:
c) Intended Use of Radios: Law enforcement, security, operations, etc.

KWD-AE30 AES FIPS140-2 SCM , NIST Validation & Customer Shipping
A secure delivery method direct to the end user customer is required by the NIST AES FIPS 140-2 validation rules. For U.S. Federal Government entities the SCM must ship from Kenwood USA Corporation directly to the end user customer by a trusted carrier (FEDEX, UPS or a designated Kenwood USA Corporation employee); shipping/handling by a dealer or other entity is not acceptable. This may or may not be required by local/state government agencies or business/industrial users. Please check with the end use customer about their AES encryption handling requirements before ordering. Kenwood will not be responsible for shipments of KWD-AE30K modules to erroneous destinations specified on an order.

NEXEDGE™
P25

NX-5700/5800
VHF/UHF Digital & FM Analog Mobile Radios

STANDARD

■ GENERAL FEATURES

- 50 W (136-174 MHz) Models
- 45 W (380-470, 450-520 MHz) Models
- 1024 CH-GID / 128 Zones
- Full Color 2.55" (154 x 422 pixels) TFT Display
- Multi-line Text Display
- Function/Status Icons
- Multi-Language Display**
- Date & 12/24 Hour Time Clock
- Transmit/Busy/Call Alert/Warn LED
- Emergency/AUX Key
- 4W Speaker Audio
- DB-25 Accessory Connector
- Emergency Call Features
- Built-in GPS Receiver
- Built-in Bluetooth® Module
  for hands-free operation
- Built-in 56-bit DES Encryption **
- Active Noise Reduction (ANR)
- KPG-D1N Windows® FPU
- Flash Firmware Upgrading
- MIL-STD-810 C/D/E/F/G
- IP54/55

■ DIGITAL – NXDN® MODE

- NXDN® Conventional / TYPE-C Trunking
- AMBE+2™ VOCODER
- 6.25 & 12.5 kHz Channels
- Over-the-Air Alias
- Over-the-Air Programming
  (require KPG-180AP OTAP Manager Software **)
- Paging Call **
- Emergency Call
- All Group Call
- Status Messaging
- Remote Stun/Kill/Check
- Short & Long Data Messages
- GPS Location
- NXDN® Scrambler

■ ANALOG MODE

- Conventional Zones
- LTR® Zones **
- FleetSync®/II**: PTT ID ANI, Caller ID Display,
  Selective/Group Call, Emergency Status,
  Text Messages
- MDC-1200**: PTT ID ANI, Caller ID Display,
  Emergency, Radio Check & Inhibit
- QT / DQT
- Two-Tone** (Conventional Zones Only)
- DTMF**
- Built-in Voice Inversion Scrambler

All NX-5000 series Mobiles include:
- Standard Microphone (KMC-35)
- Mounting Bracket (KMB-33M)
- DC Cable (KCT-23M)
- Blade Fuse
- User Guide
- Premium Warranty: 3 Years*

* All Accessories / options: 1 Year

OPTIONAL

■ GENERAL FEATURES

- 4000 CH-GID / 128 Zones (KWD-5000CH License Key Activation required)
- Front Panel Programming (KWD-5001FP License Key Activation required)
- microSD/microSDHC Memory Card Slot (KWD-5002SD License Key Activation required)
- Built-in Bluetooth® Module for Data (KWD-5003BT** License Key Activation required)
- 256-bit AES Encryption (KWD-AE30K/31K Encryption Module required)

■ DIGITAL – P25 MODE

- Conventional Features (KWD-5100CV License Key Activation required)
- Phase 1 Trunking Features (KWD-5100CV & 5101TR License Keys Activation required)
- Phase 2 Trunking Features (KWD-5100CV & 5101TR & 5102TR License Keys Activation required)
- Conventional OTAR (KWD-5103RK License Key Activation required)
- Trunking OTAR (KWD-5103RK & 5106DT License Keys Activation required)
- Conventional Voting Scan (KWD-5105VT** License Key Activation required)
- Packet Data required for Trunked OTAR/GPS/Text (KWD-5106DT License Keys Activation required)

[Available in 2Q 2015]

■ MOUNTING CONFIGURATIONS / REMOTE PANEL **

- KCH-20R Featured Control Head
- Single Remote Control Head
  (KRK Kit & KCT-71 Cable required)
- Dual Remote Control Heads
  (KCH-19/20R & KRK Kit & KCT-71 Cables required)
- Multiple RF Decks
  (KRK Kit & KCT-71 Control Cable + KWD-5004MR
  License Key Activation required required)

RADIO		LIST
NX-5700K	VHF (136-174MHz), 50 Watts NXDN Conventional / TYPE-C Trunking	$ 980.00
NX-5800K	UHF (450-520MHz), 45 Watts NXDN Conventional / TYPE-C Trunking	$ 980.00
NX-5800K2	UHF (380-470MHz), 45 Watts NXDN Conventional / TYPE-C Trunking	$ 980.00

LICENSING SYSTEM	LIST

Note: KPT-300LMC is compatible with Windows Vista/7/8/8.1 Only. Windows XP is not supported.

KPT-300LMC
License Management Client

KPT-300LMC is a required software package that is used to authenticate **software** (FPU) and **radio feature license** keys for the NX-5000 Series radios.

KPT-300LMC is available as a free download from Kenwood Tools and is also supplied with applicable software, such as KPG-D1NK, KAS-12, and KPG-AE1/DE1.

NOTE: A license key is required for the KPT-300LMC to authenticate the software prior to use. To receive a license key, complete the enclosed "**Account Request Form**" and return to the Land Mobile Order Desk.

License Keys will be E-Mailed to the address provided on the Account Request Form. A hard copy will follow by mail for your records.

KPT-300LMC	License Management Client	NC
L-5000	KPT-300LMC License Key	NC

SOFTWARE LICENSE OPTIONS

TO PLACE AN ORDER FOR SOFTWARE (FPU):
1. *Complete the attached KPG-D1NK Software License Key Request Form.*
2. *Submit along with your PO to the Land Mobile Order Desk via:*
   a) *E-Mail: lmrorderdesk@us.jvckenwood.com*
   b) *Fax: (310) 761-8246*
3. *License Keys will be E-mailed to the address provided on the order form. A hard copy will follow by mail for your records.*

   * A unique license key is required for each PC with KPG-D1NK installed. A single license key will not authorize multiple PCs.

KPG-D1NK	License Key for KPG-D1NK Programming Software for NX-5000 Portable/Mobile (Windows® Vista/7/8/8.1)	$ 155.00

P25 Trunked Programming Capability (licensed by either 1 or 2 below):
1. KPG-D1NK with System Key File (*.SKF)- See L-5005
• For NX-5000 series radios.
• 3-digit HEX System ID (HSID) and verifiable written authorization required from trunked system operator (SYSOP).
• Purchase KPG-D1NK & L-5005 System Key File
• Kenwood ships an encrypted *.SKF file on CD ROM
• The *.SKF securely embeds/encrypts the 16-digit Network Level License ID & the HSID.
2. KPG-D1NK with Advanced System Keys (ASK's)
• For NX-5000 series radios.
• SYSOPs: Refer to KWD-ASK-MK Master Key
• Dealers/contractors: Refer to KWD-ASK-AK Access Key
• KPG-D1NK supports up to 16 KWD-ASK-AK Access Keys (16 trunked networks).

Software License Key Discount Structure

1 License Key	---
2~4 License Keys	**10% OFF**
5 ~ 14 License Keys	**35% OFF**
15~24 License Keys	**40% OFF**
25+ License Keys	**45% OFF**

RADIO FEATURE LICENSE OPTIONS

PCs registered under the same KPT-300LMC Account Registration Key (License Key) will be able to authentic Radio Features that can then be viewed / shared / managed by all registered users for the account.

*** TO PLACE AN ORDER FOR RADIO FEATURE LICENSES:**
1. **Complete the attached Radio Feature Request Form.**
2. **Submit the completed form along with your PO to the Land Mobile Order Desk via:**
    a) **E-Mail: lmrorderdesk@us.jvckenwood.com**
    b) **Fax: (310) 761-8246**
3. **License Keys will be E-mailed to the address provided on the request form. A hard copy will follow by mail for your records.**

Note: Radio Feature License Keys are not transferable from a radio to a radio. Once a Radio Feature License has been authenticated in one radio, it can not be transferred to another radio.

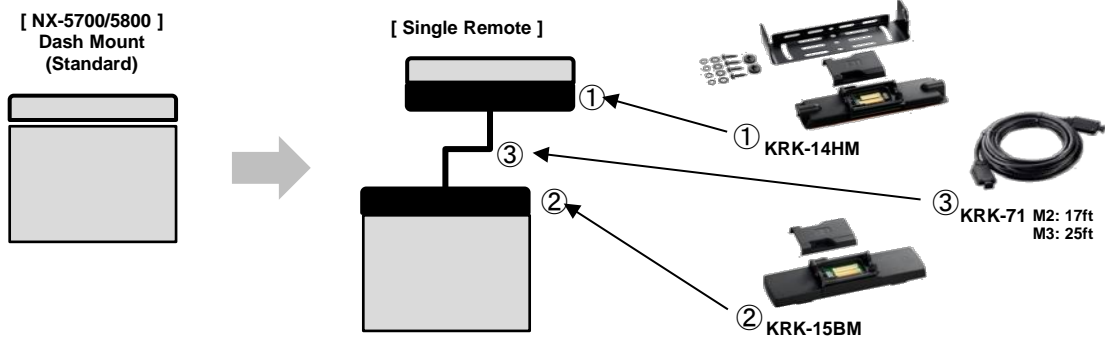| GENERAL RADIO FEATURES		LIST
KWD-5000CH	License Key for 4000 CH/GID Expansion	$ 420.00
KWD-5001FP	License Key for Front Panel Programming	$ 300.00
KWD-5002SD	License Key for microSD Memory Card Slot Activation	$ 105.00
KWD-5003BT	License Key for Bluetooth Serial Port Profile **[Available 2015 2Q]**	$ 35.00
KWD-5004MR	License Key for Multiple RF Decks Receiver **[Available 2015 2Q]**	*TBD*

P25 RADIO FEATURES		LIST
KWD-5100CV	License Key for P25 Conventional	$ 575.00
KWD-5101TR	License Key for P25 Phase 1 Trunking (requires KWD-5100CV)	$ 520.00
KWD-5102TR	License Key for P25 Phase 2 Trunking (requires KWD-5100CV & KWD-5101TR)	$ 400.00
KWD-5103RK	License Key for P25 OTAR (requires KWD-5106DT for a Trunking Operation)	$ 700.00
KWD-5105VT	License Key for P25 Conventional Voting Scan **[Available 2015 2Q]**	$ 120.00
KWD-5106DT	License Key for P25 Packet Data (requires for Trunked OTAR/GPS/Text)	$ 180.00

REMOTE CONTROL CONFIGURATION (Firmware Release 1.2 or Later is required)		LIST
KRK-14HM	Control Head Interface Kit for KCH-19M	159.00
KRK-15BM	Control Head Remote Kit for a RF Deck	50.00
KCT-71M2	Remote Control Cable (17 feet)	70.00
KCT-71M3	Remote Control Cable (25 feet)	80.00

MOBILE INSTALLATION ACCESSORIES		LIST
KAP-2	Horn Alert/P.A. Relay Option	63.00
KCT-23M	DC Cable (35-50W Dash mount; pos/neg. 10 ft. leads)	31.50
KCT-23M3	DC Cable (35-50W Remote mount; pos.23 ft.; neg. 3.3. ft. leads)	34.75
KCT-46	Ignition sense cable (plugs directly into mobile chassis ignition sense line)	13.70
KLF-2	Line Filter (suppresses alternator whine, 25dB, 25A max).	42.00
KMB-10	Key lock adapter	26.30
KMB-33M	Standard Mounting Bracket (same as supplied)	14.00
KPS-15	DC Switching Power Supply (117/230 VAC; 23A max. continuous, 25A peak)	173.00
KRA-40GM	GPS Antenna	42.00

MICROPHONES AND SPEAKERS		LIST
KMC-35	MIL-SPEC Standard electret mobile microphone (8-pin mod. plug) - same as supplied	52.50
KMC-36	MIL-SPEC Standard electret mobile microphone with 12 keypad (8-pin mod. plug)	94.50
KMC-9C	Control Station Desktop Microphone (8-pin mod. plug) **Note:** NOT compatible in a TDMA operation	86.00
KES-3	External speaker (compact low profile; black case; 3.5 mm phono plug-in)	44.25
KES-5	External speaker, 40W max input **Note:** requires KAP-2 (PA/HA unit) installed	61.25

ENCRYPTION MODULES		LIST
KWD-AE30K	AES FIPS140-2 & DES Encryption Module (Multi-Key) Order a Labor Code **L-5007** if installation is required. KWD-AE30K requires: a Motorola KVL3000 Plus/4000 key loader device. KWD-AE30K is an U.S. DOC/BIS Export Controlled Item (ECCN 5A002A.1)	$ 850.00
KWD-AE31K	AES & DES Encryption Module (Multi-Key) Order a Labor Code **L-5008** if installation is required. **Note**: Requires KPG-AE1/DE1 software key loader or Motorola KVL3000 Plus/4000 key loader device. KWD-AE31K is an U.S. DOC/BIS Export Controlled Item (ECCN 5A002A.1)	$ 550.00
KPG-AE1K	AES/DES Encryption Software Key Loader for KWD-AE31K **Authentication by KPT-300LMC is required** **Note**: KPG-AE1 is a U.S. DOC/BIS Export Controlled Item (ECCN 5D002A)	$ 525.00
KPG-DE1K	DES Encryption Software Key Loader for KWD-AE31K **Authentication by KPT-300LMC is required** **Note**: KPG-DE1 is a U.S. DOC/BIS Export Controlled Item (ECCN 5D992A.1)	$ 368.00

SERVICE RELATED ACCESSORIES		LIST
KPG-46UM	USB Programming interface cable	$ 158.50
KPG-115	Key Loader Interface Cable for Motorola KVL-3000/3000 Plus	$ 262.50
KPG-115AUT	KVL-4000 Radio Authentication Cable **[Available in 2015 1Q]**	*TBD*
KWD-ASK-AK	Access Key for KPG-D1NK P25 trunked programming **Notes:** • For NX-5000 series only • Must be activated by a SYSOP with KWD-ASK-MK Master Key • Must have KPG-D1NK • Battery Life: 3 years (non-serviceable; key must be replaced)	$ 208.00
KWD-ASK-MK	Master Key for activating KWD-ASK-AK Access Keys **- Restricted Purchase Requirements -** **Notes:** • For NX-5000 series only. • Sold to SYSOP or SYSOP authorized entities only • Must have KPG-D1NK • SYSOP must provide 3-digit HEX HSID & the 16-digit Network Level License ID to Kenwood. • Purchase KWD-ASK-AK Access Keys if needed. • Battery Life: 3 years (non-serviceable; key must be replaced)	$ 500.00

INSTALLATION / TUNING CHARGES		LIST
L-5006	NX-5700/5800 Programming (with basic TX/RX check)	$ 37.50
L-5007	Install KWD-AE30K in NX-5000 series Mobile (Must purchase module separately)	$ 75.00
L-5008	Install KWD-AE31K in NX-5000 series Mobile (Must purchase module separately)	$ 75.00
L-5005	KPG-D1NK System Key File **Note**: Enables P25 Trunked system programming privileges in a KPG-D1NK. **- Restricted Purchase Requirements -** • 3-Digit HEX System ID (HSID) from SYSOP required • Must Purchase KPG-D1NK with L-5005 • Kenwood ships an encrypted *.SKF file on CD ROM • Non-SYSOP entities ordering L-5005 must provide verifiable written authorization from SYSOP to receive an *.SKF file. • The 16-digit Network Level License ID & 3-digit HEX HSID are securely encrypted & embedded in the *.SKF file.	$ 132.00
L-5015	Install KAP-2 (Default) HR1/Internal Sp./PA	$ 25.00
L-5016	Assemble NX-5000 Mobile for Single Remote Head Control	$ 42.00
L-5020	KCT-71 Extended Control Head Cable (up to 50 ft. max.) **Note**: Please specify exact length at 1ft. increments when ordering. **Caution**: Extended control head cables exhibit a loss in speaker audio power to the control heads.	$ 190.00
L-5021	KCT-71 Extended Control Head Cable (up to 100 ft. max.) **Note**: Please specify exact length at 1ft. increments when ordering. **Caution**: Extended control head cables exhibit a loss in speaker audio power to the control heads.	$ 245.00

-- IMPORTANT NOTES regarding ENCRYPTION MODULES--

Encryption modules, key loaders and radios containing encryption are export controlled by the U.S. Department of Commerce Bureau of Industry & Security EAR regulations and may either require an Export License, are eligible for a License Exception (ENC) or are exportable with No License Required (NLR) depending on the country, the consignee and the intended use. High level encryption is a special commodity that may require an export license to most countries. See www.bis.gov for more information regarding export regulations. DO NOT SHIP encryption items outside the U.S. without proper DOC/BIS Export Licenses and/or compliances.

Kenwood may request the following information to be submitted at time of order (this information must meet Kenwood internal approvals prior to shipment even if being returned to Kenwood later:
a) Initial Destination: Initial delivery point if different from Ultimate Destination
(customer distribution center, headquarters, dealership, manufacturer's representative)
* Business/Agency Name:
* Address:
* Contact Person Name:
* Contact Phone:
b) Ultimate Destination: Final delivery point(s); deployment/distribution
* Business/Agency Name:
* Address:
* Contact Person Name:
* Contact Phone:
c) Intended Use of Radios: Law enforcement, security, operations, etc.

KWD-AE30 AES FIPS140-2 SCM , NIST Validation & Customer Shipping
A secure delivery method direct to the end user customer is required by the NIST AES FIPS 140-2 validation rules. For U.S. Federal Government entities the SCM must ship from Kenwood USA Corporation directly to the end user customer by a trusted carrier (FEDEX, UPS or a designated Kenwood USA Corporation employee); shipping/handling by a dealer or other entity is not acceptable. This may or may not be required by local/state government agencies or business/industrial users. Please check with the end use customer about their AES encryption handling requirements before ordering. Kenwood will not be responsible for shipments of KWD-AE30K modules to erroneous destinations specified on an order.

TK-5210G / 5310G
VHF/UHF FM Analog & P25 Digital Portable Radios

All 5X10G series portables include:
• Belt Clip (KBH-11)
• Universal Connector Cap
• Instruction Manual
• Premium Warranty: 3 Years*

* All Accessories / options: 1 Year

*Order packages to include Battery & Charger,
or purchase Battery, Charger, and Antenna separately.*

G models are Ver 3 Hardware (starting S/No. B03xxxxx)

Basic Model
No LCD display; no front panel keys
- TK-5210GK, TK-5310GK/GK4

Standard Model
16-Character Alphanumeric LCD
4 control keys
- TK-5210GK2/K7, TK-5310GK2/K5/K7

12 Keypad Model
16-Character Alphanumeric LCD
4 control keys
DTMF/Function keypad
- TK-5210GK3, TK-5310GK3/K6

GENERAL FEATURES
• 5 Watt (136-174 MHz)
• 4 Watt (450-520, 380-470 MHz)
• 100 Zones / 1024 Channels (K-K6)
• 32 Zones / 128 Channels (K7)
• Personality Lists
• Backlit Dot Matrix LCD
• 16 Character Alphanumeric Aliases
• 3-Digit Sub-Display
• Function / Status LCD Icons
• RSSI Indicator
• Transmit / Busy / Call Alert / Warn LED
• On/Off Volume Knob
• 16-Position Selector Knob
• 2-Position PF Lever Switch
• 3-Position PF Concentric Switch
• 4 Front Menu-Driven PF Keys
• 3 Side PF Keys
• Orange Emergency / AUX Key
• 12-Key DTMF / PF Keypad
• Enhanced Kenwood Audio
• Voice Annunciation
• VOX Ready
• Emergency Features
• Tactical Group
• Battery Level Indicator
• Transceiver Password
• Date & 12/24 Hour Time Clock
• Windows® Programming & Tuning
• Windows® Firmware Uploading
• Self-Programming & Tuning
• Cloning
• Easy Option Port
• Voice Guide & Storage (Option)
• Weather-Sealed Accessory Connector
• MIL-STD-810 C/D/E/F/G
• IP54/55 Water & Dust Protection
• Immersion (IP66/67/68) Option
• Intrinsically Safe Option*

P25 DIGITAL
• P25 Digital Conventional
• P25 Digital Trunking Option
• AMBE+2TM Enhanced VOCODER
• Talk Group ID Lists
• Individual ID Lists
• Caller ID Display
• Remote Monitor/Remote Check
• Radio Inhibit
• Encryption Key Delete
• Encryption Key Zeroize Option
• Encryption Key Retention Option
• DES Encryption Options
• AES / DES Encryption Options
• KPG-93 KVL Key Loader Interface Cable
• P25 GPS Location
• P25 OTAR Option

SCAN TYPES (FM & P25)
• Single Zone/Multi-Zone Scan
• Scan Lists
• Conventional Scan
• Limited Talk Group Scan
• Priority Monitor Scan
• Dual Priority Scan

FM
• QT / DQT
• Operator Selectable Tone
• Two-Tone Encode / Decode
• DTMF Encode / Decode / Stun
• Special Alert Tone Patterns
• Encryption / ANI Board Control
• Companded Audio
• FleetSync® /II PTT ID / Caller ID Display / Emergency
• MDC-1200 PTT ID / Caller ID Display / Emergency

* Approved for Classes I, II & III, Div. 1, Groups D, E, F, G and are also approved for non-Incindive use in Class I, Div. 2, Groups A, B, C, D hazardous locations.
Note: Class I, Div 2 Group A & B Gases require use of a portable carrying case.

PACKAGES		*LIST*
TK-5210GK2-NKP	VHF NiMH Battery Package (TK-5210GK2 + KNB-54N + KSC-32 + KBH-11)	1,755.00
TK-5210GK2-LKP	VHF Li-Ion Battery Package (TK-5210GK2 + KNB-43L + KSC-32 + KBH-11)	1,831.00
TK-5310GK2-NKP	UHF NiMH Battery Package (TK-5310GK2 + KNB-54N + KSC-32 + KBH-11)	1,755.00
TK-5310GK2-LKP	UHF Li-Ion Battery Package (TK-5310GK2 + KNB-43L + KSC-32 + KBH-11)	1,831.00

RADIO		*LIST*
TK-5210GK	136-174MHz 5W, 1024 CH, Basic Model **[see note 1]**	1,225.00
TK-5210GK2	136-174MHz 5W, 1024 CH, Standard Model	1,598.00
TK-5210GK3	136-174MHz 5W, 1024 CH, 12 Keypad Model	1,757.00
TK-5210GK7	136-174MHz 5W, 128 CH, Standard Model **[see note 1]**	1,400.00
TK-5310GK	450-520 MHz 4W, 1024 CH, Basic Model **[see note 1]**	1,225.00
TK-5310GK2	450-520 MHz 4W, 1024 CH, Standard Model	1,598.00
TK-5310GK3	450-520 MHz 4W, 1024 CH, 12 Keypad Model	1,757.00
TK-5310GK4	380-470 MHz 4W, 1024 CH, Basic Model **[see note 1]**	1,225.00
TK-5310GK5	380-470 MHz 4W, 1024 CH, Standard Model	1,598.00
TK-5310GK6	380-470 MHz 4W, 1024 CH, 12 Keypad Model	1,757.00
TK-5310GK7	380-470 MHz 4W, 128 CH, Standard Model **[see note 1]**	1,400.00

RADIO (Special Color Housing)		*LIST*
TK-5210GK2YH	136-174MHz 5W, 1024 CH, Standard Model (w/ Yellow Housing) **[see note 1]**	1,724.00
TK-5210GK2OH	136-174MHz 5W, 1024 CH, Standard Model (w/ Orange Housing) **[see note 1]**	1,724.00
TK-5310GK2YH	450-520 MHz 4W, 1024 CH, Standard Model (w/ Yellow Housing) **[see note 1]**	1,724.00
TK-5310GK2OH	450-520 MHz 4W, 1024 CH, Standard Model (w/ Orange Housing) **[see note 1]**	1,724.00
TK-5310GK5YH	380-470 MHz 4W, 1024 CH, Standard Model (w/ Yellow Housing) **[see note 1]**	1,724.00
TK-5310GK5OH	380-470 MHz 4W, 1024 CH, Standard Model (w/ Orange Housing) **[see note 1]**	1,724.00

FACTORY MUTUAL (FM) APPROVED MODELS		*LIST*
	Must Order L-986 & an Intrinsically Safe Battery per radio	
TK-5210-ISGK	136-174MHz 5W, 1024 CH, Basic Model **[see note 1]**	1,225.00
TK-5210-ISGK2	136-174MHz 5W, 1024 CH, Standard Model	1,598.00
TK-5210-ISGK2-YH	136-174MHz 5W, 1024 CH, Standard Model (w/ Yellow Housing) **[see note 1]**	1,724.00
TK-5210-ISGK2-OH	136-174MHz 5W, 1024 CH, Standard Model (w/ Orange Housing) **[see note 1]**	1,724.00
TK-5210-ISGK3	136-174MHz 5W, 1024 CH, 12 Keypad Model	1,757.00
TK-5210-ISGK7	136-174MHz 5W, 128 CH, Standard Model **[see note 1]**	1,400.00
TK-5310-ISGK	450-520 MHz 4W, 1024 CH, Basic Model **[see note 1]**	1,225.00
TK-5310-ISGK2	450-520 MHz 4W, 1024 CH, Standard Model	1,598.00
TK-5310-ISGK2-YH	450-520 MHz 4W, 1024 CH, Standard Model (w/ Yellow Housing) **[see note 1]**	1,724.00
TK-5310-ISGK2-OH	450-520 MHz 4W, 1024 CH, Standard Model (w/ Orange Housing) **[see note 1]**	1,724.00
TK-5310-ISGK3	450-520 MHz 4W, 1024 CH, 12 Keypad Model	1,757.00
TK-5310-ISGK4	380-470 MHz 4W, 1024 CH, Basic Model **[see note 1]**	1,225.00
TK-5310-ISGK5	380-470 MHz 4W, 1024 CH, Standard Model	1,598.00
TK-5310-ISGK5-YH	380-470 MHz 4W, 1024 CH, Standard Model (w/ Yellow Housing) **[see note 1]**	1,724.00
TK-5310-ISGK5-OH	380-470 MHz 4W, 1024 CH, Standard Model (w/ Orange Housing) **[see note 1]**	1,724.00
TK-5310-ISGK6	380-470 MHz 4W, 1024 CH, 12 Keypad Model	1,757.00
TK-5310-ISGK7	380-470 MHz 4W, 128 CH, Standard Model **[see note 1]**	1,400.00

[note 1]: these models are stocked in minimum quantities. Please anticipate a minimum 90-day lead time and call order desk to verify availability.

ANTENNAS		*LIST*
KRA-26M	VHF helical antenna 146-162 MHz	14.00
KRA-26M2	VHF helical antenna 162-174 MHz	14.00
KRA-26M3	VHF helical antenna 136-150 MHz	14.00
KRA-27M	UHF whip antenna 440-490 MHz	14.00
KRA-27M2	UHF whip antenna 470-520 MHz	14.00
KRA-27M3	UHF whip antenna 400-450 MHz	14.00

ANTENNAS - CONT'D

		LIST
KRA-22M	VHF low-profile helical antenna 148-162 MHz	13.70
KRA-22M2	VHF low-profile helical antenna 162-174 MHz	13.70
KRA-22M3	VHF Low-profile helical antenna 136-150 MHz	13.70
KRA-23M	UHF low-profile helical antenna 450-490 MHz	13.70
KRA-23M2	UHF low-profile helical antenna 470-512 MHz	13.70
KRA-23M3	UHF low-profile helical antenna 403-430 MHz	13.70
KRA-16M	VHF stubby antenna 148-162 MHz	13.70
KRA-16M2	VHF stubby antenna 162-174 MHz	13.70
KRA-16M3	VHF stubby antenna 136-150 MHz	13.70
KRA-17M	UHF stubby antenna 450-490 MHz	13.70
KRA-17M2	UHF stubby antenna 470-512 MHz	13.70
KRA-17M3	UHF stubby antenna 403-430 MHz	13.70
KRA-25	High gain VHF helically loaded whip antenna 148-162 MHz	34.25
KRA-28	Broad-band VHF helically loaded whip antenna 140-170 MHz	42.00
KRA-29	Broad Band UHF Whip Antenna 380-430 MHz	36.75

BATTERIES AND CHARGERS

		LIST
KNB-54N	2500 mAh, Ni-MH battery - requires KSC-32/326K charger **[Immersion Option compatible]**	87.50
KNB-33L	2000 mAh, Li-ion battery - requires KSC-32/326K charger **[Immersion Option compatible]**	105.00
KNB-41NC-FM	2500 mAh, Ni-MH battery - requires KSC-32/326K charger **[FM Intrinsically Safe Option]**	136.50
KNB-43L	3300 mAh, Li-Polymer battery - requires KSC-32/326K charger	163.00
KNB-49PL	4500 mAh, Primary Lithium battery **Note**: **Non-Rechargeable** (please recycle all batteries properly) 10 year Shelf Life (approx. 1% charge degradation per year when properly stored: +50 ℉ to +86 ℉ @ less than 70% humidity	84.00
KBP-6	AA Alkaline Refillable Battery Pack (6 AA; 9V) cells not included **Note:** the color of the case is orange	68.50
KSC-32	Rapid rate single unit charger for KNB-31A/32N/33L/41NC/43L/47L/48L/50NC **Note:** Includes 110/220V auto-switching AC adapter with U.S.-style line cord plug; requires plug adapter for 220V Euro-style outlets (not supplied).	70.00
KSC-326K	Rapid rate 6-unit charger for KNB-31A/32N/33L/41NC/43L/47L/48L/50NC	630.00
KMB-30M	Wall Mount Bracket for KSC-326K/256K	33.75
KMB-23	Six Unit Charger Adapter for the KSC-16/20/24/25/25L/32 chargers (chargers not included)	191.00
KVC-15	Rapid rate DC vehicular charger adapter for the KSC-32 (chargers not included; includes KSC-mobile bracket & cigarette lighter cable DC adapter)	119.00
KVC-18	Vehicular D.C. Charger for 180/5*10 Portables with NiCd or NiMH Battery	446.50
KVC-20L	Vehicular D.C. Charger for 180/5**0/, NX Portables with Li-ion or Li Polymer Battery	497.00

CARRYING ACCESSORIES

		LIST
KBH-11	Spring action belt clip (2.5")	14.70
KBH-8DS	Leather swivel belt loop with portable D-Ring attachment	26.30
KLH-6SW	Leather swivel belt loop / detachable swivel D-Ring back	22.00
KLH-133K	Heavy duty leather carrying case for TK-5*10 Basic Models	44.25
KLH-133K2	Heavy duty leather carrying case for TK-5*10 Standard Models	44.25
KLH-133K3	Heavy duty leather carrying case for TK-5*10 12 Keypad Models	44.25
KLH-134K	Cordura Nylon carrying case for TK-5*10 Basic Models	26.30
KLH-134K2	Cordura Nylon carrying case for TK-5*10 Standard Models	26.30
KLH-134K3	Cordura Nylon carrying case for TK-5*10 12 Keypad Models	26.30
KLH-137ST	Firemen's Heavy-Duty Leather Shoulder Strap for a Heavy-Duty Leather Case (KLH-75B/76B/78B/79B//92/122/123/133/148/154)	36.75

MICROPHONES & AUDIO ACCESSORIES		LIST
KMC-51M	MIL-SPEC, IP54/55 DSP Digital Noise-canceling Speaker Mic	250.00
KMC-52W	MIL-SPEC, **IP67 (Immersion)** DSP Digital Noise-canceling Speaker Mic	300.00
	[note 2]: To adjust microphone settings different from factory default, download KPG-147NC configuration software and special configuration firmware from Kenwood Tools (no charge).	
KMC-47GPS	GPS Speaker Microphone	290.00
KMC-41M	MIL-SPEC, IP54/55 Noise-canceling Speaker Mic **[Intrinsically Safe Approved Accessory]**	96.50
KMC-42WM	MIL-SPEC, **IP67 (Immersion)** Noise-canceling Speaker Mic **[Intrinsically Safe Approved Accessory] [MSHA Approved Accessory]**	114.00
KMC-26	MIL-SPEC, Noise canceling Speaker mic w/Antenna Connector (ant. not incl.) **[Intrinsically Safe Approved Accessory] [MSHA Approved Accessory]**	115.50
KMC-49	MIL-SPEC, Speaker Mic. with Antenna Connector **[Intrinsically Safe Approved Accessory]** **Note:** 5/16" Coax cable hex wrench included (antenna is not included).	250.00
KEP-1	3.5mm earphone kit for KMC-25/26/41M/42WM Speaker Mics **[Intrinsically Safe Approved Accessory] [MSHA Approved Accessory]**	52.50
KEP-3	30" Earphone kit w/ 2.5mm plug for KCT-30 **[Intrinsically Safe Approved Accessory] [MSHA Approved Accessory]**	51.50
KEP-4	48" Earphone kit w/ 2.5mm plug for KCT-30 **[Intrinsically Safe Approved Accessory]**	54.75
KCT-30	2.5mm Audio Accessory Adapter for KEP-3/4 **[Intrinsically Safe Approved Accessory]**	64.00
KCT-51	Hirose 6-pin Adapter (adapts KVL/aftermarket audio acc. to portable connector)	215.00
KHS-11BE	2-wire palm mic w/earphone, universal connector (Beige) **[Intrinsically Safe Approved Accessory]**	156.50
KHS-11BL	2-wire palm mic w/earphone, universal connector (Black) **[Intrinsically Safe Approved Accessory]**	156.50
KHS-12BE	3-wire mini lapel mic w/earphone, universal connector (Beige) **[Intrinsically Safe Approved Accessory]**	184.00
KHS-12BL	3-wire mini lapel mic w/earphone, universal connector (Black) **[Intrinsically Safe Approved Accessory]**	184.00
KHS-14	Lt. Wt. Single muff headset w/boom mic & In-line PTT **[Intrinsically Safe Approved Accessory]**	126.00
KHS-15-BH	Hvy-duty noise reduction behind-the-headset w/noise cancelling boom mic & in-line PTT **[Intrinsically Safe Approved Accessory] [MSHA Approved Accessory]**	420.00
KHS-15-OH	Hvy-duty noise reduction over-the-headset w/noise cancelling boom mic & in-line PTT **[Intrinsically Safe Approved Accessory] [MSHA Approved Accessory]**	368.00

ENVIRONMENTAL SPEC. OPTIONS		LIST
KWD-IM10	IP 66/67/68 Immersion Option Kit* Must Order L-987 Note: Initial Installation Kenwood Long Beach Tuning Dept. only. To maintain immersion certification, re-certification is required every 2 years available at Kenwood Authorized Service Centers only. Call an ASC for return procedure ($315.00 List Price) IP 66 (Dust & Water Jet Intrusion), IP 67 (Immersion in 3.3 ft. (1m) depth @ 30 mins), IP 68 (Immersion in 3.3 ft. (1m) depth @ 2 hours)	368.00

FIRMWARE OPTIONS | LIST

KWD-RK20	OTAR Option for KWD-AE20K Encryption Module in TK-5x10 series (OTAR in P25 Conventional & Trunked Modes) • **Requires KWD-AE20K module.** • **L-1108** (for portable) & **L-1109** (for mobile) Installation (no charge) • **L-1733** (for portable) & **L-1734** (for mobile) Field Upgrade Option **Note:** • Supports OTAR in P25 Conventional & Trunked modes (Not compatible with GK7 64 CH Model) • Compatible with Motorola KMF P25 OTAR (excludes Motorola-proprietary non-TIA/P25 KMF features) • Requires KPG-95D/DG(N) V7.10 or later for radio programming • TK-5x10 VER2: Requires KPG-95D V5.40 or later for radio programming • TK-5410/5910: Requires KPG-95D V6.00 or later for radio programming • TK-5x10G: Requires KPG-95DG(N) for radio programming • TK-5x10 VER2: Option deletes self-programming, cloning and analog FleetSync® (except PTT ID/Emergency) when installed. KWD-RK20 is an U.S. DOC/BIS Export Controlled Item (ECCN 5D002A) **- See IMPORTANT NOTES -**	830.00
KWD-TR20	Trunking Option for TK-5210/5310/5210G/5310G, TK-5710/5810/5710G/5810G KWD-TR20 supoort:16 Trunking Network Must order **L-1055** for factory installation, or **L-1067** for field-upgrade option **Note**: KPG-95D/95DG(N) Requires Network Level License ID to program trunked network radio parameters (see KPG-95D/95DG(N) for purchase restrictions & requirements) Compatible with TK-5210 Version 2 (SN 80600001 or later); TK-5310 (SN 809xxxxx or later); TK-5710 Version 2 (SN806xxxxx); TK-5810 (SN 809xxxxx or later); All TK-5x10G Series are compatible	334.00

SOFTWARE OPTIONS | LIST

KPG-113AE	AES/DES Encryption Software Key Loader for KWD-DE21K/KWD-AE21K Loads AES & DES keys on capable encryption modules **Note**: KPG-113AE is a U.S. DOC/BIS Export Controlled Item (ECCN 5D002A) **- See IMPORTANT NOTES -**	525.00
KPG-114DE	DES Encryption Software Key Loader for KWD-DE21K/KWD-AE21K Loads DES keys only regardless of encryption module model **Note**: KPG-114DE is a U.S. DOC/BIS Export Controlled Item (ECCN 5D992A.1) **- See IMPORTANT NOTES -**	368.00

OPTION MODULES | LIST

KCT-48VU	External Vibration Unit **[Intrinsically Safe Approved Accessory]** **Note:** Audio accessories cannot be used when this option installed. KCT-48VU does not support the P25 digital mode calling or paging features	49.00
KCT-57MS	Man-Down Internal Tilt Switch (Non-Mercury) **[Intrinsically Safe Approved Accessory]**- Must be Kenwood installed for I.S. Order **L-1613** for CIM-1000, K-20, K-26 & **L-1614** for FleetSync®/P25 Emergency operations	22.00
KWD-AE20K	AES FIPS140-2 & DES Encryption Module for TK-5x10, TK-5x10G & TK-5x20 Portables & Mobiles (except K7 Portable) [KWD-AE20K support] - Advanced Encryption Standard (AES): 256-bit symmetric key algorithm; NIST validated per FIPS140-2 - Data Encryption Standard (DES): 56-bit symmetric key algorithm. - 16 Multi-key List (user-selectable / per Personality programming) - Stores: 1024 keys & 1024 Common Key References (CKR) - Must order KWD-RK20 for OTAR capability **[Intrinsically Safe Approved Accessory]** - Order **L-1236** if installation is required. - KWD-AE20K requires: a Motorola KVL3000/+ & KVL-4000 Key Fill Devices and KMF P25 OTAR (excludes Motorola-proprietary non-TIA/P25 KMF features). F/W VA2.0.3 or later supports the KVL4000. - KWD-AE20K is an U.S. DOC/BIS Export Controlled Item (ECCN 5A002A.1) **- See IMPORTANT NOTES -**	998.00

OPTION MODULES - CONT'D		LIST
KWD-AE21K	AES & DES Encryption Module for TK-5x10, TK-5x10G & TK-5x20 Portables & Mobiles (except K7 Portable) [KWD-AE20K support] - Advanced Encryption Standard (AES): 256-bit symmetric key algorithm; - Data Encryption Standard (DES): 56-bit symmetric key algorithm. - 16 Multi-key List (user-selectable / per Personality programming) - Stores: 1024 keys & 1024 Common Key References (CKR) **[Intrinsically Safe Approved Accessory]** - Order <u>L-1237</u> if installation is required. **Note**: Requires KPG-113AE software key loader or Motorola KVL3000 Plus key loader device. KWD-AE21K is an U.S. DOC/BIS Export Controlled Item (ECCN 5A002A.1) **- See IMPORTANT NOTES -**	998.00
KWD-DE21K	DES Encryption Module for TK-5x10, TK-5x10G & TK-5x20 Portables & Mobiles [KWD-DE21K support] - Data Encryption Standard (DES): 56-bit symmetric key algorithm - 16 Multi-key List (user-selectable / per Personality programming) - Stores: 1024 keys & 1024 Common Key References (CKR) **[Intrinsically Safe Approved Accessory]** - Order <u>L-1560</u> if installation is required **Note**: Requires KPG-114DE or KPG-113AE software key loader or Motorola KVL3000 Plus key loader device. KWD-DE21K is a U.S. DOC/BIS Export Controlled Item (ECCN 5A992A) **- See IMPORTANT NOTES -**	578.00
VGS-1	Voice Guide and Storage Unit **[Intrinsically Safe Approved Accessory]**	87.50

SERVICE RELATED ACCESSORIES		LIST
KPG-36UM	USB Programming interface cable	158.50
KPG-93	KVL-3000/3000 Plus Interface Cable for TK-5x10, TK-5x10G & TK-5x20 Portables	262.50
KPG-95DGNK	Windows® Programming Software for TK-5x10 & TK-5x10G Portables & Mobiles (Compliant with FCC Part 90 Narrowbanding) **Note:** Self-programming function is not available. **Analog & P25 Conventional Programming** A "Dealer-Level" License ID is included with each KPG-95DG(N)K which only permits full analog conventional and P25 conventional programming. Data files created with a "Network-Level Licensed" KPG-95DG(N)K and containing P25 programmed P25 trunked network parameters can be loaded and viewed with a Dealer-Level Licensed KPG-95DG(N)K, but the trunked network parameters cannot be changed. **P25 Trunked Programming Capability (licensed by either 1 or 2 below):** **1. KPG-95DG(N)K with System Key File (*.SKF)-** <u>See L-989</u> • For all TK-5x10 radio platforms (VER1, 2, 3 or later). • 3-digit HEX System ID (HSID) and verifiable written authorization required from trunked system operator (SYSOP). • Purchase KPG-95DG(N)K & L-989 Network-Level License ID • Kenwood ships an encrypted *.SKF file on CD ROM • The *.SKF securely embeds/encrypts the 16-digit Network Level License ID & the HSID. **2. KPG-95DG(N)K with Advanced Network Keys (ANK's)** • For TK-5x10G/5410/5910 VER 3 or later radio platforms only. • SYSOPs: Refer to KWD-ANK-MK Master Key • Dealers/contractors: Refer to KWD-ANK-AK Access Key • KPG-95DG(N)K (V7.0 or later) supports up to 16 KWD-ANK-AK Access Keys (16 trunked networks).	628.00
KWD-ANK-AK	Access Key for KPG-95DG(N)K P25 trunked programming **Notes:** • For TK-5x10G/5410/5910 VER 3 or later radio platforms only • Must be activated by a SYSOP with KWD-ANK-MK Master Key. • Must have KPG-95DG(N)K (V7.0 or later); L-989 is NOT required. • Battery Life: 3 years (non-serviceable; key must be replaced)	208.00
KWD-ANK-MK	Master Key for activating KWD-ANK-AK Access Keys **- Restricted Purchase Requirements -** **Notes:** • For TK-5x10G/5410/5910 VER 3 or later radio platforms only. • Sold to SYSOP or SYSOP authorized entities only • Must have KPG-95DG(N)K (V7.0 or later) with L-989 Network-Level License ID • SYSOP must provide 3-digit HEX HSID to Kenwood. • Purchase KWD-ANK-AK Access Keys if needed. • Battery Life: 3 years (non-serviceable; key must be replaced)	500.00

INSTALLATION / TUNING CHARGES *LIST*

L-961	Assemble KMB-23 with six KSC-32K's (Rapid Rate, 120 Volt version only)	17.00
L-986	Configure TK-5x10-IS & TK-5x10-ISG for Intrinsically Safe **Must order an I.S. battery, KNB-41NC-FM**	100.00
L-987	Immersion Option Certification (Must purchase Immersion Option Kit, KWD-IM10 separately)	N/C
L-989	KPG-95D/95DG(N) Network Level ID (encrypted data file)	132.00
L-990	TK-5x10 & TK-5x10G Portable Programming (Basic TX/RX check only with factory test freq.s or dealer/customer provided KPG-95D/95DG(N) data file)	125.00
L-1055	Install KWD-TR20 Trunking Option in TK-5210/5310/5210G/5310G (Must purchase KWD-TR20K separately)	N/C
L-1067	TK-5210/5310 KWD-TR20 FIELD-UPGRADE (Must purchase KWD-TR20 separately)	42.00
L-1108	Install KWD-RK20 OTAR Option in TK-5x10 & TK-5x10G Series (Must purchase KWD-RK20 separately)	N/C
L-1236	Install KWD-AE20K in TK-5x10 & TK-5x10G Series Portables (Must purchase module separately)	75.00
L-1237	Install KWD-AE21K in TK-5x10 & TK-5x10G Series Portables (Must purchase module separately)	75.00
L-1559	Install KWD-DE20K in TK-5x10 & TK-5x10G Series Portables (Must purchase module separately)	75.00
L-1560	Install KWD-DE21K in TK-5x10 & TK-5x10G Series Portables (Must purchase module separately)	75.00
L-1614	TK-5x10 & TK-5x10G Series Portable KCT-57MS Installation (for P25/FleetSync®)	20.00
L-1733	KWD-RK20 Field Upgrade Option for TK-5x10/5x10G/5410 (Must purchase KWD-RK20 separately)	42.00

-- IMPORTANT NOTES --
Encryption modules, key loaders and radios containing encryption are export controlled by the U.S. Department of Commerce Bureau of Industry & Security EAR regulations and may either require an Export License, are eligible for a License Exception (ENC) or are exportable with No License Required (NLR) depending on the country, the consignee and the intended use. High level encryption is a special commodity that may require an export license to most countries. See www.bis.gov for more information regarding export regulations. DO NOT SHIP encryption items outside the U.S. without proper DOC/BIS Export Licenses and/or compliances.

Kenwood may request the following information to be submitted at time of order (this information must meet Kenwood internal approvals prior to shipment even if being returned to Kenwood later:

a) Initial Destination: Initial delivery point if different from Ultimate Destination
(customer distribution center, headquarters, dealership, manufacturer's representative)
* Business/Agency Name:
* Address:
* Contact Person Name:
* Contact Phone:
b) Ultimate Destination: Final delivery point(s); deployment/distribution
* Business/Agency Name:
* Address:
* Contact Person Name:
* Contact Phone:
c) Intended Use of Radios: Law enforcement, security, operations, etc.

KWD-AE20 AES FIPS140-2 SCM , NIST Validation & Customer Shipping
A secure delivery method direct to the end user customer is required by the NIST AES FIPS 140-2 validation rules. For U.S. Federal Government entities the SCM must ship from Kenwood USA Corporation directly to the end user customer by a trusted carrier (FEDEX, UPS or a designated Kenwood USA Corporation employee); shipping/handling by a dealer or other entity is not acceptable. This may or may not be required by local/state government agencies or business/industrial users. Please check with the end use customer about their AES encryption handling requirements before ordering. Kenwood will not be responsible for shipments of KWD-AE20K modules to erroneous destinations specified on an order.

TK-5410
700/800 MHz FM Analog & P25 Digital Portable Radio

All 5410 series portables include:
• Belt Clip (KBH-11)
• Universal Connector Cap
• Instruction Manual
• Premium Warranty: 3 Years*

* All Accessories / options: 1 Year

*Order packages to include Battery, Charger & Antenna,
or purchase Battery, Charger, and Antenna separately.*

Standard Model
16-Character Alphanumeric LCD
4 control keys

12 Keypad Model
16-Character Alphanumeric LCD
4 control keys
DTMF/Function keypad

GENERAL FEATURES
• 3 Watt
• 100 Zones / 1024 Channels
• 12-Key Keypad Model
• Personality Lists
• Backlit Dot Matrix LCD
• 16 Character Alphanumeric Aliases
• 3-Digit Sub-Display
• Function / Status LCD Icons
• RSSI Indicator
• Transmit / Busy / Call Alert / Warn LED
• On/Off Volume Knob
• 16-Position Selector Knob
• 2-Position PF Lever Switch
• 3-Position PF Concentric Switch
• 4 Front Menu-Driven PF Keys
• 3 Side PF Keys
• Orange Emergency / AUX Key
• Zone / Ch Voice Announce
• VOX Ready
• Emergency Features
• Battery Level
• Transceiver Password
• Date & 12/24 Hour Time Clock
• Windows® Programming & Tuning
• Windows® Firmware Uploading
• Voice Guide & Storage (option)
• Weather-Sealed Accessory Connector
• MIL-STD-810 C/D/E/F/G
• IP54/55 Water & Dust Protection
• Immersion (IP66/67/68) Option
• Intrinsically Safe Option

P25 DIGITAL
• P25 Digital Conventional
• P25 Digital Trunking
• AMBE+2™ Enhanced VOCODER
• Talk Group ID Lists
• Individual ID Lists
• Caller ID Display
• Remote Monitor / Check, Radio Inhibit
• Encryption Key Zeroize & Retention
• DES Encryption Option
• AES & DES Encryption Options
• KPG-36AM Radio Program/Soft-Key Loader Cable
• KPG-93 KVL Device Key Loader Cable
• P25 GPS Location
• P25 OTAR Option

SCAN TYPES (FM & P25)
• Single Zone/Multi-Zone Scan
• Scan Lists
• Conventional Scan
• Limited Talk Group Scan
• Priority Monitor Scan
• Dual Priority Scan

FM
• QT / DQT
• Operator Selectable Tone
• DTMF Encode
• Companded Audio
• NPSPAC Channels

* Approved for Classes I, II & III, Div. 1, Groups D, E, F, G and are also approved for non-Incendive use in Class I, Div. 2, Groups A, B, C, D hazardous locations.
Note: Class I, Div 2 Group A & B Gases require use of a portable carrying case.

PACKAGES		LIST
TK-5410K2-NKP	NiMH Battery Package (TK-5410K2 + KNB-54N + KSC-32 + KBH-11+KRA-32K)	1,851.50
TK-5410K2-LKP	Li-Polymer Package (TK-5410K2 + KNB-43L + KSC-32 + KBH-11+KRA-32K)	1,927.00
TK-5410K3-NKP	NiMH Battery Package (TK-5410K3 + KNB-54N + KSC-32 + KBH-11+KRA-32K)	2,009.50
TK-5410K3-LKP	Li-Polymer Package (TK-5410K3 + KNB-43L + KSC-32 + KBH-11+KRA-32K)	2,085.00

RADIO		LIST
TK-5410K2	700/800 MHz 3W, 1024 CH, Standard Model	1,659.00
TK-5410K3	700/800 MHz 3W, 1024 CH, 12 Keypad Model	1,817.00

RADIO		LIST
TK-5410K2-YH	700/800 MHz 3W, 1024 CH, Standard Model (w/ Yellow Housing) [see note 1]	1,784.00
TK-5410K2-OH	700/800 MHz 3W, 1024 CH, 12 Keypad Model (w/ Orange Housing) [see note 1]	1,784.00

[Note 1]: These models are stocked in minimum quantities. Please anticipate a 90-day lead time. Contact the order desk to verify availability.

FACTORY MUTUAL (FM) APPROVED MODELS		*LIST*
	Must Order L-986 & an Intrinsically Safe Battery per radio	
TK-5410-ISK2	700/800 MHz 3W, 1024 CH, Standard Model	1,659.00
TK-5410-ISK3	700/800 MHz 3W, 1024 CH, 12 Keypad Model	1,817.00

ANTENNAS		*LIST*
KRA-32K	700/800 MHz Whip Antenna	35.00
KRA-36	700/800 MHz Stubby Antenna	25.00

BATTERIES AND CHARGERS		*LIST*
KNB-54N	2500 mAh, Ni-MH battery - requires KSC-32/326K charger **[Immersion Option compatible]**	87.50
KNB-33L	2000 mAh, Li-ion battery - requires KSC-32/326K charger	105.00
KNB-41NC-FM	2500 mAh, Ni-MH battery - requires KSC-32/326K charger **[FM Intrinsically Safe Option] [Immersion Option compatible]**	136.50
KNB-43L	3300 mAh, Li-Polymer battery - requires KSC-32/326K charger	163.00
KNB-49PL	4500 mAh, Primary Lithium battery **Note**: **Non-Rechargeable** (please recycle all batteries properly) 10 year Shelf Life (approx. 1% charge degradation per year when properly stored: +50 ℉ to +86 ℉ @ less than 70% humidity	84.00
KBP-6	AA Alkaline Refillable Battery Pack (6 AA; 9V) cells not included **Note:** the color of the case is orange	68.50
KSC-32	Rapid rate single unit charger for KNB-31A/32N/33L/41NC/43L/47L/48L/50NC/54N **Note:** Includes 110/220V auto-switching AC adapter with U.S.-style line cord plug; requires plug adapter for 220V Euro-style outlets (not supplied).	70.00
KSC-326K	Rapid rate 6-unit charger for KNB-31A/32N/33L/41NC/43L/47L/48L/50NC/54N	630.00
KMB-30M	Wall Mount Bracket for KSC-326K/256K	33.75
KMB-23	Six Unit Charger Adapter for the KSC-16/20/24/25/25L/32 chargers (chargers not included)	191.00
KVC-15	Rapid rate DC vehicular charger adapter for the KSC-32 (chargers not included; includes KSC-mobile bracket & cigarette lighter cable DC adapter)	119.00
KVC-18	Vehicular D.C. Charger for 180/5*10 Portables with NiCd or NiMH Battery	446.50
KVC-20L	Vehicular D.C. Charger for 180/5**0/, NX Portables with Li-ion or Li Polymer Battery	497.00

CARRYING ACCESSORIES		*LIST*
KBH-11	Spring action belt clip (2.5")	14.70
KBH-8DS	Leather belt loop with D-Ring receptacle and D-Ring stud attachment **Notes**: cannot use belt clip when installed	26.30
KLH-6SW	Leather belt loop with D-Ring receptacle and D-Ring stud leather case back **Notes**: converts leather carry case to swivel	22.00
KLH-133K2	Heavy duty leather carrying case for TK-5*10 Standard Models	44.25
KLH-133K3	Heavy duty leather carrying case for TK-5*10 12 Keypad Models	44.25
KLH-134K2	Cordura Nylon carrying case for TK-5*10 Standard Models	26.30
KLH-134K3	Cordura Nylon carrying case for TK-5*10 12 Keypad Models	26.30
KLH-137ST	Firemen's Heavy-Duty Leather Shoulder Strap for a Heavy-Duty Leather Case (KLH-75B/76B/78B/79B//92/122/123/133/148/154)	36.75

MICROPHONES & AUDIO ACCESSORIES — LIST

Model	Description	LIST
KMC-51M	MIL-SPEC, IP54/55 DSP Digital Noise-canceling Speaker Mic **[see note 1]**	250.00
KMC-52W	MIL-SPEC, **IP67 (Immersion)** DSP Digital Noise-canceling Speaker Mic **[see note 1]**	300.00
	[note 1]: To adjust microphone settings different from factory default, download KPG-147NC configuration software and special configuration firmware from Kenwood Tools (no charge).	
KMC-41M	MIL-SPEC, IP54/55 Noise-canceling Speaker Mic **[Intrinsically Safe Approved Accessory]**	96.50
KMC-42WM	MIL-SPEC, **IP67 (Immersion)** Noise-canceling Speaker Mic **[Intrinsically Safe Approved Accessory]**	114.00
KMC-49	MIL-SPEC, Speaker Mic. with Antenna Connector **[Intrinsically Safe Approved Accessory]** **Note**: 5/16" Coax cable hex wrench included (antenna is not included).	250.00
KEP-1	3.5mm earphone kit for KMC-25/26/41M/42WM Speaker Mics **[Intrinsically Safe Approved Accessory]**	52.50
KEP-3	30" Earphone kit w/ 2.5mm plug for KCT-30 **[Intrinsically Safe Approved Accessory]**	51.50
KEP-4	48" Earphone kit w/ 2.5mm plug for KCT-30 **[Intrinsically Safe Approved Accessory]**	54.75

MICROPHONES & AUDIO ACCESSORIES - CONT'D — LIST

Model	Description	LIST
KCT-30	2.5mm Audio Accessory Adapter for KEP-3/4 **[Intrinsically Safe Approved Accessory]**	64.00
KCT-51	Hirose 6-pin Adapter (adapts KVL/aftermarket audio acc. to portable connector) **[Intrinsically Safe Approved Accessory]**	215.00
KHS-11BE	2-wire palm mic w/earphone, universal connector (Beige) **[Intrinsically Safe Approved Accessory]**	156.50
KHS-11BL	2-wire palm mic w/earphone, universal connector (Black) **[Intrinsically Safe Approved Accessory]**	156.50
KHS-12BE	3-wire mini lapel mic w/earphone, universal connector (Beige) **[Intrinsically Safe Approved Accessory]**	184.00
KHS-12BL	3-wire mini lapel mic w/earphone, universal connector (Black) **[Intrinsically Safe Approved Accessory]**	184.00
KHS-14	Lt. Wt. Single muff headset w/boom mic & In-line PTT **[Intrinsically Safe Approved Accessory]**	126.00
KHS-15-BH	Hvy-duty noise reduction behind-the-headset w/noise cancelling boom mic & in-line PTT **[Intrinsically Safe Approved Accessory]**	420.00
KHS-15-OH	Hvy-duty noise reduction over-the-headset w/noise cancelling boom mic & in-line PTT **[Intrinsically Safe Approved Accessory]**	368.00

ENVIRONMENTAL SPEC. OPTIONS — LIST

Model	Description	LIST
KWD-IM10	IP 66/67/68 Immersion Option Kit* Must Order **L-987** **Note:** Initial Installation Kenwood Long Beach Tuning Dept. only. To maintain immersion certification, re-certification is required every 2 years available at Kenwood Authorized Service Centers only. Call an ASC for return procedure ($315.00 List Price) IP 66 (Dust & Water Jet Intrusion), IP 67 (Immersion in 3.3 ft. (1m) depth @ 30 mins), IP 68 (Immersion in 3.3 ft. (1m) depth @ 2 hours)	368.00

FIRMWARE OPTIONS		LIST
KWD-RK20	OTAR Option for KWD-AE20K Encryption Module in TK-5x10 series (OTAR in P25 Conventional & Trunked Modes) • **Requires KWD-AE20K module.** • **L-1108** (for portable) & **L-1109** (for mobile) Installation (no charge) • **L-1733** (for portable) & **L-1734** (for mobile) Field Upgrade Option **Note:** • Supports OTAR in P25 Conventional & Trunked modes (Not compatible with GK7 64 CH Model) • Compatible with Motorola KMF P25 OTAR (excludes Motorola-proprietary non-TIA/P25 KMF features) • Requires KPG-95D/DG(N) V7.10 or later for radio programming • TK-5x10 VER2: Requires KPG-95D V5.40 or later for radio programming • TK-5410/5910: Requires KPG-95D V6.00 or later for radio programming • TK-5x10G: Requires KPG-95DG(N) for radio programming • TK-5x10 VER2: Option deletes self-programming, cloning and analog FleetSync® (except PTT ID/Emergency) when installed. KWD-RK20 is an U.S. DOC/BIS Export Controlled Item (ECCN 5D002A) **- See IMPORTANT NOTES -**	830.00

SOFTWARE OPTIONS		LIST
KPG-113AE	AES/DES Encryption Software Key Loader for KWD-DE21K/KWD-AE21K Loads AES & DES keys on capable encryption modules **Note**: KPG-113AE is a U.S. DOC/BIS Export Controlled Item (ECCN 5D002A) **- See IMPORTANT NOTES -**	525.00
KPG-114DE	DES Encryption Software Key Loader for KWD-DE21K/KWD-AE21K Loads DES keys only regardless of encryption module model **Note**: KPG-114DE is a U.S. DOC/BIS Export Controlled Item (ECCN 5D992A.1) **- See IMPORTANT NOTES -**	368.00

OPTION MODULES		LIST
KCT-48VU	External Vibration Unit **[Intrinsically Safe Approved Accessory]** **Note:** Audio accessories cannot be used when this option installed. KCT-48VU does not support the P25 digital mode calling or paging features	49.00
KCT-57MS	Man-Down Internal Tilt Switch (Non-Mercury) **[Intrinsically Safe Approved Accessory]**- Must be Kenwood installed for I.S. Order **L-1614** for FleetSync®/P25 Emergency operations	22.00
KWD-AE20K	AES FIPS140-2 & DES Encryption Module for TK-5x10, TK-5x10G & TK-5x20 Portables & Mobiles (except K7 Portable) [KWD-AE20K support] - Advanced Encryption Standard (AES): 256-bit symmetric key algorithm; NIST validated per FIPS140-2 - Data Encryption Standard (DES): 56-bit symmetric key algorithm. - 16 Multi-key List (user-selectable / per Personality programming) - Stores: 1024 keys & 1024 Common Key References (CKR) - Must order KWD-RK20 for OTAR capability **[Intrinsically Safe Approved Accessory]** - Order **L-1236** if installation is required. - KWD-AE20K requires: a Motorola KVL3000/+ & KVL-4000 Key Fill Devices and KMF P25 OTAR (excludes Motorola-proprietary non-TIA/P25 KMF features). F/W VA2.0.3 or later supports the KVL4000. - KWD-AE20K is an U.S. DOC/BIS Export Controlled Item (ECCN 5A002A.1) **- See IMPORTANT NOTES -**	998.00
KWD-AE21K	AES & DES Encryption Module for TK-5x10, TK-5x10G & TK-5x20 Portables & Mobiles (except K7 Portable) [KWD-AE20K support] - Advanced Encryption Standard (AES): 256-bit symmetric key algorithm; - Data Encryption Standard (DES): 56-bit symmetric key algorithm. - 16 Multi-key List (user-selectable / per Personality programming) - Stores: 1024 keys & 1024 Common Key References (CKR) **[Intrinsically Safe Approved Accessory]** - Order **L-1237** if installation is required. **Note**: Requires KPG-113AE software key loader or Motorola KVL3000 Plus key loader device. KWD-AE21K is an U.S. DOC/BIS Export Controlled Item (ECCN 5A002A.1)	998.00
KWD-DE21K	DES Encryption Module for TK-5x10, TK-5x10G & TK-5x20 Portables & Mobiles [KWD-DE21K support] - Data Encryption Standard (DES): 56-bit symmetric key algorithm - 16 Multi-key List (user-selectable / per Personality programming) - Stores: 1024 keys & 1024 Common Key References (CKR) **[Intrinsically Safe Approved Accessory]** - Order **L-1560** if installation is required **Note**: Requires KPG-114DE or KPG-113AE software key loader or Motorola KVL3000 Plus key loader device. KWD-DE21K is a U.S. DOC/BIS Export Controlled Item (ECCN 5A992A) **- See IMPORTANT NOTES -**	578.00

SERVICE RELATED ACCESSORIES		*LIST*
KPG-36UM	USB Programming interface cable	158.50
KPG-93	KVL-3000/3000 Plus Interface Cable for TK-5x10, TK-5x10G & TK-5x20 Portables	262.50
KPG-95DGNK	Windows® Programming Software for TK-5x10 & TK-5x10G Portables & Mobiles (Compliant with FCC Part 90 Narrowbanding) **Note:** Self-programming function is not available. **Analog & P25 Conventional Programming** A "Dealer-Level" License ID is included with each KPG-95D/DG(N)K which only permits full analog conventional and P25 conventional programming. Data files created with a "Network-Level Licensed" KPG-95D/95DG(N) and containing P25 programmed P25 trunked network parameters can be loaded and viewed with a Dealer-Level Licensed KPG-95D/DG(N)K, but the trunked network parameters cannot be changed. **P25 Trunked Programming Capability (licensed by either 1 or 2 below):** **1. KPG-95DG(N)K with System Key File (*.SKF)- See L-989** • For all TK-5x10 radio platforms (VER1, 2, 3 or later). • 3-digit HEX System ID (HSID) and verifiable written authorization required from trunked system operator (SYSOP). • Purchase KPG-95DG(N)K & L-989 Network-Level License ID • Kenwood ships an encrypted *.SKF file on CD ROM • The *.SKF securely embeds/encrypts the 16-digit Network Level License ID & the HSID. **2. KPG-95DG(N)K with Advanced Network Keys (ANK's)** • For TK-5x10G/5410/5910 VER 3 or later radio platforms only. • SYSOPs: Refer to KWD-ANK-MK Master Key • Dealers/contractors: Refer to KWD-ANK-AK Access Key • KPG-95DG(N)K (V7.0 or later) supports up to 16 KWD-ANK-AK Access Keys (16 trunked networks)	628.00
KWD-ANK-AK	Access Key for KPG-95DG(N)K P25 trunked programming **Notes:** • For TK-5x10G/5410/5910 VER 3 or later radio platforms only • Must be activated by a SYSOP with KWD-ANK-MK Master Key. • Must have KPG-95DG(N)K (V7.0 or later); L-989 is NOT required. • Battery Life: 3 years (non-serviceable; key must be replaced)	208.00
KWD-ANK-MK	Master Key for activating KWD-ANK-AK Access Keys **- Restricted Purchase Requirements -** **Notes:** • For TK-5x10G/5410/5910 VER 3 or later radio platforms only. • Sold to SYSOP or SYSOP authorized entities only • Must have KPG-95DG(N)K (V7.0 or later) with L-989 Network-Level License ID • SYSOP must provide 3-digit HEX HSID to Kenwood. • Purchase KWD-ANK-AK Access Keys if needed. • Battery Life: 3 years (non-serviceable; key must be replaced)	500.00

INSTALLATION / TUNING CHARGES		*LIST*
L-961	Assemble KMB-23 with six KSC-32K's (Rapid Rate, 120 Volt version only)	17.00
L-986	Configure TK-5210-IS/TK-5310-IS/TK-5410-IS for Intrinsically Safe **Must order an I.S. battery, KNB-41NC-FM**	100.00
L-987	Immersion Option Certification (Must purchase Immersion Option Kit, KWD-IM10 separately)	N/C
L-989	KPG-95D/95DG(N) Network Level ID (encrypted data file) **Note**: Enables Trunked system programming privileges in a KPG-95DG(N)K. **- Restricted Purchase Requirements -** • 3-Digit HEX System ID (HSID) from SYSOP required • Must Purchase KPG-95DG(N)K (V7.0 or later) with L-989 • Kenwood ships an encrypted *.SKF file on CD ROM • Non-SYSOP entities ordering L-989 must provide verifiable written authorization from SYSOP to receive an *.SKF file. • The 16-digit Network Level License ID & 3-digit HEX HSID are securely encrypted & embedded in the *.SKF file.	132.00
L-990	TK-5*10 Programming (Basic TX/RX check only with factory test freq.s or dealer/customer provided KPG-95D/DG(N) data file)	125.00
L-1236	Install KWD-AE20K in TK-5*10 Portables (Must purchase module separately)	75.00
L-1237	Install KWD-AE21K in TK-5*10 Portables (Must purchase module separately)	75.00
L-1560	Install KWD-DE21K in TK-5*10 Portables (Must purchase module separately)	75.00
L-1614	5*10 Portable KCT-57MS Installation (for P25)	20.00
L-1733	KWD-RK20 Field Upgrade Option for TK-5x10G & 5410 (Must purchase KWD-RK20 separately)	42.00

-- IMPORTANT NOTES --

Encryption modules, key loaders and radios containing encryption are export controlled by the U.S. Department of Commerce Bureau of Industry & Security EAR regulations and may either require an Export License, are eligible for a License Exception (ENC) or are exportable with No License Required (NLR) depending on the country, the consignee and the intended use. High level encryption is a special commodity that may require an export license to most countries. See www.bis.gov for more information regarding export regulations. DO NOT SHIP encryption items outside the U.S. without proper DOC/BIS Export Licenses and/or compliances.

Kenwood may request the following information to be submitted at time of order (this information must meet Kenwood internal approvals prior to shipment even if being returned to Kenwood later:

a) Initial Destination: Initial delivery point if different from Ultimate Destination
(customer distribution center, headquarters, dealership, manufacturer's representative)
* Business/Agency Name:
* Address:
* Contact Person Name:
* Contact Phone:
b) Ultimate Destination: Final delivery point(s); deployment/distribution
* Business/Agency Name:
* Address:
* Contact Person Name:
* Contact Phone:
c) Intended Use of Radios: Law enforcement, security, operations, etc.

KWD-AE20 AES FIPS140-2 SCM , NIST Validation & Customer Shipping
A secure delivery method direct to the end user customer is required by the NIST AES FIPS 140-2 validation rules. For U.S. Federal Government entities the SCM must ship from Kenwood USA Corporation directly to the end user customer by a trusted carrier (FEDEX, UPS or a designated Kenwood USA Corporation employee); shipping/handling by a dealer or other entity is not acceptable. This may or may not be required by local/state government agencies or business/industrial users. Please check with the end use customer about their AES encryption handling requirements before ordering. Kenwood will not be responsible for shipments of KWD-AE20K modules to erroneous destinations specified on an order.

TK-5410D
700/800 MHz FM Analog & P25 Digital Portable Radio

All 5410D series portables include:
• Belt Clip (KBH-11)
• Universal Connector Cap
• Instruction Manual
• Premium Warranty: 3 Years*

* All Accessories / options: 1 Year

Order packages to include Battery, Charger & Antenna,
or purchase Battery, Charger, and Antenna separately.

Standard Model
16-Character Alphanumeric LCD
4 control keys

12 Keypad Model
16-Character Alphanumeric LCD
4 control keys
DTMF/Function keypad

GENERAL FEATURES
• 3 Watt
• 100 Zones / 1024 Channels
• 12-Key Keypad Model
• Personality Lists
• Backlit Dot Matrix LCD
• 16 Character Alphanumeric Aliases
• 3-Digit Sub-Display
• Function / Status LCD Icons
• RSSI Indicator
• Transmit / Busy / Call Alert / Warn LED
• On/Off Volume Knob
• 16-Position Selector Knob
• 2-Position PF Lever Switch
• 3-Position PF Concentric Switch
• 4 Front Menu-Driven PF Keys
• 3 Side PF Keys
• Orange Emergency / AUX Key
• Zone / Ch Voice Announcement
• VOX Ready
• Emergency Features
• Battery Level
• Transceiver Password
• Date & 12/24 Hour Time Clock
• KPG-95DG/DGN Windows® FPU
• Flash Firmware Upgrading
• VGS-1 Voice Guide & Storage
• Weather-Sealed Accessory Connector
• MIL-STD-810 C/D/E/F/G
• IP54/55/66 Water & Dust Intrusion
• IP67/68 Immersion

P25 DIGITAL
• P25 Conventional
• P25 Phase 1 Trunking
• P25 Phase 2 Trunking
• AMBE+2™ Enhanced VOCODER
• Talk Group ID Lists
• Individual ID Lists
• Caller ID Display
• Remote Monitor / Check, Radio Inhibit
• Encryption Key Zeroize & Retention
• DES Encryption Module Option
• AES & DES Encryption Module Option
• P25 GPS Location
• P25 OTAR Option

SCAN TYPES (FM & P25)
• Single Zone/Multi-Zone Scan
• Scan Lists
• Conventional Scan
• Limited Talk Group Scan
• Priority Monitor Scan
• Dual Priority Scan

FM
• QT / DQT
• Operator Selectable Tone
• DTMF Encode
• Companded Audio
• NPSPAC Channels

PACKAGES		LIST
TK-5410DK2-NKP	NiMH Battery Package (TK-5410DK2 + KNB-54N + KSC-32 + KBH-11+KRA-32K)	2,360.00
TK-5410DK2-LKP	Li-Polymer Package (TK-5410DK2 + KNB-43L + KSC-32 + KBH-11+KRA-32K)	2,435.00
TK-5410DK3-NKP	NiMH Battery Package (TK-5410DK3 + KNB-54N + KSC-32 + KBH-11+KRA-32K)	2,515.00
TK-5410DK3-LKP	Li-Polymer Package (TK-5410DK3 + KNB-43L + KSC-32 + KBH-11+KRA-32K)	2,590.00

RADIO		LIST
TK-5410DK2	700/800 MHz 3W, 1024 CH, Standard Model	2,200.00
TK-5410DK3	700/800 MHz 3W, 1024 CH, 12 Keypad Model	2,358.33

RADIO (Special Color Housing)		LIST
TK-5410DK2-YH	700/800 MHz 3W, 1024 CH, Standard Model (w/ Yellow Housing) [see note 1]	2,325.00
TK-5410DK2-OH	700/800 MHz 3W, 1024 CH, 12 Keypad Model (w/ Orange Housing) [see note 1]	2,325.00

[Note 1]: These models are stocked in minimum quantities. Please anticipate a minimum 90-day lead time. Contact the order desk to verify availability.

ANTENNAS		*LIST*
KRA-32K	700/800 MHz Whip Antenna	35.00
KRA-36	700/800 MHz Stubby Antenna	25.00

BATTERIES AND CHARGERS		*LIST*
KBP-6	AA Alkaline Refillable Battery Pack (6 AA; 9V) cells not included **Note:** the color of the case is orange	68.50
KMB-23	Six Unit Charger Adapter for the KSC-16/20/24/25/25L/32 chargers (chargers not included)	191.00
KMB-30M	Wall Mount Bracket for KSC-326K/256K	33.75
KNB-33L	2000 mAh, Li-ion battery - requires KSC-32/326K charger	105.00
KNB-43L	3300 mAh, Li-Polymer battery - requires KSC-32/326K charger	163.00
KNB-49PL	4500 mAh, Primary Lithium battery **Note**: **Non-Rechargeable** (please recycle all batteries properly) 10 year Shelf Life (approx. 1% charge degradation per year when properly stored: +50 ℉ to +86 ℉ @ less than 70% humidity	84.00
KNB-54N	2500 mAh, Ni-MH battery - requires KSC-32/326K charger **[Immersion Option compatible]**	87.50
KSC-32	Rapid rate single unit charger for KNB-31A/32N/33L/41NC/43L/47L/48L/50NC/54N **Note:** Includes 110/220V auto-switching AC adapter with U.S.-style line cord plug; requires plug adapter for 220V Euro-style outlets (not supplied).	70.00
KSC-326K	Rapid rate 6-unit charger for KNB-31A/32N/33L/41NC/43L/47L/48L/50NC/54N	630.00
KVC-15	Rapid rate DC vehicular charger adapter for the KSC-32 (chargers not included; includes KSC-mobile bracket & cigarette lighter cable DC adapter)	119.00
KVC-18	Vehicular D.C. Charger for 180/5*10 Portables with NiCd or NiMH Battery	446.50
KVC-20L	Vehicular D.C. Charger for 180/5**0/, NX Portables with Li-ion or Li Polymer Battery	497.00

CARRYING ACCESSORIES		*LIST*
KBH-11	Spring action belt clip (2.5")	14.70
KBH-8DS	Leather belt loop with D-Ring receptacle and D-Ring stud attachment **Notes**: cannot use belt clip when installed	26.30
KLH-133K2	Heavy duty leather carrying case for TK-5*10 Standard Models	44.25
KLH-133K3	Heavy duty leather carrying case for TK-5*10 12 Keypad Models	44.25
KLH-134K2	Cordura Nylon carrying case for TK-5*10 Standard Models	26.30
KLH-134K3	Cordura Nylon carrying case for TK-5*10 12 Keypad Models	26.30
KLH-137ST	Firemen's Heavy-Duty Leather Shoulder Strap for a Heavy-Duty Leather Case (KLH-75B/76B/78B/79B//92/122/123/133/148/154)	36.75
KLH-6SW	Leather belt loop with D-Ring receptacle and D-Ring stud leather case back **Notes**: converts leather carry case to swivel	22.00

MICROPHONES & AUDIO ACCESSORIES (For FDMA & TDMA Operations)		*LIST*
KMC-42WD	MIL-SPEC, **IP67 (Immersion)** Noise-canceling Speaker Mic	114.00
KMC-47GPSD	GPS Speaker Microphone	290.00
KMC-51D	MIL-SPEC, IP54/55 DSP Digital Noise-canceling Speaker Mic [see note 1]	250.00
KMC-52WD	MIL-SPEC, **IP67 (Immersion)** DSP Digital Noise-canceling Speaker Mic **[see note 1]**	300.00

MICROPHONES & AUDIO ACCESSORIES (For FDMA Operations)		LIST
KCT-30	2.5mm Audio Accessory Adapter for KEP-3/4	64.00
KCT-51	Hirose 6-pin Adapter (adapts KVL/aftermarket audio acc. to portable connector)	215.00
KEP-1	3.5mm earphone kit for KMC-25/26/41M/42WM Speaker Mics	52.50
KEP-3	30" Earphone kit w/ 2.5mm plug for KCT-30	51.50
KEP-4	48" Earphone kit w/ 2.5mm plug for KCT-30	54.75
KHS-11BE	2-wire palm mic w/earphone, universal connector (Beige)	156.50
KHS-11BL	2-wire palm mic w/earphone, universal connector (Black)	156.50
KHS-12BE	3-wire mini lapel mic w/earphone, universal connector (Beige)	184.00
KHS-12BL	3-wire mini lapel mic w/earphone, universal connector (Black)	184.00
KHS-14	Lt. Wt. Single muff headset w/boom mic & In-line PTT	126.00
KHS-15-BH	Hvy-duty noise reduction behind-the-headset w/noise cancelling boom mic & in-line PTT	420.00
KHS-15-OH	Hvy-duty noise reduction over-the-headset w/noise cancelling boom mic & in-line PTT	368.00
KMC-41M	MIL-SPEC, IP54/55 Noise-canceling Speaker Mic	96.50
KMC-42WM	MIL-SPEC, **IP67 (Immersion)** Noise-canceling Speaker Mic	114.00
KMC-49	MIL-SPEC, Speaker Mic. with Antenna Connector **Note**: 5/16" Coax cable hex wrench included (antenna is not included).	250.00
KMC-51M	MIL-SPEC, IP54/55 DSP Digital Noise-canceling Speaker Mic **[see note 1]**	250.00
KMC-52W	MIL-SPEC, **IP67 (Immersion)** DSP Digital Noise-canceling Speaker Mic **[see note 1]**	300.00

[note 1]: To adjust microphone settings different from factory default, download KPG-147NC configuration software and special configuration firmware from Kenwood Tools (no charge).

FIRMWARE OPTIONS		LIST
KWD-RK20	OTAR Option for KWD-AE20K Encryption Module in TK-5x10 series (OTAR in P25 Conventional & Trunked Modes) • **Requires KWD-AE20K module.** • **L-1108** Installation (no charge) • **L-1733** Field Upgrade Option **Note:** • Supports OTAR in P25 Conventional & Trunked modes • Compatible with Motorola KMF P25 OTAR (excludes Motorola-proprietary non-TIA/P25 KMF features) • Requires KPG-95DG(N) **V8.00** or later for radio programming KWD-RK20 is an U.S. DOC/BIS Export Controlled Item (ECCN 5D002A) **- See IMPORTANT NOTES -**	830.00

SOFTWARE OPTIONS		LIST
KPG-113AE	AES/DES Encryption Software Key Loader for KWD-DE21K/KWD-AE21K Loads AES & DES keys on capable encryption modules **Note**: KPG-113AE is a U.S. DOC/BIS Export Controlled Item (ECCN 5D002A) **- See IMPORTANT NOTES -**	525.00
KPG-114DE	DES Encryption Software Key Loader for KWD-DE21K/KWD-AE21K Loads DES keys only regardless of encryption module model **Note**: KPG-114DE is a U.S. DOC/BIS Export Controlled Item (ECCN 5D992A.1) **- See IMPORTANT NOTES -**	368.00

OPTION MODULES		LIST
KCT-48VU	External Vibration Unit **Note:** Audio accessories cannot be used when this option installed. KCT-48VU does not support the P25 digital mode calling or paging features	49.00
KCT-57MS	Man-Down Internal Tilt Switch (Non-Mercury) Must be Kenwood installed for I.S. Order **L-1614** for P25 Emergency operations	22.00
KWD-AE20K	AES FIPS140-2 & DES Encryption Module [KWD-AE20K support] - Advanced Encryption Standard (AES): 256-bit symmetric key algorithm; NIST validated per FIPS140-2 - Data Encryption Standard (DES): 56-bit symmetric key algorithm. - 16 Multi-key List (user-selectable / per Personality programming) - Stores: 1024 keys & 1024 Common Key References (CKR) - Must order KWD-RK20 for OTAR capability - Order **L-1236** if installation is required. - KWD-AE20K requires: a Motorola KVL3000/+ & KVL-4000 Key Fill Devices and KMF P25 OTAR (excludes Motorola-proprietary non-TIA/P25 KMF features). F/W VA2.0.3 or later supports the KVL4000. - KWD-AE20K is an U.S. DOC/BIS Export Controlled Item (ECCN 5A002A.1) **- See IMPORTANT NOTES -**	998.00
KWD-AE21K	AES & DES Encryption Module [KWD-AE20K support] - Advanced Encryption Standard (AES): 256-bit symmetric key algorithm; - Data Encryption Standard (DES): 56-bit symmetric key algorithm. - 16 Multi-key List (user-selectable / per Personality programming) - Stores: 1024 keys & 1024 Common Key References (CKR) - Order **L-1237** if installation is required. **Note**: Requires KPG-113AE software key loader or Motorola KVL3000 Plus key loader device. KWD-AE21K is an U.S. DOC/BIS Export Controlled Item (ECCN 5A002A.1) **- See IMPORTANT NOTES -**	998.00
KWD-DE21K	DES Encryption Module - Data Encryption Standard (DES): 56-bit symmetric key algorithm - 16 Multi-key List (user-selectable / per Personality programming) - Stores: 1024 keys & 1024 Common Key References (CKR) - Order **L-1560** if installation is required **Note**: Requires KPG-114DE or KPG-113AE software key loader or Motorola KVL3000 Plus key loader device. KWD-DE21K is a U.S. DOC/BIS Export Controlled Item (ECCN 5A992A) **- See IMPORTANT NOTES -**	578.00

SERVICE RELATED ACCESSORIES		LIST
KPG-36UM	USB Programming interface cable	158.50
KPG-93	KVL-3000/3000 Plus Interface Cable	262.50
KPG-95DGNK	Windows® Programming Software (Compliant with FCC Part 90 Narrowbanding) **Note:** Self-programming function is not available. **Analog & P25 Conventional Programming** A "Dealer-Level" License ID is included with each KPG-95D/DG(N)K which only permits full analog conventional and P25 conventional programming. Data files created with a "Network-Level Licensed" KPG-95D/95DG(N) and containing P25 programmed P25 trunked network parameters can be loaded and viewed with a Dealer-Level Licensed KPG-95D/DG(N)K, but the trunked network parameters cannot be changed. **P25 Phase 2 Trunked Programming** • Order (L-1744) if P25 Phase 2 trunked programming is required. **P25 Trunked Programming Capability (licensed by either 1 or 2 below):** **1. KPG-95DG(N)K with System Key File (*.SKF)- See L-989** • For all TK-5x10 radio platforms (VER1, 2, 3 or later). • 3-digit HEX System ID (HSID) and verifiable written authorization required from trunked system operator (SYSOP). • Purchase KPG-95DG(N)K & L-989 Network-Level License ID • Kenwood ships an encrypted *.SKF file on CD ROM • The *.SKF securely embeds/encrypts the 16-digit Network Level License ID & the HSID. **2. KPG-95DG(N)K with Advanced Network Keys (ANK's)** • For TK-5x10G/5410/5910 VER 3 or later radio platforms only. • SYSOPs: Refer to KWD-ANK-MK Master Key • Dealers/contractors: Refer to KWD-ANK-AK Access Key • KPG-95DG(N)K (V7.0 or later) supports up to 16 KWD-ANK-AK Access Keys (16 trunked networks).	628.00

SERVICE RELATED ACCESSORIES - CONT'D		*LIST*
KWD-ANK-AK	Access Key for KPG-95DG(N)K P25 trunked programming **Notes:** • For TK-5x10G/5410(D)/5910 VER 3 or later radio platforms only • Must be activated by a SYSOP with KWD-ANK-MK Master Key. • Must have KPG-95DGNK (V7.0 or later); L-989 is NOT required. • Battery Life: 3 years (non-serviceable; key must be replaced)	208.00
KWD-ANK-MK	Master Key for activating KWD-ANK-AK Access Keys **- Restricted Purchase Requirements -** **Notes:** • For TK-5x10G/5410(D)/5910 VER 3 or later radio platforms only. • Sold to SYSOP or SYSOP authorized entities only • Must have KPG-95DGNK (V7.0 or later) with L-989 Network-Level License ID • SYSOP must provide 3-digit HEX HSID to Kenwood. • Purchase KWD-ANK-AK Access Keys if needed. • Battery Life: 3 years (non-serviceable; key must be replaced)	500.00

INSTALLATION / TUNING CHARGES		*LIST*
L-961	Assemble KMB-23 with six KSC-32K's (Rapid Rate, 120 Volt version only)	17.00
L-989	KPG-95D/95DG(N) Network Level ID (encrypted data file) **Note**: Enables Trunked system programming privileges in a KPG-95DG(N)K. **- Restricted Purchase Requirements -** • 3-Digit HEX System ID (HSID) from SYSOP required • Must Purchase KPG-95DG(N)K (V7.0 or later) with L-989 • Kenwood ships an encrypted *.SKF file on CD ROM • Non-SYSOP entities ordering L-989 must provide verifiable written authorization from SYSOP to receive an *.SKF file. • The 16-digit Network Level License ID & 3-digit HEX HSID are securely encrypted & embedded in the *.SKF file.	132.00
L-990	TK-5*10D Programming (Basic TX/RX check only with factory test freq.s or dealer/customer provided KPG-95D/DG(N) data file)	125.00
L-1236	Install KWD-AE20K in TK-5*10 Portables (Must purchase module separately)	75.00
L-1237	Install KWD-AE21K in TK-5*10 Portables (Must purchase module separately)	75.00
L-1560	Install KWD-DE21K in TK-5*10 Portables (Must purchase module separately)	75.00
L-1614	5*10 Portable KCT-57MS Installation (for P25)	20.00
L-1733	KWD-RK20 Field Upgrade Option (Must purchase KWD-RK20 separately)	42.00
L-1774	P25 Phase 2 Trunked Programming Software (Must purchase KPG-95DGNK separately)	N/C

-- IMPORTANT NOTES --

IP66/67/68 IMMERSION re-certification

To maintain immersion certification, re-certification is required every 2 years available at Kenwood Authorized Service Centers only. Call an ASC for return procedure ($315.00 List Price)

IP 66 (Dust & Water Jet Intrusion), IP 67 (Immersion in 3.3 ft. (1m) depth @ 30 mins),
IP 68 (Immersion in 3.3 ft. (1m) depth @ 2 hours)

Encryption modules, key loaders and radios containing encryption are export controlled by the U.S. Department of Commerce Bureau of Industry & Security EAR regulations and may either require an Export License, are eligible for a License Exception (ENC) or are exportable with No License Required (NLR) depending on the country, the consignee and the intended use. High level encryption is a special commodity that may require an export license to most countries. See www.bis.gov for more information regarding export regulations. DO NOT SHIP encryption items outside the U.S. without proper DOC/BIS Export Licenses and/or compliances.

Kenwood may request the following information to be submitted at time of order (this information must meet Kenwood internal approvals prior to shipment even if being returned to Kenwood later:

a) Initial Destination: Initial delivery point if different from Ultimate Destination
(customer distribution center, headquarters, dealership, manufacturer's representative)
* Business/Agency Name:
* Address:
* Contact Person Name:
* Contact Phone:
b) Ultimate Destination: Final delivery point(s); deployment/distribution
* Business/Agency Name:
* Address:
* Contact Person Name:
* Contact Phone:
c) Intended Use of Radios: Law enforcement, security, operations, etc.

KWD-AE20 AES FIPS140-2 SCM , NIST Validation & Customer Shipping

A secure delivery method direct to the end user customer is required by the NIST AES FIPS 140-2 validation rules. For U.S. Federal Government entities the SCM must ship from Kenwood USA Corporation directly to the end user customer by a trusted carrier (FEDEX, UPS or a designated Kenwood USA Corporation employee); shipping/handling by a dealer or other entity is not acceptable. This may or may not be required by local/state government agencies or business/industrial users. Please check with the end use customer about their AES encryption handling requirements before ordering. Kenwood will not be responsible for shipments of KWD-AE20K modules to erroneous destinations specified on an order.

TK-5220/5320
VHF/UHF FM Analog & P25 Digital Portable Radios

All 5X20 series portables include:
• Belt Clip (KBH-11)
• Universal Connector Cap
• Instruction Manual
• Premium Warranty: 3 Years*

* All Accessories / options: 1 Year

*Order packages to include Battery & Charger,
or purchase Battery, Charger, and Antenna separately.*

GENERAL FEATURES
• 5 Watt (136-174 MHz)
• 5 Watt (400-470, 450-520, 380-400 MHz)
• 128 Zones / 512 Channels
• Backlit Dot Matrix LCD
• 14 Character Alphanumeric Aliases
• 3-Digit Sub-Display
• Function / Status LCD Icons
• RSSI Indicator
• Transmit / Busy / Call Alert / Warn LED
• On/Off Volume Knob
• 16-Position Selector Knob
• 4 Front Menu-Driven PF Keys
• 2 Side PF Keys
• Orange Emergency / AUX Key
• 12-Keypad Models
• VOX Ready
• Emergency Features
• Battery Level
• Transceiver Password
• Date & 12/24 Hour Time Clock
• Windows® Programming & Tuning
• Windows® Firmware Uploading
• Easy Option Port
• Voice Guide & Storage (option)
• Weather-Sealed Accessory Connector
• MIL-STD-810 C/D/E/F/G
• IP54/55 Water & Dust Protection
• Immersion (IP67) Option
• Intrinsically Safe Option **

P25 DIGITAL
• P25 Digital Conventional
• AMBE+2™ Enhanced VOCODER
• Talk Group ID Lists
• Individual ID Lists
• Caller ID Display
• Remote Monitor / Check, Radio Inhibit
• Encryption Key Zeroize and Retention
• DES Encryption Options
• AES & DES Encryption Options
• KPG-93 KVL Key Loader Interface Cable
• P25 Digital Trunking Option

SCAN TYPES (FM & P25)
• Single Zone/Multi-Zone Scan
• Scan Lists
• Conventional Scan
• Limited Talk Group Scan
• Priority Monitor Scan
• Dual Priority Scan

ANALOG
• QT / DQT
• Operator Selectable Tone
• Two-Tone Decode / Encode
• DTMF Encode / Decode / Stun
• Special Alert Tone Patterns
• Companded Audio

FleetSync® /II (FM)
• PTT ID Digital ANI
• Caller ID Display
• Status Messaging
• Emergency & Stun Statuses
• Selective & Group Call
• Text Messaging
• Send/Display GPS (KPG-47GPS)

MDC-1200
• PTT ID Digital ANI
• Caller ID Display
• Emergency Status
• Radio Check
• Radio Inhibit

** Approved for Classes I, II & III, Div. 1, Groups C, D, E, F, G and are also approved for non-Incendive use in Class I, Div. 2, Groups A, B, C, D hazardous locations.
Note: Class I, Div 2 Group A & B Gases require use of a portable carrying case.
TK-5320K5 & K6 (380-400MHz) are NOT approved by FM as Intrinsically Safe

PACKAGES		LIST
TK-5220K-LKP	VHF Li-Ion Battery Package (TK-5220K + KNB-47L + KSC-32 + KBH-11)	1,075.00
TK-5220K-LHKP	VHF Hi Cap Li-Ion Battery Package (TK-5220K + KNB-48L + KSC-32 + KBH-11)	1,092.50
TK-5320K-LKP	UHF Li-Ion Battery Package (TK-5320K + KNB-47L + KSC-32 + KBH-11)	1,075.00
TK-5320K-LHKP	UHF Hi Cap Li-Ion Battery Package (TK-5320K + KNB-48L + KSC-32 + KBH-11)	1,092.50
TK-5320K2-LKP	UHF Li-Ion Battery Package (TK-5320K2 + KNB-47L + KSC-32 + KBH-11)	1,075.00
TK-5320K2-LHKP	UHF Hi Cap Li-Ion Battery Package (TK-5320K2 + KNB-48L + KSC-32 + KBH-11)	1,092.50

RADIO		*LIST*
TK-5220K	136-174MHz 5W, 14 characters Alphanumeric LCD, 6 Control Keys	900.00
TK-5220K2	136-174MHz 5W, 14 characters Alphanumeric LCD, Full Keypad	950.00
TK-5320K	450-520MHz 5W, 14 characters Alphanumeric LCD, 6 Control Keys	900.00
TK-5320K2	400-470MHz 5W, 14 characters Alphanumeric LCD, 6 Control Keys	900.00
TK-5320K3	450-520MHz 5W, 14 characters Alphanumeric LCD, Full Keypad	950.00
TK-5320K4	400-470MHz 5W, 14 characters Alphanumeric LCD, Full Keypad	950.00
TK-5320K5	380-400MHz 5W, 14 characters Alphanumeric LCD, 6 Control Keys **[For Direct U.S. Federal Government & Export Sales Only]**	900.00
TK-5320K6	380-400MHz 5W, 14 characters Alphanumeric LCD, Full Keypad **[For Direct U.S. Federal Government & Export Sales Only]**	950.00
IP67 (Immersion) Package Models		
TK-5220-WK	136-174MHz 5W, 14 characters Alphanumeric LCD, 6 Control Keys **[see note 1]**	1,084.00
TK-5220-WK2	136-174MHz 5W, 14 characters Alphanumeric LCD, Full Keypad **[see note 1]**	1,134.00
TK-5320-WK	450-520MHz 5W, 14 characters Alphanumeric LCD, 6 Control Keys **[see note 1]**	1,084.00
TK-5320-WK2	400-470MHz 5W, 14 characters Alphanumeric LCD, 6 Control Keys **[see note 1]**	1,084.00
TK-5320-WK3	450-520MHz 5W, 14 characters Alphanumeric LCD, Full Keypad **[see note 1]**	1,134.00
TK-5320-WK4	400-470MHz 5W, 14 characters Alphanumeric LCD, Full Keypad **[see note 1]**	1,134.00
TK-5320-WK5	380-400MHz 5W, 14 characters Alphanumeric LCD, 6 Control Keys **[see note 1]**	1,084.00
TK-5320-WK6	380-400MHz 5W, 14 characters Alphanumeric LCD, Full Keypad **[see note 1]**	1,134.00
IP67 Custom Color Radio Housing		
TK-5220-WK-YH	TK-5220-WK with Yellow Housing Option Installed **[see note 1]**	1,150.00
TK-5220-WK-OH	TK-5220-WK with Orange Housing Option Installed **[see note 1]**	1,150.00
TK-5320-WK-YH	TK-5320-WK with Yellow Housing Option Installed **[see note 1]**	1,150.00
TK-5320-WK-OH	TK-5320-WK with Orange Housing Option Installed **[see note 1]**	1,150.00
TK-5320-WK2-YH	TK-5320-WK2 with Yellow Housing Option Installed **[see note 1]**	1,150.00
TK-5320-WK2-OH	TK-5320-WK2 with Orange Housing Option Installed **[see note 1]**	1,150.00
TK-5320-WK5-YH	TK-5320-WK5 with Yellow Housing Option Installed **[see note 1]**	1,150.00
TK-5320-WK5-OH	TK-5320-WK5 with Orange Housing Option Installed **[see note 1]**	1,150.00

FACTORY MUTUAL (FM) APPROVED MODELS

		LIST
Must Order L-1647 & an Intrinsically Safe Battery per radio		
TK-5220-ISK	136-174MHz 5W, 14 characters Alphanumeric LCD, 6 Control Keys	900.00
TK-5220-ISK2	136-174MHz 5W, 14 characters Alphanumeric LCD, Full Keypad	950.00
TK-5320-ISK	450-520MHz 5W, 14 characters Alphanumeric LCD, 6 Control Keys	900.00
TK-5320-ISK2	400-470MHz 5W, 14 characters Alphanumeric LCD, 6 Control Keys	900.00
TK-5320-ISK3	450-520MHz 5W, 14 characters Alphanumeric LCD, Full Keypad	950.00
TK-5320-ISK4	400-470MHz 5W, 14 characters Alphanumeric LCD, Full Keypad	950.00
IP67 (Immersion) Package Models		
TK-5220-ISWK	136-174MHz 5W, 14 characters Alphanumeric LCD, 6 Control Keys **[see note 1]**	1,084.00
TK-5220-ISWK2	136-174MHz 5W, 14 characters Alphanumeric LCD, Full Keypad **[see note 1]**	1,134.00
TK-5320-ISWK	450-520MHz 5W, 14 characters Alphanumeric LCD, 6 Control Keys **[see note 1]**	1,084.00
TK-5320-ISWK2	400-470MHz 5W, 14 characters Alphanumeric LCD, 6 Control Keys **[see note 1]**	1,084.00
TK-5320-ISWK3	450-520MHz 5W, 14 characters Alphanumeric LCD, Full Keypad **[see note 1]**	1,134.00
TK-5320-ISWK4	400-470MHz 5W, 14 characters Alphanumeric LCD, Full Keypad **[see note 1]**	1,134.00
IP67 Custom Color Radio Housing		
TK-5220-ISWKYH	TK-5220-ISWK with Yellow Housing Option Installed **[see note 1]**	1,150.00
TK-5220-ISWKOH	TK-5220-ISWK with Orange Housing Option Installed **[see note 1]**	1,150.00
TK-5320-ISWKYH	TK-5320-ISWK with Yellow Housing Option Installed **[see note 1]**	1,150.00
TK-5320-ISWKOH	TK-5320-ISWK with Orange Housing Option Installed **[see note 1]**	1,150.00
TK-5320-ISWK2YH	TK-5320-ISWK2 with Yellow Housing Option Installed **[see note 1]**	1,150.00
TK-5320-ISWK2OH	TK-5320-ISWK2 with Orange Housing Option Installed **[see note 1]**	1,150.00

[note 1]: these models are stocked in minimum quantities. Please anticipate a minimum 45-90 day lead time and call order desk to verify availability. Service must be performed at one of the 3 Kenwood National Service Centers to maintain certification up to 3 years of Product's Limited Warranty period.

ANTENNAS		*LIST*
KRA-22M	VHF low-profile helical antenna 148-162 MHz	13.70
KRA-22M2	VHF low-profile helical antenna 162-174 MHz	13.70
KRA-22M3	VHF Low-profile helical antenna 136-150 MHz	13.70
KRA-23M	UHF low-profile helical antenna 450-490 MHz	13.70
KRA-23M2	UHF low-profile helical antenna 470-512 MHz	13.70
KRA-23M3	UHF low-profile helical antenna 403-430 MHz	13.70
KRA-25	High gain VHF helically loaded whip antenna 148-162 MHz	34.25
KRA-26M	VHF helical antenna 146-162 MHz	14.00
KRA-26M2	VHF helical antenna 162-174 MHz	14.00
KRA-26M3	VHF helical antenna 136-150 MHz	14.00
KRA-27M	UHF whip antenna 440-490 MHz	14.00
KRA-27M2	UHF whip antenna 470-520 MHz	14.00
KRA-27M3	UHF whip antenna 400-450 MHz	14.00
KRA-28	Broad-band VHF helically loaded whip antenna 140-170 MHz	42.00
KRA-29	Broad Band UHF Whip Antenna 380-430 MHz	36.75

BATTERIES AND CHARGERS		*LIST*
KNB-47L	1950 mAh, Li-ion battery - requires KSC-32/326K charger **[Immersion Option compatible]**	105.00
KNB-48L	2550 mAh, Li-ion battery - requires KSC-32/326K charger **[Immersion Option compatible]**	122.50
KNB-50NC	2000 mAh, Ni-MH battery - requires KSC-32/326K charger **[Intrinsically Safe Option] [Immersion Option compatible]**	157.50
KBP-7	AA Alkaline Refillable Battery Pack (6 AA; 9V) cells not included **Note:** the color of the case is orange	68.50
KSC-32	Rapid rate single unit charger for KNB-31A/32N/33L/41NC/43L/47L/48L/50NC **Note:** Includes 110/220V auto-switching AC adapter with U.S.-style line cord plug; requires plug adapter for 220V Euro-style outlets (not supplied).	70.00
KSC-326K	Rapid rate 6-unit charger for KNB-31A/32N/33L/41NC/43L/47L/48L/50NC	630.00
KMB-30M	Wall Mount Bracket for KSC-326K/256K	33.75
KMB-23	Six Unit Charger Adapter for the KSC-16/20/24/25/25L/32 chargers (chargers not included)	191.00
KVC-15	Rapid rate DC vehicular charger adapter for the KSC-32 (chargers not included; includes KSC-mobile bracket & cigarette lighter cable DC adapter)	119.00
KVC-20L	Vehicular D.C. Charger for 180/5**0/, NX Portables with Li-ion or Li Polymer Battery	497.00

CARRYING ACCESSORIES		*LIST*
KBH-11	Spring action belt clip (2.5")	14.70
KBH-8DS	Leather swivel belt loop with portable D-Ring attachment	26.30
KLH-6SW	Leather swivel belt loop / detachable swivel D-Ring back	22.00
KLH-137ST	Firemen's Heavy-Duty Leather Shoulder Strap for a Heavy-Duty Leather Case (KLH-75B/76B/78B/79B//92/122/123/133/148/154)	36.75
KLH-148K	Heavy duty leather carrying case for NX-200/300/TK-5220/5320 (Non DTMF keypad models)	44.25
KLH-148K2	Heavy duty leather carrying case for NX-200/300/TK-5220/5320 (DTMF keypad models)	44.25
KLH-149K	Nylon carrying case for NX-200/300/TK-5220/5320 (Non DTMF keypad models)	26.30
KLH-149K2	Nylon carrying case for NX-200/300/TK-5220/5320 (DTMF keypad models)	26.30

SPECIAL COLOR HOUSING		*LIST*
KWD-YH20-P25	Yellow Housing Kit for TK-5x20 portables (6 Control Keys Version Only) Order **L-1713** for Factory Install. (required for Intrinsically Safe & IP67 radio orders)	40.00
KWD-OH20-P25	Orange Housing Kit for TK-5x20 portables (6 Control Keys Version Only) Order **L-1738** for Factory Install. (required for Intrinsically Safe & IP67 radio orders)	40.00

MICROPHONES & AUDIO ACCESSORIES		*LIST*
KMC-51M	MIL-SPEC, IP54/55 DSP Digital Noise-canceling Speaker Mic **[see note 2]**	250.00
KMC-52W	MIL-SPEC, **IP67 (Immersion)** DSP Digital Noise-canceling Speaker Mic **[see note 2]**	300.00
	[note 2]: To adjust microphone settings different from factory default, download KPG-147NC configuration software and special configuration firmware from Kenwood Tools (no charge).	
KMC-47GPS	GPS Speaker Microphone (FM Conventional mode only -- does not operate in P25 modes)	290.00
KMC-40	MIL-SPEC, Speaker Mic. with Antenna Connector **[Intrinsically Safe Approved Accessory]** **Note**: 5/16" Coax cable hex wrench included (antenna is not included).	250.00
KMC-41M	MIL-SPEC, IP54/55 Noise-canceling Speaker Mic **[Intrinsically Safe Approved Accessory]**	96.50
KMC-42WM	MIL-SPEC, **IP67 (Immersion)** Noise-canceling Speaker Mic **[Intrinsically Safe Approved Accessory]** **Important Note:** Portable radio does not have an IP67 Immersion option; meets MIL STD810 rain standards	114.00
KEP-1	3.5mm earphone kit for KMC-25/26/41M/42WM Speaker Mics **[Intrinsically Safe Approved Accessory]**	52.50
KCT-30	2.5mm Audio Accessory Adapter for KEP-3/4 **[Intrinsically Safe Approved Accessory]**	64.00
KCT-51	Hirose 6-pin Adapter (adapts KVL/aftermarket audio acc. to portable connector) **[Intrinsically Safe Approved Accessory]**	215.00
KEP-3	30" Earphone kit w/ 2.5mm plug for KCT-30 **[Intrinsically Safe Approved Accessory]**	51.50
KEP-4	48" Earphone kit w/ 2.5mm plug for KCT-30 **[Intrinsically Safe Approved Accessory]**	54.75
KHS-11BE	2-wire palm mic w/earphone, universal connector (Beige) **[Intrinsically Safe Approved Accessory]**	156.50
KHS-11BL	2-wire palm mic w/earphone, universal connector (Black) **[Intrinsically Safe Approved Accessory]**	156.50
KHS-12BE	3-wire mini lapel mic w/earphone, universal connector (Beige) **[Intrinsically Safe Approved Accessory]**	184.00
KHS-12BL	3-wire mini lapel mic w/earphone, universal connector (Black) **[Intrinsically Safe Approved Accessory]**	184.00
KHS-14	Lt. Wt. Single muff headset w/boom mic & In-line PTT **[Intrinsically Safe Approved Accessory]**	126.00
KHS-15-BH	Hvy-duty noise reduction behind-the-headset w/noise cancelling boom mic & in-line PTT **[Intrinsically Safe Approved Accessory]**	420.00
KHS-15-OH	Hvy-duty noise reduction over-the-headset w/noise cancelling boom mic & in-line PTT **[Intrinsically Safe Approved Accessory]**	368.00

SOFTWARE OPTIONS		*LIST*
KPG-113AE	AES/DES Encryption Software Key Loader for KWD-DE21K/KWD-AE21K **Note**: KPG-113AE is a U.S. DOC/BIS Export Controlled Item (ECCN 5D002A) - See IMPORTANT NOTES -	525.00
KPG-114DE	DES Encryption Software Key Loader for KWD-DE21K/KWD-AE21K **Note**: KPG-114DE is a U.S. DOC/BIS Export Controlled Item (ECCN 5D992A.1) - See IMPORTANT NOTES -	368.00
KWD-TR30	Trunking Option for TK-5220/5320, TK-5720/5820 KWD-TR30 supoort:1 Trunking Network Must order **L-1694** for factory installation, or **L-1696** for field-upgrade option **Note**: KPG-112D(N) Ver2.0 or later Requires Network Level License ID to program trunked network radio parameters (see KPG-112D(N) for purchase restrictions & requirements)	250.00

OPTION MODULES		LIST
KCT-48VU	External Vibration Unit **[Intrinsically Safe Approved Accessory]** <u>**Note:**</u> Audio accessories cannot be used when this option installed. KCT-48VU does not support the P25 digital mode calling or paging features	49.00
KCT-57MS	Man-Down Internal Tilt Switch (Non-Mercury) **[Intrinsically Safe Approved Accessory]**- Must be Kenwood installed for I.S. Order <u>**L-1648**</u> for P25/FleetSync®/MDC-1200 operations	22.00
KWD-AE20K	AES FIPS140-2 & DES Encryption Module for TK-5*10 and 5*20 Portables & Mobiles (except K7 Portable) **[Intrinsically Safe Approved Accessory]** - Order a Labor Code <u>**L-1649**</u> if installation is required. KWD-AE20K requires: a Motorola KVL3000 Plus key loader device. KWD-AE20K is an U.S. DOC/BIS Export Controlled Item (ECCN 5A002A.1) **- See IMPORTANT NOTES -**	998.00
KWD-AE21K	AES & DES Encryption Module for TK-5*10 and 5*20 Portables & Mobiles (except K7 Portable) **[Intrinsically Safe Approved Accessory]** - Order a Labor Code (<u>**L-1650**</u>) if installation is required. <u>**Note**</u>: Requires KPG-113AE software key loader or Motorola KVL3000 Plus key loader device. KWD-AE21K is an U.S. DOC/BIS Export Controlled Item (ECCN 5A002A.1) **- See IMPORTANT NOTES -**	998.00
KWD-DE21K	DES Encryption Module for TK-5*10 and 5*20 Portables & Mobiles **[Intrinsically Safe Approved Accessory]** - Order a Labor Code (<u>**L-1651)**</u> if installation is required <u>**Note**</u>: Requires KPG-114DE or KPG-113AE software key loader or Motorola KVL3000 Plus key loader device. KWD-DE21K is a U.S. DOC/BIS Export Controlled Item (ECCN 5A992A) **- See IMPORTANT NOTES -**	578.00
VGS-1	Voice Guide and Storage Unit **[Intrinsically Safe Approved Accessory]**	87.50

SERVICE RELATED ACCESSORIES		LIST
KPG-112DNK	Windows® Programming Software for TK-5*20 Series (Compliant with FCC Part 90 Narrowbanding)	103.25
KPG-36UM	USB Programming interface cable	158.50
KPG-93	TK-5210/5310/5410/5220/5320/5400 KVL-3000/3000 Plus Interface Cable	262.50

INSTALLATION / TUNING CHARGES   LIST

L-961	Assemble KMB-23 with six KSC-32K's (Rapid Rate, 120 Volt version only)	17.00
L-1644	TK-5220/5320 Programming (Basic TX/RX check only with factory test freq.s or dealer/customer provided KPG-112D data file)	125.00
L-1645	Install VGS-1 Voice Guide & Storage Unit	25.00
L-1646	Multi-Channel Encoder Modification	25.00
L-1647	Configure TK-5220/5320 for Intrinsically Safe **Must order an I.S. battery**	70.00
L-1648	TK-5220/5320 Portable KCT-57MS Installation (for P25/FleetSync®/MDC-1200)	20.00
L-1649	Install KWD-AE20K in TK-5220/TK-5320 Portables (Must purchase module separately)	75.00
L-1650	Install KWD-AE21K in TK-5220/TK-5320 Portables (Must purchase module separately)	75.00
L-1651	Install KWD-DE21K in TK-5220/TK-5320 Portables (Must purchase module separately)	75.00
L-1694	Install KWD-TR30 Trunking Option in TK-5220/5320 (Must purchase KWD-TR30 separately)	N/C
L-1696	TK-5220/5320 KWD-TR30 FIELD-UPGRADE (Must purchase KWD-TR30 separately)	N/C
L-1698	KPG-112D(N) Network Level ID (encrypted data file) **Note**: Enables Trunking system programming privileges; See KPG-112D(N) Network Level ID (Trunking System Privileges) **- Restricted Purchase Requirements -** L-1698- KPG-112D(N) Network Level ID (Trunking System Privileges) The KPG-112D(N) only ships with a "Dealer Level License ID" which permits Conventional FM and P25 Conventional radio programming privileges only. For radios with the P25 Trunking option installed, trunked/network programming privileges require a "Network Level License ID" generally reserved ONLY for the system owner or the system owners authorized operators/service centers. Purchasing the KPG-112D(N) Network Level License ID will require 1) Written verifiable authorization from the systems owner/operator. 2) The 3-digit hexadecimal P25 System ID from the system owner/operator. 3) Purchase of a L-1698 : KPG-112D(N) Network Level ID option. This option will include an encrypted KPG-112D(N) "System Key Data File" containing the 16-digit Network Level License ID & 3-digit hexadecimal System ID code	132.00
L-1713	Assemble Yellow Housing KWD-YH20-P25 with TK-5X20 Portable	27.00
L-1738	Assemble Orange Housing KWD-OH20-P25 with TK-5X20 Portable	27.00

-- IMPORTANT NOTES --

Encryption modules, key loaders and radios containing encryption are export controlled by the U.S. Department of Commerce Bureau of Industry & Security EAR regulations and may either require an Export License, are eligible for a License Exception (ENC) or are exportable with No License Required (NLR) depending on the country, the consignee and the intended use. High level encryption is a special commodity that may require an export license to most countries. See www.bis.gov for more information regarding export regulations. DO NOT SHIP encryption items outside the U.S. without proper DOC/BIS Export Licenses and/or compliances.

Kenwood may request the following information to be submitted at time of order (this information must meet Kenwood internal approvals prior to shipment even if being returned to Kenwood later:

a) Initial Destination: Initial delivery point if different from Ultimate Destination
(customer distribution center, headquarters, dealership, manufacturer's representative)
* Business/Agency Name:
* Address:
* Contact Person Name:
* Contact Phone:
b) Ultimate Destination: Final delivery point(s); deployment/distribution
* Business/Agency Name:
* Address:
* Contact Person Name:
* Contact Phone:
c) Intended Use of Radios: Law enforcement, security, operations, etc.

KWD-AE20 AES FIPS140-2 SCM , NIST Validation & Customer Shipping
A secure delivery method direct to the end user customer is required by the NIST AES FIPS 140-2 validation rules. For U.S. Federal Government entities the SCM must ship from Kenwood USA Corporation directly to the end user customer by a trusted carrier (FEDEX, UPS or a designated Kenwood USA Corporation employee); shipping/handling by a dealer or other entity is not acceptable. This may or may not be required by local/state government agencies or business/industrial users. Please check with the end use customer about their AES encryption handling requirements before ordering. Kenwood will not be responsible for shipments of KWD-AE20K modules to erroneous destinations specified on an order.

TK-5710G / 5810G
VHF/UHF FM & P25 Digital Mobile Radios

All P25 series mobiles include:
• RF Deck Only
(Configuration Set & Assembly Labor Code must be order for a Complete Mobile.)
• Premium Warranty: 3 Years*

* All Accessories / options: 1 Year

G models are Ver 3 Hardware
(starting S/No. B03xxxxx)

* TX Power is derated
at 500-520 MHz for TK-5810HBK:

450-499 MHz (100 W)
500-520 MHz (60 W)

GENERAL FEATURES
• 50W & 110W (136-174 MHz)
• 45W & 100 W (450-520, 400-470 MHz)
• 100 Zones / 1024 Channels
• Personality Lists
• Enhanced Kenwood Audio
• Zone/CH Voice Announce
• Emergency Features
• Tactical Group
• Intercom
• Public Address
• Time Out Timer
• Busy Channel Lockout
• Ignition Sense
• Timed Power Off
• DB-25 & 9-Pin Accessory Connectors
• Transceiver Password
• Date & 12/24 Hour Time Clock
• Windows® Programming & Tuning
• Windows® Firmware Uploading
• Field-Programming & Tuning
• Cloning
• Easy Option Ports (26-pin)
• Voice Guide & Storage (Option)
• DB-25 & 9-Pin Accessory Connectors
• MIL-STD 810 C/D/E/F, IP-54
• MIL-STD Noise-Cancel Mic
• MIL-STD 12-Key DTMF Mic Option

MOUNTING CONFIGURATIONS
• Dash Mount
• Single Control Head Remote Mount
• Handheld Control Remote Mount
• Dual Control Head Remote Mount

FRONT PANELS/CONTROL HEADS
KCH-14 Front Panel
• 12-Character Alphanumeric Aliases
• 5 PF Keys
• Built-in Front Speaker
KCH-15 Front Panel
• 14-Character Alphanumeric Aliases
• 11 PF Keys
KCH-16M Handheld Control Head
• 14-Character Alphanumeric Aliases
• 9 PF Keys
• 12-Key DTMF/Function Keypad

P25 DIGITAL
• P25 Digital Conventional
• P25 Digital Trunking Option
• AMBE+2™ Enhanced VOCODER
• Talk Group ID Lists
• Individual ID Lists
• Caller ID Display
• RSSI Indicator
• Remote Monitor
• Remote Check
• Radio Inhibit
• Encryption Key Delete
• Encryption Key Zeroize Option
• Encryption Key Retention Option
• DES 16-Key SCM Option
• AES FIPS 140-2 & DES 16-Key SCM Option
• KPG-94 KVL Key Loader Interface Cable
• P25 GPS Location
• P25 OTAR Option

SCAN TYPES (FM & P25)
• Single Zone/Multi-Zone Scan
• Scan Lists
• Conventional Scan
• Limited Talk Group Scan
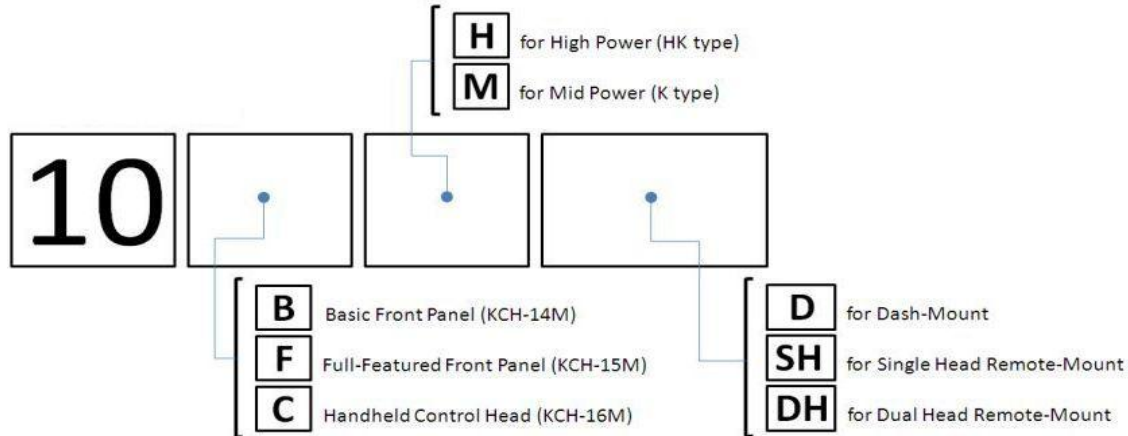• Priority Monitor Scan
• Dual Priority Scan

FM
• QT / DQT
• Operator Selectable Tone
• Two-Tone Encode / Decode
• DTMF Encode / Decode / Stun
• Special Alert Tone Patterns
• Horn Alert Output
• Encryption / ANI Board Control
• Companded Audio
• FleetSync® /II PTT ID / Caller ID Display / Emergency
• MDC-1200 PTT ID / Caller ID Display / Emergency

MODEL		LIST
TK-5710BGK	136-174MHz 10-50W 100 Zones/1024 Channels (R.F. DECK ONLY)	1,601.00
TK-5710HBGK	136-174MHz 50-110W 100 Zones/1024 Channels (R.F. DECK ONLY)	2,211.00
TK-5810BGK	450-520 MHz 5-45W 100 Zones/1024 Channels (R.F. DECK ONLY)	1,601.00
TK-5810BGK2	400-470 MHz 5-45W 100 Zones/1024 Channels (R.F. DECK ONLY)	1,601.00
TK-5810HBGK	450-520 MHz 50-100W 100 Zones/1024 Channels (R.F. DECK ONLY)	2,211.00
TK-5810HBGK2	400-470 MHz 50-100W 100 Zones/1024 Channels (R.F. DECK ONLY)	2,211.00

ACCESSORY CONFIGURATION SETS	*LIST*

CONFIGURATION SET DEFINITIONS

Dash Mount		**LIST**
10BHD	KCH-14M, KCT-23M2, KMB-9, KMC-27	683.50
10BMD	KCH-14M, KCT-23M, KMB-5, KMC-27	653.50
10FHD	KCH-15M, KCT-23M2, KMB-9, KMC-27, KES-5	744.75
10FMD	KCH-15M, KCT-23M, KMB-5, KMC-27, KES-5	714.75

Single Head Remote Mount		**LIST**
10BHSH	KCH-14M, KRK-5, KCT-22M2, KCT-23M4, KMB-9, KMC-27	921.00
10BMSH	KCH-14M, KRK-5, KCT-22M2, KCT-23M3, KMB-5, KMC-27	887.75
10FHSH	KCH-15M, KRK-5, KCT-22M2, KCT-23M4, KMB-9, KMC-27, KES-5	982.25
10FMSH	KCH-15M, KRK-5, KCT-22M2, KCT-23M3, KMB-5, KMC-27, KES-5	949.00

Dual Head Remote Mount		**LIST**
10BHDH	KCH-14M(x2), KRK-6DH, KCT-22M2(x2), KCT-23M4, KMB-9, KMC-27(x2)	1,718.00
10BMDH	KCH-14M(x2), KRK-6DH, KCT-22M2(x2), KCT-23M3, KMB-5, KMC-27(x2)	1,684.75
10FHDH	KCH-15M(x2), KRK-6DH, KCT-22M2(x2), KCT-23M4, KMB-9, KMC-27(x2), KES-5(x2)	1,840.50
10FMDH	KCH-15M(x2), KRK-6DH, KCT-22M2(x2), KCT-23M3, KMB-5, KMC-27(x2), KES-5(x2)	1,807.25

Handheld Control Head Remote		**LIST**
10CHSH	KCH-16M, KRK-11M, KCT-22M2, KCT-23M4, KMB-9, KES-5	1,056.75
10CMSH	KCH-16M, KRK-11M, KCT-22M2, KCT-23M3, KMB-9, KES-5	1,046.25

FRONT PANELS & REMOTE KITS (Order Configuration Sets for full install accessories)		**LIST**
KCH-14M	Basic Remote Control Head w/ 12 Alphanumeric Display (4W Front Speaker) **Note**: All KCH-14 / Basic Control Head configurations are shipped with the control heads 4W internal speaker enabled. Order L-1008 to enable the 13W external speaker output for KES-5 speaker use. This will disconnect the control heads internal 4W speaker !	504.00
KCH-15M	Full-Featured Remote Control Head w/ 14 Alphanumeric Display **Note**: requires an external speaker	504.00
KRK-5	Single Control Head Remote Mount Kit	147.00
KRK-6DH	Dual Control Head Remote Mount Kit	252.00

HANDHELD CONTROL HEAD REMOTE (Order Configuration Sets for full install accessories)		**LIST**
KCH-16M	Handheld Control Head for P25 Mobiles **Note**: requires KRK-11M, KCT-22M/M2/M3, & KES-5	546.00
KRK-11M	KCH-16M HHCH Interface Kit for Single Head Remote	283.50

CABLES		LIST
KCT-18	Ignition sense cable	13.70
KCT-22M	Control cable - 8 Feet	73.50
KCT-22M2	Control cable - 17 Feet (Standard accessory config. set cable)	84.00
KCT-22M3	Control cable - 25 Feet	94.50
KCT-23M	DC Cable (10-50W Dash mount)	31.50
KCT-23M2	DC Cable (50-110W Dash mount)	38.75
KCT-23M3	DC Cable (10-50W Remote mount)	34.75
KCT-23M4	DC Cable (50-110W Remote mount)	45.25

MOBILE INSTALLATION ACCESSORIES		LIST
KLF-2	Line Filter (suppresses alternator whine, 25dB, 25A max)	42.00
KMB-10	Key Lock Adapter for use with KMB-4/5/6	26.30
KMB-5	Medium Power Mounting Bracket (10-50W models)	14.00
KMB-9	Heavy Duty Mounting Bracket with built-in key lock	36.75

MICROPHONES AND SPEAKERS		LIST
KES-5	External Speaker (40W max input)	61.25
KMC-27	MIL-SPEC noise-canceling mobile hand microphone	104.00
KMC-28	MIL-SPEC DTMF noise-canceling mobile hand microphone	163.00
KMC-9B	Desk top microphone	96.50

SERVICE RELATED ACCESSORIES		LIST
KPG-43UM	USB Programming interface cable	158.50
KPG-94	KVL-3000/3000 Plus Interface Cable for TK-5x10 & TK-5x10G Mobiles	262.50
KPG-95DGNK	Windows® Programming Software for TK-5x10 & TK-5x10G Portables & Mobiles (Compliant with FCC Part 90 Narrowbanding) **Note:** Self-programming function is not available. **Analog & P25 Conventional Programming** A "Dealer-Level" License ID is included with each KPG-95D/DG(N)K which only permits full analog conventional and P25 conventional programming. Data files created with a "Network-Level Licensed" KPG-95D/95DG and containing P25 programmed P25 trunked network parameters can be loaded and viewed with a Dealer-Level Licensed KPG-95D/DG(N)K, but the trunked network parameters cannot be changed. **P25 Trunked Programming Capability (licensed by either 1 or 2 below):** **1. KPG-95DG(N)K with System Key File (*.SKF)- See L-989** • For all TK-5x10 radio platforms (VER1, 2, 3 or later). • 3-digit HEX System ID (HSID) and verifiable written authorization required from trunked system operator (SYSOP). • Purchase KPG-95DG(N)K & L-989 Network-Level License ID • Kenwood ships an encrypted *.SKF file on CD ROM • The *.SKF securely embeds/encrypts the 16-digit Network Level License ID & the HSID. **2. KPG-95DG(N)K with Advanced Network Keys (ANK's)** • For TK-5x10G/5410/5910 VER 3 or later radio platforms only. • SYSOPs: Refer to KWD-ANK-MK Master Key • Dealers/contractors: Refer to KWD-ANK-AK Access Key • KPG-95DG(N)K (V7.0 or later) supports up to 16 KWD-ANK-AK Access Keys (16 trunked networks).	628.00
KWD-ANK-AK	Access Key for KPG-95DGK P25 trunked programming **Notes:** • For TK-5x10G/5410/5910 VER 3 or later radio platforms only • Must be activated by a SYSOP with KWD-ANK-MK Master Key. • Must have KPG-95DG(N)K (V7.0 or later); L-989 is NOT required. • Battery Life: 3 years (non-serviceable; key must be replaced)	208.00

SERVICE RELATED ACCESSORIES (cont.)		LIST
KWD-ANK-MK	Master Key for activating KWD-ANK-AK Access Keys	500.00
	- Restricted Purchase Requirements -	
	Notes:	
	• For TK-5x10G/5410/5910 VER 3 or later radio platforms only.	
	• Sold to SYSOP or SYSOP authorized entities only	
	• Must have KPG-95DG(N)K (V7.0 or later) with L-989 Network-Level License ID	
	• SYSOP must provide 3-digit HEX HSID to Kenwood.	
	• Purchase KWD-ANK-AK Access Keys if needed.	
	• Battery Life: 3 years (non-serviceable; key must be replaced)	
*****************	**Contact Kenwood Parts for Price and Availability 800-367-7514 on the following:**	
K29-5276-03	Key Inserts for 90-Series/TK-5710/5810 (AN, D/A, DIM, HA, HC, IC, MON, OPT, OST, PA)	---
K29-5277-03	Key Inserts for 90-Series/TK-5710/5810 (RCL, RPT, SCN, SP, SPM, SQ, TA, <up arrow>, <down arrow>, 1x Clear key insert)	---
K29-5305-03	Key Inserts for 90-Series/TK-5710/5810 (CH1, CH2, CH3, CH4, CH5, AUXA, AUXB, AUXC, EMG, ORG)	---
K29-9353-13	Key Inserts for TK-5710/5810 (2TN, AD, AR, CLK, FNC, PBK, SCP, SEC, SEL, SES)	---
K29-9354-03	Key Inserts for TK-5710/5810 (GPS, STS, TAC, TON, RES, IDV, KDL, TGR, 2x Clear key inserts)	---
K29-9356-03	Key Inserts for TK-5710/5810 (PAG, SIT, SRC, 7 X Clear key inserts)	---

FRIMWARE OPTIONS		LIST
KWD-RK20	OTAR Option for KWD-AE20K Encryption Module in TK-5x10 series (OTAR in P25 Conventional & Trunked Modes)	830.00
	• **Requires KWD-AE20K module.**	
	• **L-1108** (for portable) & **L-1109** (for mobile) Installation (no charge)	
	• **L-1733** (for portable) & **L-1734** (for mobile) Field Upgrade Option	
	Note:	
	• Supports OTAR in P25 Conventional & Trunked modes (Not compatible with GK7 64 CH Model)	
	• Compatible with Motorola KMF P25 OTAR (excludes Motorola-proprietary non-TIA/P25 KMF features)	
	• Requires KPG-95D/DG(N) V7.10 or later for radio programming	
	• TK-5x10 VER2: Requires KPG-95D V5.40 or later for radio programming	
	• TK-5410/5910: Requires KPG-95D V6.00 or later for radio programming	
	• TK-5x10G: Requires KPG-95DG(N) for radio programming	
	• TK-5x10 VER2: Option deletes self-programming, cloning and analog FleetSync® (except PTT ID/Emergency) when installed.	
	KWD-RK20 is an U.S. DOC/BIS Export Controlled Item (ECCN 5D002A)	
	- See IMPORTANT NOTES -	
KWD-TR20	Trunking Option for TK-5210/5310/5210G/5310G, TK-5710/5810/5710G/5810G	334.00
	KWD-TR20 supoort:16 Trunking Network	
	Must order **L-1056** for factory installation, or **L-1068** for field-upgrade option	
	Note: KPG-95D/95DG(N) Requires Network Level License ID to program trunked network radio parameters (see KPG-95D/95DG(N) for purchase restrictions & requirements)	
	Compatible with TK-5210 Version 2 (SN 80600001 or later); TK-5310 (SN 809xxxxx or later); TK-5710 Version 2 (SN806xxxxx); TK-5810 (SN 809xxxxx or later);	
	All TK-5x10G Series are compatible	

SOFTWARE OPTIONS		LIST
KPG-113AE	AES/DES Encryption Software Key Loader for KWD-DE21K/KWD-AE21K	525.00
	Loads AES & DES keys on capable encryption modules	
	Note: KPG-113AE is a U.S. DOC/BIS Export Controlled Item (ECCN 5D002A)	
	- See IMPORTANT NOTES -	
KPG-114DE	DES Encryption Software Key Loader for KWD-DE21K/KWD-AE21K	368.00
	Loads DES keys only regardless of encryption module model	
	Note: KPG-114DE is a U.S. DOC/BIS Export Controlled Item (ECCN 5D992A.1)	
	- See IMPORTANT NOTES -	

OPTION MODULES		LIST
KWD-AE20K	AES FIPS140-2 & DES Encryption Module for TK-5x10, TK-5x10G & TK-5x20 Portables & Mobiles (except K7 Portable) [KWD-AE20K support] - Advanced Encryption Standard (AES): 256-bit symmetric key algorithm; NIST validated per FIPS140-2 - Data Encryption Standard (DES): 56-bit symmetric key algorithm. - 16 Multi-key List (user-selectable / per Personality programming) - Stores: 1024 keys & 1024 Common Key References (CKR) - Must order KWD-RK20 for OTAR capability - Order **L-1345** if installation is required. - KWD-AE20K requires: a Motorola KVL3000/+ & KVL-4000 Key Fill Devices and KMF P25 OTAR (excludes Motorola-proprietary non-TIA/P25 KMF features). F/W VA2.0.3 or later supports the KVL4000. - KWD-AE20K is an U.S. DOC/BIS Export Controlled Item (ECCN 5A002A.1) **- See IMPORTANT NOTES -**	998.00
KWD-AE21K	AES & DES Encryption Module for TK-5x10, TK-5x10G & TK-5x20 Portables & Mobiles (except K7 Portable) [KWD-AE20K support] - Advanced Encryption Standard (AES): 256-bit symmetric key algorithm; - Data Encryption Standard (DES): 56-bit symmetric key algorithm. - 16 Multi-key List (user-selectable / per Personality programming) - Stores: 1024 keys & 1024 Common Key References (CKR) Order **L-1346** if installation is required. **Note**: Requires KPG-113AE software key loader or Motorola KVL3000 Plus key loader device. KWD-AE21K is an U.S. DOC/BIS Export Controlled Item (ECCN 5A002A.1) **- See IMPORTANT NOTES -**	998.00
KWD-DE21K	DES Encryption Module for TK-5x10, TK-5x10G & TK-5x20 Portables & Mobiles [KWD-DE21K support] - Data Encryption Standard (DES): 56-bit symmetric key algorithm - 16 Multi-key List (user-selectable / per Personality programming) - Stores: 1024 keys & 1024 Common Key References (CKR) Order **L-1602** if installation is required **Note**: Requires KPG-114DE or KPG-113AE software key loader or Motorola KVL3000 Plus key loader device. KWD-DE21K is a U.S. DOC/BIS Export Controlled Item (ECCN 5A992A) **- See IMPORTANT NOTES -**	578.00
VGS-1	Voice Guide and Storage Unit **Note**: VGS-1 provides Auto-Record, Voice Memo & Playback; The Voice Guide (a.k.a annunciation) function is built-in to the TK-5710/5810 and does not require the VGS-1	87.50

GPS Option		LIST
GA25MCX	Garmin On-dash Style Magnetic base GPS Antenna for GPS15XL-W **Note:** shipped loose only; Install GA25MCX antenna to GPS15XL-W before vehicle install.	62.00
GPS15XL-W	Garmin Internal GPS Receiver Board (P25 Conventional) **Note**: • Provides GPS on P25 Conventional only (TIA-102.BAJB Tier I Location Service compliant; not for use over trunked systems) • Requires GA25MCX GPS antenna	130.25

INSTALLATION / TUNING CHARGES		LIST
L-862	Install Front Panel PF Key Label Inserts in TK-5x10, TK-5x10G & TK-x90 series Mobile (key names and positions must be specified)	15.00
L-864	KCT-22A Extended Control Head Cable (Specify length in 1 ft increments up to 50 ft. max.)	190.00
L-865	KCT-22A Extended Control Head Cable (Specify length in 1 ft. increments up to 100 ft. max.) **Extended control head cables**: Extended cables result in a loss of control head audio power. On KCH-14 use 13W audio output modifications per service manual Use a standard KCT-22 25 ft. or less cable for firmware installation. Normal KPG-95D radio programming is possible at extended lengths.	245.00
L-866	Modify KCT-23M2/M4 110W High Power DC Cables from 4 to 2 Conductors (1x23 ft. positive, 1x23 ft. negative; AWG #10) **Two Conductor Modification:** KCT-23M2 75/110W Dash Mount DC Cable (4 Conductor: 2x10 ft. positive, 2x10 ft. negative) KCT-23M4 75/110W Remote Mount DC Cable (4 Conductor: 2x23 ft. positive, 2x23 ft. negative)	75.00
L-962	Install VGS-1 Voice Guide & Storage Unit	25.00

INSTALLATION / TUNING CHARGES - CONT'D | LIST

L-989	KPG-95D/95DG(N) Network Level ID (encrypted data file) **Note**: Enables Trunked system programming privileges in a KPG-95DG(N)K. **- Restricted Purchase Requirements -** • 3-Digit HEX System ID (HSID) from SYSOP required • Must Purchase KPG-95DG(N)K (V7.0 or later) with L-989 • Kenwood ships an encrypted *.SKF file on CD ROM • Non-SYSOP entities ordering L-989 must provide verifiable written authorization from SYSOP to receive an *.SKF file. • The 16-digit Network Level License ID & 3-digit HEX HSID are securely encrypted & embedded in the *.SKF file.	132.00
L-1005	TK-5x10 & TK-5x10G Mobile Programming (Basic TX/RX check only with factory test freq.s or dealer/customer provided KPG-95D/95DG(N) data file)	125.00
L-1006	Modify TK-5x10 & TK-5x10G Mobile for Horn Alert relay output (1 amp max.; relay factory installed already)	25.00
L-1008	External Speaker modification for TK-5x10 & TK-5x10G mobile Control Head (13W) **Note**: All Basic Control Head (KCH-14M) configurations are shipped with the control heads 4W internal speaker enables. Order L-1008 to enable the 13W external speaker output for KES-5 speaker use. This will disconnect the control heads internal 4W speaker!	10.00
L-1028	Package Dash/Single Head Remote for TK-5x10 & TK-5x10G mobiles	17.00
L-1029	Package Dual Head Remote for TK-5x10 & TK-5x10G mobiles	34.00
L-1056	Install KWD-TR20 Trunking Option in TK-5710/5810 & TK-5710G/5810G (Must purchase KWD-TR20K separately)	N/C
L-1068	TK-5710/5810 & TK-5710G/5810G KWD-TR20 FIELD-UPGRADE (Must purchase KWD-TR20 separately)	42.00
L-1109	Install KWD-RK20 OTAR Option in TK-5x10 & TK-5x10G Mobiles (Must purchase KWD-RK20 separately)	N/C
L-1110	Package HHCH Remote for TK-5x10 & TK-5x10G mobiles	25.00
L-1345	Install KWD-AE20K in TK-5x10 & TK-5x10G Mobile (Must purchase module separately)	75.00
L-1346	Install KWD-AE21K in TK-5x10 & TK-5x10G Mobile (Must purchase module separately)	75.00
L-1602	Install KWD-DE21K in TK-5x10 & TK-5x10G Mobile (Must purchase module separately)	75.00
L-1734	KWD-RK20 Field Upgrade Option for TK-5x10/5x10G/5910 (Must purchase KWD-RK20 separately)	42.00

-- IMPORTANT NOTES --
Encryption modules, key loaders and radios containing encryption are export controlled by the U.S. Department of Commerce Bureau of Industry & Security EAR regulations and may either require an Export License, are eligible for a License Exception (ENC) or are exportable with No License Required (NLR) depending on the country, the consignee and the intended use. High level encryption is a special commodity that may require an export license to most countries. See www.bis.gov for more information regarding export regulations. DO NOT SHIP encryption items outside the U.S. without proper DOC/BIS Export Licenses and/or compliances.

Kenwood may request the following information to be submitted at time of order (this information must meet Kenwood internal approvals prior to shipment even if being returned to Kenwood later:

a) Initial Destination: Initial delivery point if different from Ultimate Destination
(customer distribution center, headquarters, dealership, manufacturer's representative)
* Business/Agency Name:
* Address:
* Contact Person Name:
* Contact Phone:
b) Ultimate Destination: Final delivery point(s); deployment/distribution
* Business/Agency Name:
* Address:
* Contact Person Name:
* Contact Phone:
c) Intended Use of Radios: Law enforcement, security, operations, etc.

KWD-AE20 AES FIPS140-2 SCM , NIST Validation & Customer Shipping
A secure delivery method direct to the end user customer is required by the NIST AES FIPS 140-2 validation rules. For U.S. Federal Government entities the SCM must ship from Kenwood USA Corporation directly to the end user customer by a trusted carrier (FEDEX, UPS or a designated Kenwood USA Corporation employee); shipping/handling by a dealer or other entity is not acceptable. This may or may not be required by local/state government agencies or business/industrial users. Please check with the end use customer about their AES encryption handling requirements before ordering. Kenwood will not be responsible for shipments of KWD-AE20K modules to erroneous destinations specified on an order.

KENWOOD

TK-5720 / 5820
VHF/UHF FM Analog & P25 Digital Mobile Radios

All 5X20 series mobiles include:
• Standard Microphone (KMC-35)
• Mounting Bracket
• DC Cable (KCT-23M)
• Blade Fuse
• Instruction Manual
• Premium Warranty: 3 Years*

* All Accessories / options: 1 Year

* TX Power is derated at 490-512 MHz
TK-5320: 450-489 MHz (45 W)
490-512 MHz (40 W)

GENERAL FEATURES
• 50W (136-174 MHz)
• 45W (400-470, 450-520, 380-400MHz)
• 128 Zones / 512 Channels
• Emergency Features
• Public Address (KAP-2 Required)
• Time Out Timer
• Busy Channel Lockout
• Ignition Sense
• Timed Power Off
• DB-25 & 9-Pin Accessory Connectors
• 9 Programmable AUX I/Os
• 2 Programmable AUX Outputs
• Transceiver Password
• Date & 12/24 Hour Time Clock
• Windows® Programming & Tuning
• Windows® Firmware Uploading
• Easy Option Ports (26-pin)
• Voice Guide & Storage (option)
• MIL-STD 810 C/D/E/F/G, IP-54
• MIL-STD Mic (included)
• MIL-STD 12-Key DTMF Mic Option

FRONT PANELS/CONTROL HEADS
• Dash & Remote Mount
• 14 Character Alphanumeric Aliases
• Backlit Dot Matrix LCD
• 3-Digit Sub-Display
• Function/Status LCD Icons
• RSSI Indicator
• Transmit/Busy/Call Alert/Warn LED
• On/Off Power Control
• 4 Up/Down Selectors
• 6 Front PF Keys
• Emergency/AUX Key
• 4W Speaker Audio

P25 DIGITAL
• P25 Digital Conventional
• AMBE+2™ Enhanced VOCODER
• Talk Group ID Lists
• Individual ID Lists
• Caller ID Display
• Remote Monitor / Check, Radio Inhibit
• Encryption Key Zeroize and Retention
• DES Encryption Module Option
• AES & DES Encryption Module Option
• KPG-115 Key Loader Interface Cable
• P25 Digital Trunking Option

SCAN TYPES (FM & P25)
• Single Zone/Multi-Zone Scan
• Scan Lists*
• Conventional Scan
• Limited Talk Group Scan*
• Priority Monitor Scan*
• Dual Priority Scan

FM
• QT / DQT
• Operator Selectable Tone
• Two-Tone Decode / Encode
• DTMF Encode / Decode / Stun
• Special Alert Tone Patterns
• Companded Audio

FleetSync® / II (FM)
• PTT ID Digital ANI
• Caller ID Display
• Status Messaging
• Emergency & Stun Statuses
• Selective & Group Call
• Text Messaging
• Send/Display GPS

MDC-1200
• PTT ID Digital ANI
• Caller ID Display
• Emergency Status
• Radio Check
• Radio Inhibit

MODEL		LIST
TK-5720K	136-174 MHz 50W, 512 CH / 128 Zone	1,301.00
TK-5820K	450-520 MHz 45W, 512 CH / 128 Zone	1,301.00
TK-5820K2	400-470 MHz 45W, 512 CH / 128 Zone	1,301.00
TK-5820K3	380-400 MHz 45W, 512 CH / 128 Zone **[For U.S. Federal Government & Export Sales Only]**	1,301.00

MOBILE INSTALLATION ACCESSORIES		LIST
KAP-2	Horn Alert/P.A. Relay Option	63.00
KCT-46	Ignition sense cable (plugs directly into mobile chassis ignition sense line)	13.70
KLF-2	Line Filter (suppresses alternator whine, 25dB, 25A max).	42.00
KMB-10	Key lock adapter	26.30
KRK-10	Remote Control Kit (a remote control cable (23 ft) is included)	105.00
KRK-13	Dual Control Head Kit (a control head, remote cables, and KMC-35 microphone included) **Note:** some operations have limitations. Please refer to Application Note avlb. on Kenwood Tools. **Order: L-1777 if installation is required.**	959.00
KCT-23M	DC Cable (35-50W Dash mount; pos/neg. 10 ft. leads)	31.50
KCT-23M3	DC Cable (35-50W Remote mount; pos.23 ft.; neg. 3.3. ft. leads)	34.75

CONTROL STATION INSTALLATION ACCESSORIES		LIST
KMC-9C	Control Station Desktop Microphone (8-pin mod. plug)	86.00
KMB-24	Control Station Mounting Case for KPS-15 Power Supplies (mobile mounting hardware included)	42.00
KPS-15	DC Switching Power Supply (117/230 VAC; 23A max. continuous, 25A peak)	173.00

MICROPHONES AND SPEAKERS		LIST
KMC-35	MIL-SPEC Standard electret mobile microphone (8-pin mod. plug) - same as supplied	52.50
KMC-36	MIL-SPEC Standard electret mobile microphone with 12 keypad (8-pin mod. plug)	94.50
KMC-27A	MIL-SPEC & Noise Canceling dynamic mobile microphone (8-pin mod. plug)	104.00
KMC-27B	Standard dynamic mobile microphone (8-pin mod. plug)	42.00
KMC-28A	MIL-SPEC & Noise Canceling dynamic mobile microphone (8-pin mod. plug) w/ DTMF	163.00
KMC-9C	Control Station Desktop Microphone (8-pin mod. plug)	86.00
KES-3S	External speaker (compact low profile; black case; 3.5 mm phono plug-in)	44.25
KES-5	External speaker, 40W max input **Note:** requires KAP-2 (PA/HA unit) installed	61.25

SOFTWARE OPTIONS		LIST
KPG-113AE	AES/DES Encryption Software Key Loader for KWD-DE21K/KWD-AE21K KPG-113AE is a U.S. DOC/BIS Export Controlled Item (ECCN 5D002A) **- See IMPORTANT NOTES -**	525.00
KPG-114DE	DES Encryption Software Key Loader for KWD-DE21K/KWD-AE21K KPG-114DE is a U.S. DOC/BIS Export Controlled Item (ECCN 5D992A.1) **- See IMPORTANT NOTES -**	368.00
KWD-TR30	Trunking Option for TK-5220/5320, TK-5720/5820 KWD-TR30 supoort:1 Trunking Network Must order **L-1695** for factory installation, or **L-1697** for field-upgrade option **Note**: KPG-112D(N) Ver2.0 or later Requires Network Level License ID to program trunked network radio parameters (see KPG-112D(N) for purchase restrictions & requirements)	250.00

OPTION MODULES		LIST
KWD-AE20K	AES FIPS140-2 & DES Encryption Module for TK-5*10 and 5*20 Portables & Mobiles **Order L-1657** if installation is required. KWD-AE20K requires: a Motorola KVL3000 Plus key loader device. KWD-AE20K is an U.S. DOC/BIS Export Controlled Item (ECCN 5A002A.1) **- See IMPORTANT NOTES -**	998.00
KWD-AE21K	AES & DES Encryption Module for TK-5*10 and 5*20 Portables & Mobiles **Order L-1658** if installation is required. **Note**: Requires KPG-113AE software key loader or Motorola KVL3000 Plus key loader device. KWD-AE21K is an U.S. DOC/BIS Export Controlled Item (ECCN 5A002A.1) **- See IMPORTANT NOTES -**	998.00
KWD-DE21K	DES Encryption Module for TK-5*10 and 5*20 Portables & Mobiles **Order L-1659** if installation is required **Note**: Requires KPG-114DE or KPG-113AE software key loader or Motorola KVL3000 Plus key loader device KWD-DE21K is a U.S. DOC/BIS Export Controlled Item (ECCN 5A992A) **- See IMPORTANT NOTES -**	578.00
VGS-1	Voice Guide and Storage Unit	87.50

GPS Option		LIST
GPS15XL-W	Garmin Internal GPS Receiver Board for FleetSync® AVL **Note**: • Provides GPS on Analog Conventional • Requires GA25MCX GPS antenna • Refer to 5720/5820-Series Service Manuals for installation. Refer to www.garmin.com for GPS15XL-W technical specifications. • Option: Order **L-1655** for Kenwood Long Beach installation.	130.25
GA25MCX	Garmin On-dash Style Magnetic base GPS Antenna for GPS15XL-W **Note:** shipped loose only; Install GA25MCX antenna to GPS15XL-W before vehicle install.	62.00

SERVICE RELATED ACCESSORIES		LIST
KPG-46UM	USB Programming interface cable	158.50
KPG-112DNK	Windows® Programming Software for TK-5*20 Series (Compliant with FCC Part 90 Narrowbanding)	103.25
KPG-115	Key Loader Interface Cable for Motorola KVL-3000/3000 Plus	262.50

INSTALLATION / TUNING CHARGES		LIST
L-1645	Install VGS-1 Voice Guide & Storage Unit	25.00
L-1652	TK-5720/5820 Programming (Basic TX/RX check only with factory test freq.s or dealer/customer provided KPG-112D(N) data file)	125.00
L-1653	TK-5720/5820 Install KAP-2 (Default) HR1/Internal Sp./PA	25.00
L-1654	TK-5720/5820 Install KAP-2 HR1/External Sp./PA	25.00
L-1655	Install Garmin GPS15XL-W in TK-5720/5820 mobiles for FleetSync® AVL	100.00
L-1656	Assemble TK-5720/5820 with KRK-10 Remote Kit	42.00
L-1657	Install KWD-AE20K in TK-5720/5820 Mobile (Must purchase module separately)	75.00
L-1658	Install KWD-AE21K in TK-5720/5820 Mobile (Must purchase module separately)	75.00
L-1659	Install KWD-DE21K in TK-5720/5820 Mobile (Must purchase module separately)	75.00
L-1695	Install KWD-TR30 Trunking Option in TK-5720/5820 (Must purchase KWD-TR30 separately)	N/C
L-1697	TK-5720/5820 KWD-TR30 FIELD-UPGRADE (Must purchase KWD-TR30 separately)	N/C
L-1698	KPG-112D(N) Network Level ID (encrypted data file) **Note**: Enables Trunking system programming privileges; See KPG-112D(N) Network Level ID (Trunking System Privileges) **- Restricted Purchase Requirements -** L-1698- KPG-112D(N) Network Level ID (Trunking System Privileges) The KPG-112D(N) only ships with a "Dealer Level License ID" which permits Conventional FM and P25 Conventional radio programming privileges only. For radios with the P25 Trunking option installed, trunked/network programming privileges require a "Network Level License ID" generally reserved ONLY for the system owner or the system owners authorized operators/service centers. Purchasing the KPG-112D(N) Network Level License ID will require 1) Written verifiable authorization from the systems owner/operator. 2) The 3-digit hexadecimal P25 System ID from the system owner/operator. 3) Purchase of a L-1698 : KPG-112D(N) Network Level ID option. This option will include an encrypted KPG-112D(N) "System Key Data File" containing the 16-digit Network Level License ID & 3-digit hexadecimal System ID code.	132.00
L-1777	Assemble TK-5720/5820 with KRK-13 Dual Remote Kit	42.00

-- IMPORTANT NOTES --

Encryption modules, key loaders and radios containing encryption are export controlled by the U.S. Department of Commerce Bureau of Industry & Security EAR regulations and may either require an Export License, are eligible for a License Exception (ENC) or are exportable with No License Required (NLR) depending on the country, the consignee and the intended use. High level encryption is a special commodity that may require an export license to most countries. See www.bis.gov for more information regarding export regulations. DO NOT SHIP encryption items outside the U.S. without proper DOC/BIS Export Licenses and/or compliances.

Kenwood may request the following information to be submitted at time of order (this information must meet Kenwood internal approvals prior to shipment even if being returned to Kenwood later:

a) Initial Destination: Initial delivery point if different from Ultimate Destination
(customer distribution center, headquarters, dealership, manufacturer's representative)
* Business/Agency Name:
* Address:
* Contact Person Name:
* Contact Phone:
b) Ultimate Destination: Final delivery point(s); deployment/distribution
* Business/Agency Name:
* Address:
* Contact Person Name:
* Contact Phone:
c) Intended Use of Radios: Law enforcement, security, operations, etc.

KWD-AE20 AES FIPS140-2 SCM , NIST Validation & Customer Shipping
A secure delivery method direct to the end user customer is required by the NIST AES FIPS 140-2 validation rules. For U.S. Federal Government entities the SCM must ship from Kenwood USA Corporation directly to the end user customer by a trusted carrier (FEDEX, UPS or a designated Kenwood USA Corporation employee); shipping/handling by a dealer or other entity is not acceptable. This may or may not be required by local/state government agencies or business/industrial users. Please check with the end use customer about their AES encryption handling requirements before ordering. Kenwood will not be responsible for shipments of KWD-AE20K modules to erroneous destinations specified on an order.

TK-5910

700/800 MHz FM Analog & P25 Digital Mobile Radio

5910 series mobile includes:
• RF Deck Only
(Configuration Set & Assembly Labor Code must be order for a Complete Mobile.)
• Premium Warranty: 3 Years*

* All Accessories / options: 1 Year

GENERAL FEATURE
• 30W (763-806 MHz)
• 35W (806-870 MHz)
• 100 Zones / 1024 Channels
• Personality Lists
• Zone/CH Voice Announce
• Emergency Features
• Intercom
• Public Address
• Time Out Timer
• Busy Channel Lockout
• Ignition Sense
• Timed Power Off
• DB-25 & 9-Pin Accessory Connectors
• Transceiver Password
• Date & 12/24 Hour Time Clock
• Windows® Programming & Tuning
• Windows® Firmware Uploading
• Field-Programming & Tuning
• Voice Guide & Storage (option)
• MIL-STD 810 C/D/E/F/G, IP-54
• MIL-STD Noise-Cancel Mic (included)
• MIL-STD 12-Key DTMF Mic Option

MOUNTING CONFIGURATIONS
• Dash Mount
• Single Control Head Remote Mount
• Handheld Control Remote Mount
• Dual Control Head Remote Mount

FRONT PANELS/CONTROL HEADS
• Backlit Dot Matrix LCD
• 3-Digit Sub-Display
• Transmit LED
• Busy/Call Alert/Warn LED
• LCD Brightness Control
• Backlit Keys
• MIL-STD 810 512.X Driven Rain

KCH-14 Front Panel
• 12-Character Alphanumeric Aliases
• 5 PF & UP/DOWN Keys
• PF Key Label Inserts
• Built-in Front Speaker
KCH-15 Front Panel
• 14-Character Alphanumeric Aliases
• 11 PF Keys & UP/DOWN Keys
• PF Key Label Inserts
• External Speaker Required
KHC-16 Handheld Control Head
• 14-Character Alphanumeric Aliases
• 5 PF Keys & UP/DOWN/LEFT/RIGHT Keys
• Front PF Keys Name Display
• 12-Key DTMF/Function Keypad
• External Speaker Required

P25 DIGITAL
• P25 Digital Conventional
• P25 Digital Trunking
• AMBE+2™ Enhanced VOCODER
• Talk Group ID Lists
• Individual ID Lists
• Caller ID Display
• RSSI Indicator
• Remote Monitor / Check, Radio Inhibit
• Encryption Key Zeroize & Retention
• DES Encryption Module Option
• AES & DES Encryption Module Option
• KPG-43AM Radio Program/Soft-Key Loader Cable
• KPG-94 KVL Device Key Loader Cable
• P25 GPS Location
• P25 OTAR Option

SCAN TYPES (FM & P25)
• Single Zone/Multi-Zone Scan
• Scan Lists
• Conventional Scan
• Limited Talk Group Scan
• Priority Monitor Scan
• Dual Priority Scan

FM
• QT / DQT
• Operator Selectable Tone
• DTMF Encode
• Horn Alert Output
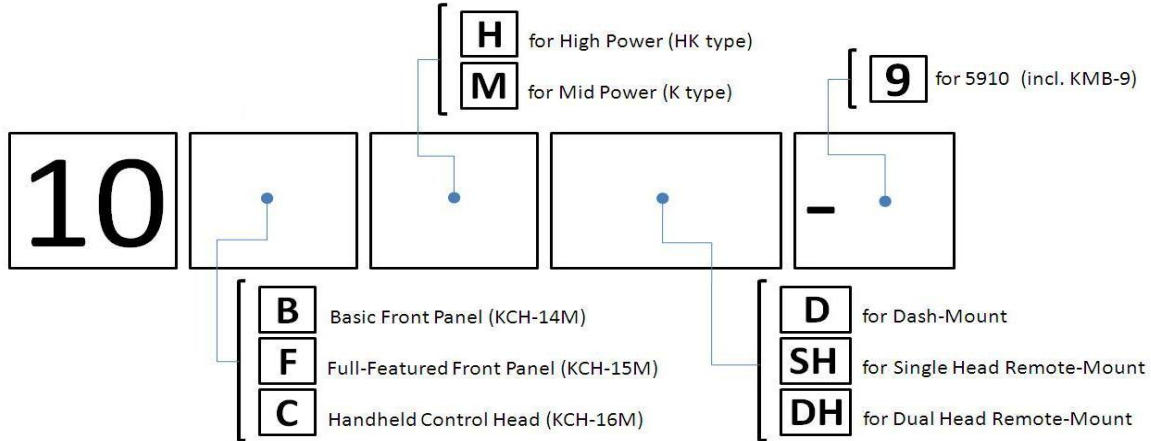• Companded Audio
• NPSPAC Channels

MODEL		LIST
TK-5910BK	700/800 MHz 2-30/35W 100 Zones/1024 Channels (R.F. DECK ONLY)	1,875.00

ACCESSORY CONFIGURATION SETS	LIST

CONFIGURATION SET DEFINITIONS

H for High Power (HK type)
M for Mid Power (K type)
9 for 5910 (incl. KMB-9)

10 . . . –

B Basic Front Panel (KCH-14M)
F Full-Featured Front Panel (KCH-15M)
C Handheld Control Head (KCH-16M)

D for Dash-Mount
SH for Single Head Remote-Mount
DH for Dual Head Remote-Mount

Dash Mount		LIST
10BMD-9	KCH-14M, KCT-23M, KMB-9, KMC-27	676.25
10FMD-9	KCH-15M, KCT-23M, KMB-9, KMC-27, KES-5	737.50

Single Head Remote Mount		LIST
10BMSH-9	KCH-14M, KRK-5, KCT-22M2, KCT-23M3, KMB-9, KMC-27	910.50
10FMSH-9	KCH-15M, KRK-5, KCT-22M2, KCT-23M3, KMB-9, KMC-27, KES-5	971.75

Dual Head Remote Mount		LIST
10BMDH-9	KCH-14M(x2), KRK-6DH, KCT-22M2(x2), KCT-23M3, KMB-9, KMC-27(x2)	1,707.50
10FMDH-9	KCH-15M(x2), KRK-6DH, KCT-22M2(x2), KCT-23M3, KMB-9, KMC-27(x2), KES-5(x2)	1,830.00

Handheld Control Head Remote		LIST
10CMSH	KCH-16M, KRK-11M, KCT-22M2, KCT-23M3, KMB-9, KES-5	1,046.25

FRONT PANELS & REMOTE KITS (Order Configuration Sets for full install accessories)		LIST
KCH-14M	Basic Remote Control Head w/ 12 Alphanumeric Display (4W Front Speaker) **Note**: All KCH-14 / Basic Control Head configurations are shipped with the control heads 4W internal speaker enabled. Order L-1008 to enable the 13W external speaker output for KES-5 speaker use. This will disconnect the control heads internal 4W speaker !	504.00
KCH-15M	Full-Featured Remote Control Head w/ 14 Alphanumeric Display **Note**: requires an external speaker	504.00
KRK-5	Single Control Head Remote Mount Kit	147.00
KRK-6DH	Dual Control Head Remote Mount Kit	252.00

HANDHELD CONTROL HEAD REMOTE (Order Configuration Sets for full install accessories)		LIST
KCH-16M	Handheld Control Head for P25 Mobiles **Note**: requires KRK-11M, KCT-22M/M2/M3, & KES-5	546.00
KRK-11M	KCH-16M HHCH Interface Kit for Single Head Remote	283.50

CABLES		LIST
KCT-18	Ignition sense cable	13.70
KCT-22M	Control cable - 8 Feet	73.50
KCT-22M2	Control cable - 17 Feet (Standard accessory config. set cable)	84.00
KCT-22M3	Control cable - 25 Feet	94.50
KCT-23M	DC Cable (Dash mount)	31.50
KCT-23M3	DC Cable (Remote mount)	34.75

MOBILE INSTALLATION ACCESSORIES — LIST

KLF-2	Line Filter (suppresses alternator whine, 25dB, 25A max)	42.00
KMB-9	Heavy Duty Mounting Bracket with built-in key lock	36.75

MICROPHONES AND SPEAKERS — LIST

KES-5	External Speaker (40W max input)	61.25
KMC-27	MIL-SPEC noise-canceling mobile hand microphone	104.00
KMC-28	MIL-SPEC DTMF noise-canceling mobile hand microphone	163.00
KMC-9B	Desk top microphone	96.50

SERVICE RELATED ACCESSORIES — LIST

KPG-95DGK	Windows® Programming Software for TK-5x10 & TK-5x10G Portables & Mobiles (Compliant with FCC Part 90 Narrowbanding) **Note:** Self-programming function is not available. **Analog & P25 Conventional Programming** A "Dealer-Level" License ID is included with each KPG-95D/DG(N)K which only permits full analog conventional and P25 conventional programming. Data files created with a "Network-Level Licensed" KPG-95D/95DG(N) and containing P25 programmed P25 trunked network parameters can be loaded and viewed with a Dealer-Level Licensed KPG-95D/DG(N)K, but the trunked network parameters cannot be changed. **P25 Trunked Programming Capability (licensed by either 1 or 2 below):** **1. KPG-95DG(N)K with System Key File (*.SKF)- See L-989** • For all TK-5x10 radio platforms (VER1, 2, 3 or later). • 3-digit HEX System ID (HSID) and verifiable written authorization required from trunked system operator (SYSOP). • Purchase KPG-95DG(N)K & L-989 Network-Level License ID • Kenwood ships an encrypted *.SKF file on CD ROM • The *.SKF securely embeds/encrypts the 16-digit Network Level License ID & the HSID. **2. KPG-95DG(N)K with Advanced Network Keys (ANK's)** • For TK-5x10G/5410/5910 VER 3 or later radio platforms only. • SYSOPs: Refer to KWD-ANK-MK Master Key • Dealers/contractors: Refer to KWD-ANK-AK Access Key	628.00
KWD-ANK-MK	Master Key for activating KWD-ANK-AK Access Keys **- Restricted Purchase Requirements -** **Notes:** • For TK-5x10G/5410/5910 VER 3 or later radio platforms only. • Sold to SYSOP or SYSOP authorized entities only • Must have KPG-95DG(N)K (V7.0 or later) with L-989 Network-Level License ID • SYSOP must provide 3-digit HEX HSID to Kenwood. • Purchase KWD-ANK-AK Access Keys if needed. • Battery Life: 3 years (non-serviceable; key must be replaced)	500.00
KWD-ANK-AK	Access Key for KPG-95DG(N)K P25 trunked programming **Notes:** • For TK-5x10G/5410/5910 VER 3 or later radio platforms only • Must be activated by a SYSOP with KWD-ANK-MK Master Key. • Must have KPG-95DG(N)K (V7.0 or later); L-989 is NOT required. • Battery Life: 3 years (non-serviceable; key must be replaced)	208.00
KPG-43UM	USB Programming interface cable	158.50
KPG-94	Key Loader Interface Cable for Motorola KVL-3000/3000 Plus	262.50
***************** K29-5276-03	**Contact Kenwood Parts for Price and Availability 800-367-7514 on the following:** Key Inserts for 90-Series/TK-5710/5810/5910 (AN, D/A, DIM, HA, HC, IC, MON, OPT, OST, PA)	---
K29-5277-03	Key Inserts for 90-Series/TK-5710/5810/5910 (RCL, RPT, SCN, SP, SPM, SQ, TA, <up arrow>, <down arrow>, 1x Clear key insert)	---
K29-5305-03	Key Inserts for 90-Series/TK-5710/5810/5910 (CH1, CH2, CH3, CH4, CH5, AUXA, AUXB, AUXC, EMG, ORG)	---
K29-9353-13	Key Inserts for TK-5710/5810/5910 (2TN, AD, AR, CLK, FNC, PBK, SCP, SEC, SEL, SES)	---
K29-9354-03	Key Inserts for TK-5710/5810/5910 (GPS, STS, TAC, TON, RES, IDV, KDL, TGR, 2x Clear key inserts)	---
K29-9356-03	Key Inserts for TK-5710/5810/5910 (PAG, SIT, SRC, 7 X Clear key inserts)	---

FRIMWARE OPTIONS — LIST

KWD-RK20	OTAR Option for KWD-AE20K Encryption Module in TK-5x10 series (OTAR in P25 Conventional & Trunked Modes) • **Requires KWD-AE20K module.** • <u>L-1108</u> (for portable) & <u>L-1109</u> (for mobile) Installation (no charge) • <u>L-1733</u> (for portable) & <u>L-1734</u> (for mobile) Field Upgrade Option <u>Note:</u> • Supports OTAR in P25 Conventional & Trunked modes (Not compatible with GK7 64 CH Model) • Compatible with Motorola KMF P25 OTAR (excludes Motorola-proprietary non-TIA/P25 KMF features) • Requires KPG-95D/DG(N) V7.10 or later for radio programming • TK-5x10 VER2: Requires KPG-95D V5.40 or later for radio programming • TK-5410/5910: Requires KPG-95D V6.00 or later for radio programming • TK-5x10G: Requires KPG-95DG(N) for radio programming • TK-5x10 VER2: Option deletes self-programming, cloning and analog FleetSync® (except PTT ID/Emergency) when installed. KWD-RK20 is an U.S. DOC/BIS Export Controlled Item (ECCN 5D002A) **- See IMPORTANT NOTES -**	830.00

SOFTWARE OPTIONS — LIST

KPG-113AE	AES/DES Encryption Software Key Loader for KWD-DE21K/KWD-AE21K KPG-113AE is a U.S. DOC/BIS Export Controlled Item (ECCN 5D002A) **- See IMPORTANT NOTES -**	525.00
KPG-114DE	DES Encryption Software Key Loader for KWD-DE21K/KWD-AE21K KPG-114DE is a U.S. DOC/BIS Export Controlled Item (ECCN 5D992A.1) **- See IMPORTANT NOTES -**	368.00

OPTION MODULES — LIST

KWD-AE20K	AES FIPS140-2 & DES Encryption Module for TK-5*10 and 5*20 Portables & Mobiles **Order** a Labor Code **(L-1345)** if installation is required. KWD-AE20K requires: a Motorola KVL3000 Plus key loader device. KWD-AE20K is an U.S. DOC/BIS Export Controlled Item (ECCN 5A002A.1) **- See IMPORTANT NOTES -**	998.00
KWD-AE21K	AES & DES Encryption Module for TK-5*10 and 5*20 Portables & Mobiles **Order** a Labor Code (<u>L-1346</u>) if installation is required. **Note**: Requires KPG-113AE software key loader or Motorola KVL3000 Plus key loader device. KWD-AE21K is an U.S. DOC/BIS Export Controlled Item (ECCN 5A002A.1) **- See IMPORTANT NOTES -**	998.00
KWD-DE21K	DES Encryption Module for TK-5*10 and 5*20 Portables & Mobiles **Order** a Labor Code (<u>L-1602</u>) if installation is required **Note**: Requires KPG-114DE or KPG-113AE software key loader or Motorola KVL3000 Plus key loader device KWD-DE21K is a U.S. DOC/BIS Export Controlled Item (ECCN 5A992A) **- See IMPORTANT NOTES -**	578.00

INSTALLATION / TUNING CHARGES — LIST

L-862	Install Front Panel PF Key Label Inserts in TK-5*10/90-series Mobile (key names and positions must be specified)	15.00
L-864	KCT-22A Extended Control Head Cable (Specify length in 1 ft increments up to 50 ft. max.)	190.00
L-865	KCT-22A Extended Control Head Cable (Specify length in 1 ft. increments up to 100 ft. max.) **Extended control head cables**: Extended cables result in a loss of control head audio power. On KCH-14 use 13W audio output modifications per service manual Use a standard KCT-22 25 ft. or less cable for firmware installation. Normal KPG-95D radio programming is possible at extended lengths.	245.00
L-962	Install VGS-1 Voice Guide & Storage Unit	25.00

INSTALLATION / TUNING CHARGES - CONT'D		LIST
L-989	KPG-95D/95DG(N) Network Level ID (encrypted data file) **Note**: Enables Trunked system programming privileges in a KPG-95DG(N)K. **- Restricted Purchase Requirements -** • 3-Digit HEX System ID (HSID) from SYSOP required • Must Purchase KPG-95DG(N)K (V7.0 or later) with L-989 • Kenwood ships an encrypted *.SKF file on CD ROM • Non-SYSOP entities ordering L-989 must provide verifiable written authorization from SYSOP to receive an *.SKF file. • The 16-digit Network Level License ID & 3-digit HEX HSID are securely encrypted & embedded in the *.SKF file.	132.00
L-1005	TK-5*10 Programming (Basic TX/RX check only with factory test freq.s or dealer/customer provided KPG-95D/DG(N) data file)	125.00
L-1008	External Speaker modification for TK-5*10 mobile Control Head (13W) **Note**: All Basic Control Head (KCH-14M) configurations are shipped with the control heads 4W internal speaker enables. Order L-1008 to enable the 13W external speaker output for KES-5 speaker use. This will disconnect the control heads internal 4W speaker!	10.00
L-1028	Package Dash/Single Head Remote for 5*10 mobiles	17.00
L-1029	Package Dual Head Remote for 5*10 mobiles	34.00
L-1110	Package HHCH Remote for 5*10 mobiles	25.00
L-1345	Install KWD-AE20K in TK-5*10 Mobile (Must purchase module separately)	75.00
L-1346	Install KWD-AE21K in TK-5*10 Mobile (Must purchase module separately)	75.00
L-1602	Install KWD-DE21K in TK-5*10 Mobile (Must purchase module separately)	75.00
L-1734	KWD-RK20 Field Upgrade Option for TK-5x10/5x10G/5910 (Must purchase KWD-RK20 separately)	42.00

-- IMPORTANT NOTES --

Encryption modules, key loaders and radios containing encryption are export controlled by the U.S. Department of Commerce Bureau of Industry & Security EAR regulations and may either require an Export License, are eligible for a License Exception (ENC) or are exportable with No License Required (NLR) depending on the country, the consignee and the intended use. High level encryption is a special commodity that may require an export license to most countries. See www.bis.gov for more information regarding export regulations. DO NOT SHIP encryption items outside the U.S. without proper DOC/BIS Export Licenses and/or compliances.

Kenwood may request the following information to be submitted at time of order (this information must meet Kenwood internal approvals prior to shipment even if being returned to Kenwood later:

a) Initial Destination: Initial delivery point if different from Ultimate Destination
(customer distribution center, headquarters, dealership, manufacturer's representative)
* Business/Agency Name:
* Address:
* Contact Person Name:
* Contact Phone:
b) Ultimate Destination: Final delivery point(s); deployment/distribution
* Business/Agency Name:
* Address:
* Contact Person Name:
* Contact Phone:
c) Intended Use of Radios: Law enforcement, security, operations, etc.

KWD-AE20 AES FIPS140-2 SCM , NIST Validation & Customer Shipping
A secure delivery method direct to the end user customer is required by the NIST AES FIPS 140-2 validation rules. For U.S. Federal Government entities the SCM must ship from Kenwood USA Corporation directly to the end user customer by a trusted carrier (FEDEX, UPS or a designated Kenwood USA Corporation employee); shipping/handling by a dealer or other entity is not acceptable. This may or may not be required by local/state government agencies or business/industrial users. Please check with the end use customer about their AES encryption handling requirements before ordering. Kenwood will not be responsible for shipments of KWD-AE20K modules to erroneous destinations specified on an order.

KENWOOD

WSCA 06913

This searchable pdf document contains all Kenwood radio equipment offered through WSCA contract number 06913 The prices shown are Manufacturers Suggested Retail Price (MSRP) and the discount off the shown price is 30%

Tier III, Single Band, Mobile And Portable Radios And Accessories

Contract Discount Is 30% Off Shown MSRP
Services; Per Hour Cost
Equipment configuration and System Design $150.00
Technical Support Services $150.00
Equipment Installation $115.00
Equipment Repair $115.00
Training $115.00

Page 1 of 1   Title Page

KENWOOD

Table of Contents:

NEXEDGE™
P25

NX-5200/5300

VHF/UHF Digital & FM Analog Portable Radios

STANDARD

■ GENERAL FEATURES

- 5 W (136-174 MHz) Models
- 5 W (380-470, 450-520 MHz) Models
- 1024 CH-GID / 128 Zones
- Standard Key Models (w/o numeric keypad)
- Full Key Models (w/ numeric keypad)
- Full Color 1.74" (240 x 180 pixels) Transflective TFT Display
- Multi-line Text Display
- Function/Status Icons
- Multi-Language Display*
- Date & 12/24 Hour Time Clock
- Transmit/Busy/Call Alert/Warn LED
- On/Off Volume Knob
- 16-Position Mechanical Selector (w/ a stopper)
- 4-way Directional-pad (D-pad)
- 2 Position Lever Switch
- Emergency/AUX Key
- 3 Side PF Keys
- 1W Speaker Audio
- Emergency Call Features
- Built-in GPS Receiver / Antenna
- Built-in Bluetooth® Module for hands-free operation
- Built-in Motion Sensor
- Built-in 56-bit DES Encryption *
- Active Noise Reduction (ANR)
- KPG-D1N Windows® FPU
- Flash Firmware Upgrading
- MIL-STD-810 C/D/E/F/G
- IP67/68 Immersion

■ DIGITAL–NXDN® MODE

- NXDN® Conventional / TYPE-C Trunking
- AMBE+2™ VOCODER
- 6.25 & 12.5 kHz Channels
- Over-the-Air Alias
- Over-the-Air Programming (requires KPG-180AP OTAP Manager Software)*
- Paging Call *
- Emergency Call
- All Group Call
- Status Messaging
- Remote Stun/Kill/Check
- Short & Long Data Messages
- GPS Location
- NXDN® Scrambler

■ ANALOG MODE

- Conventional Zones
- LTR® Zones *
- FleetSync®/II*: PTT ID ANI, Caller ID Display, Selective/Group Call, Emergency Status, Text Messages
- MDC-1200*: PTT ID ANI, Caller ID Display, Emergency, Radio Check & Inhibit
- QT / DQT
- Two-Tone* (Conventional Zones Only)
- DTMF*
- Built-in Voice Inversion Scrambler

* Future Availability

<Standard Key Model >   <Full Key Model >

All NX-5000 series portables include:
- Belt Clip (KBH-11)
- Universal Connector Cap
- User Guide
- Premium Warranty: 3 Years**

All Accessories / options: 1 Year

Purchase Battery, Charger, Antenna separately

** **Note:** To maintain immersion specs (IP67/68), all warranty service must be done by one of the three National Kenwood Authorized Service Centers. IP67/68 Certification is valid under the 3 year premium warranty. No re-certification is available.

Because of spurious signal (birdie), the following frequencies (and ±10kHz ranges) are not allowed;

• 144.0000	• 384.0000	• 460.8000
• 147.4560	• 403.2000	• 480.0000
• 153.6000	• 422.4000	• 499.2000
• 172.0325	• 432.0000	• 518.4000
• 172.8000	• 441.6000	

OPTIONAL

■ GENERAL FEATURES

- 4000 CH-GID / 128 Zones (KWD-5000CH License Key Activation required)
- Front Panel Programming (KWD-5001FP License Key Activation required)
- microSD/microSDHC Memory Card Slot (KWD-5002SD License Key Activation required)
- Built-in Bluetooth® Module for Data (KWD-5003BT** License Key Activation required)
- 256-bit AES Encryption (KWD-AE30K/31K Encryption Module required)
- Battery Management Solution (KSC-Y32K Charger & KAS-12K Software License Key required)
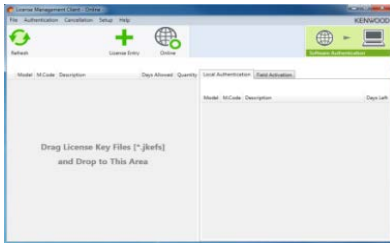
■ DIGITAL – P25 MODE

- Conventional Features (KWD-5100CV License Key Activation required)
- Phase 1 Trunking Features (KWD-5100CV & 5101TR License Keys Activation required)
- Phase 2 Trunking Features (KWD-5100CV & 5101TR & 5102TR License Keys Activation required)
- Conventional OTAR (KWD-5103RK License Key Activation required)
- Trunking OTAR (KWD-5103RK & 5106DT License Keys Activation required)
- Conventional Voting Scan (KWD-5105VT** License Key Activation required)
- Packet Data required for Trunked OTAR/GPS/Text (KWD-5106DT License Keys Activation required)

** Future Availability

RADIO		LIST
Standard Key Models		
NX-5200K2	VHF (136-174MHz), 5.0 Watts NXDN Conventional / TYPE-C Trunking	$ 825.00
NX-5300K2	UHF (450-520MHz), 5.0 Watts NXDN Conventional / TYPE-C Trunking	$ 825.00
NX-5300K5	UHF (380-470MHz), 5.0 Watts NXDN Conventional / TYPE-C Trunking	$ 825.00
Full Key Models		
NX-5200K3	VHF (136-174MHz), 5.0 Watts NXDN Conventional / TYPE-C Trunking	$ 875.00
NX-5300K3	UHF (450-520MHz), 5.0 Watts NXDN Conventional / TYPE-C Trunking	$ 875.00
NX-5300K6	UHF (380-470MHz), 5.0 Watts NXDN Conventional / TYPE-C Trunking	$ 875.00

LICENSING SYSTEM	**LIST**

Note: KPT-300LMC is compatible with Windows Vista/7/8/8.1 Only. Windows XP is not supported.

KPT-300LMC
License Management Client

KPT-300LMC is a required software package that is used to authenticate **software** (FPU) and **radio feature license** keys for the NX-5000 Series radios.

KPT-300LMC is available as a free download from Kenwood Tools and is also supplied with applicable software, such as KPG-D1NK, KAS-12, and KPG-AE1/DE1.

NOTE: A license key is required for the KPT-300LMC to authenticate the software prior to use. To receive a license key, complete the enclosed "**Account Request Form**" and return to the Land Mobile Order Desk.

License Keys will be E-Mailed to the address provided on the Account Request Form.

KPT-300LMC	License Management Client	NC
L-5000	KPT-300LMC License Key	NC

SOFTWARE LICENSE OPTIONS	

TO PLACE AN ORDER FOR SOFTWARE (FPU):
1. **Complete the attached KPG-D1NK Software License Key Request Form.**
2. **Submit along with your PO to the Land Mobile Order Desk via:**
   a) **E-Mail: lmrorderdesk@us.jvckenwood.com**
   b) **Fax: (310) 761-8246**
3. **License Keys will be E-mailed to the address provided on the order form. A hard copy will follow by mail for your records.**

 * **A unique license key is required for each PC with KPG-D1NK installed. A single license key will not authorize multiple PCs.**

KPG-D1NK	License Key for KPG-D1NK Programming Software for NX-5000 Portable/Mobile (Windows® Vista/7/8/8.1) *Note: Requires KPT-300LMC for authentication*	$ 155.00

P25 Trunked Programming Capability (licensed by either 1 or 2 below):
1. KPG-D1NK with System Key File (*.SKF)- See L-5005
• For NX-5000 series radios.
• 3-digit HEX System ID (HSID) and verifiable written authorization required from trunked system operator (SYSOP).
• Purchase KPG-D1NK & L-5005 System Key File
• Kenwood ships an encrypted *.SKF file on CD ROM
• The *.SKF securely embeds/encrypts the 16-digit Network Level License ID & the HSID.
2. KPG-D1NK with Advanced System Keys (ASK's)
• For NX-5000 series radios.
• SYSOPs: Refer to KWD-ASK-MK Master Key
• Dealers/contractors: Refer to KWD-ASK-AK Access Key
• KPG-D1NK supports up to 16 KWD-ASK-AK Access Keys (16 trunked networks).

KAS-12K	License Key for KAS-12 Battery Reader Software for KNBL1/2/3/ & KSC-Y32 (Windows® Vista/7/8/8.1) *Note: Requires KPT-300LMC for authentication*	$ 85.00

Software License Key Discount Structure	
1 License Key	---
2~4 License Keys	**10% OFF**
5 ~ 14 License Keys	**35% OFF**
15~24 License Keys	**40% OFF**
25+ License Keys	**45% OFF**

RADIO FEATURE LICENSE OPTIONS	

PCs registered under the same KPT-300LMC Account Registration Key (License Key) will be able to authentic Radio Features that can then be viewed / shared / managed by all registered users for the account.

*_TO PLACE AN ORDER FOR RADIO FEATURE LICENSES:_
1. Complete the attached Radio Feature Request Form.
2. Submit the completed form along with your PO to the Land Mobile Order Desk via:
   a) E-Mail: lmrorderdesk@us.jvckenwood.com
   b) Fax: (310) 761-8246
3. License Keys will be E-mailed to the address provided on the request form. A hard copy will follow by mail for your records.

Note: Radio Feature License Keys are not transferable from a radio to a radio. Once a Radio Feature License has been authenticated in one radio, it can not be transferred to another radio.

GENERAL RADIO FEATURES		LIST
KWD-5000CH	License Key for 4000 CH/GID Expansion	$ 420.00
KWD-5001FP	License Key for Front Panel Programming	$ 300.00
KWD-5002SD	License Key for microSD Memory Card Slot Activation	$ 105.00
KWD-5003BT	License Key for Bluetooth Serial Port Profile [Available 2015 2Q]	$ 35.00

P25 RADIO FEATURES		LIST
KWD-5100CV	License Key for P25 Conventional	$ 575.00
KWD-5101TR	License Key for P25 Phase 1 Trunking (requires KWD-5100CV)	$ 520.00
KWD-5102TR	License Key for P25 Phase 2 Trunking (requires KWD-5100CV & KWD-5101TR)	$ 400.00
KWD-5103RK	License Key for P25 OTAR (requires KWD-5106DT for a Trunking Operation)	$ 700.00
KWD-5105VT	License Key for P25 Conventional Voting Scan [Available 2015 2Q]	$ 120.00
KWD-5106DT	License Key for P25 Packet Data (requires for Trunked OTAR/GPS/Text)	$ 180.00

ANTENNAS		LIST
KRA-26M	VHF helical antenna 146-162 MHz	$ 14.00
KRA-26M2	VHF helical antenna 162-174 MHz	$ 14.00
KRA-26M3	VHF helical antenna 136-150 MHz	$ 14.00
KRA-27M	UHF whip antenna 440-490 MHz	$ 14.00
KRA-27M2	UHF whip antenna 470-520 MHz	$ 14.00
KRA-27M3	UHF whip antenna 400-450 MHz	$ 14.00
KRA-22M	VHF low-profile helical antenna 148-162 MHz	$ 13.70
KRA-22M2	VHF low-profile helical antenna 162-174 MHz	$ 13.70
KRA-22M3	VHF Low-profile helical antenna 136-150 MHz	$ 13.70
KRA-23M	UHF low-profile helical antenna 450-490 MHz	$ 13.70
KRA-23M2	UHF low-profile helical antenna 470-512 MHz	$ 13.70
KRA-23M3	UHF low-profile helical antenna 403-430 MHz	$ 13.70
KRA-25	High gain VHF helically loaded whip antenna 148-162 MHz	$ 34.25

BATTERIES AND CHARGERS		LIST
KNB-L1M	Li-ion 2000mAh (Compact Slim)	$ 115.00
KNB-L2M	Li-ion 2600mAh (Standard)	$ 135.00
KNB-L3M	Li-ion 3400mAh (High Capacity)	$ 175.00
KSC-Y32K	Rapid rate single unit charger (Long-Life Charge Mode capable with KAS-12 Software) **Note:** NiMH/Li-ion battery only	$ 115.00
KAS-12K	License Key for KAS-12 **(Authentication required)** Battery Reader Software for KNB-L1M/L2M/L3M & KSC-Y32 (Windows® Vista/7/8/8.1)	$ 85.00
KSC-32	Rapid rate single unit charger	$ 70.00
KSC-326K	Rapid rate 6-unit charger	$ 630.00
KMB-30M	Wall Mount Bracket for KSC-326K/256K	$ 33.75
KVC-15	Rapid rate DC vehicular charger adapter for the KSC-32 (chargers not included; includes KSC-mobile bracket & cigarette lighter cable DC adapter)	$ 119.00

CARRYING ACCESSORIES		LIST
KBH-11	Spring action belt clip (2.5")	$ 14.70
KBH-8DS	Leather swivel belt loop with portable D-Ring attachment	$ 26.30
KLH-6SW	Leather swivel belt loop / detachable swivel D-Ring back	$ 22.00
KLH-137ST	Firemen's Heavy-Duty Leather Shoulder Strap for a Heavy-Duty Leather Case	$ 36.75
KLH-200K3	Heavy duty leather carrying case for NX-5000-series (for both K2 & K3 models)	$ 44.25
KLH-201K3	Nylon carrying case for NX-5000-series (for both K2 & K3 models)	$ 26.30

MICROPHONES & AUDIO ACCESSORIES		LIST
KMC-54WDM	MIL-SPEC, IP67 (Immersion) Speaker Mic **Compatible with ANR Feature** **Note:** only compatible with a NX-5000 series portable	$ -
KMC-42WDM	MIL-SPEC, IP67 (Immersion) Noise-canceling Speaker Mic	$ 114.00
KMC-49	MIL-SPEC, Speaker Mic. with Antenna Connector **Note**: 5/16" Coax cable hex wrench included (antenna is not included).	$ 250.00
KEP-1	3.5mm earphone kit for KMC-41/42W/54W Speaker Mics	$ 52.50
KEP-2	2.5mm earphone kit for KMC-49 Speaker Mic	$ 52.50
KEP-3	30" Earphone kit w/ 2.5mm plug for KCT-30	$ 51.50
KEP-4	48" Earphone kit w/ 2.5mm plug for KCT-30	$ 54.75
KCT-30	2.5mm Audio Accessory Adapter for KEP-3/4	$ 64.00
KCT-51	Hirose 6-pin Adapter (adapts KVL/aftermarket audio acc. to portable connector)	$ 215.00
KHS-11BL	2-wire palm mic w/earphone, universal connector (Black)	$ 156.50
KHS-12BL	3-wire mini lapel mic w/earphone, universal connector (Black)	$ 184.00
KHS-14	Lt. Wt. Single muff headset w/boom mic & In-line PTT	$ 126.00
KHS-15-BH	Hvy-duty noise reduction behind-the-headset w/noise cancelling boom mic & PTT	$ 420.00
KHS-15-OH	Hvy-duty noise reduction over-the-headset w/noise cancelling boom mic & PTT	$ 368.00

ENCRYPTION MODULES		LIST
KWD-AE30K	AES FIPS140-2 & DES Encryption Module (Multi-Key) Order a Labor Code **L-5003** if installation is required. KWD-AE30K requires: a Motorola KVL3000 Plus/4000 key loader device. KWD-AE30K is an U.S. DOC/BIS Export Controlled Item (ECCN 5A002A.1)	$ 850.00
KWD-AE31K	AES & DES Encryption Module (Multi-Key) Order a Labor Code **L-5004** if installation is required. **Note**: Requires KPG-AE1/DE1 software key loader or Motorola KVL3000 Plus/4000 key loader device. KWD-AE31K is an U.S. DOC/BIS Export Controlled Item (ECCN 5A002A.1)	$ 550.00
KPG-AE1K	AES/DES Encryption Software Key Loader for KWD-AE31K **Authentication by KPT-300LMC is required** **Note**: KPG-AE1 is a U.S. DOC/BIS Export Controlled Item (ECCN 5D002A)	$ 525.00
KPG-DE1K	DES Encryption Software Key Loader for KWD-AE31K **Authentication by KPT-300LMC is required** **Note**: KPG-DE1 is a U.S. DOC/BIS Export Controlled Item (ECCN 5D992A.1)	$ 368.00

SERVICE RELATED ACCESSORIES		LIST
KPG-36UM	USB Programming interface cable	$ 158.50
KPG-93	KVL-3000 Plus/4000 Interface Cable for P25 Portables	$ 262.50
KPG-93AUT	KVL-4000 Radio Authentication Cable **[Available in 2015 2Q]**	*TBD*
KWD-ASK-AK	Access Key for KPG-D1NK P25 trunked programming **Notes:** • For NX-5000 series only • Must be activated by a SYSOP with KWD-ASK-MK Master Key • Must have KPG-D1NK • Battery Life: 3 years (non-serviceable; key must be replaced)	$ 208.00
KWD-ASK-MK	Master Key for activating KWD-ASK-AK Access Keys - Restricted Purchase Requirements - **Notes:** • For NX-5000 series only. • Sold to SYSOP or SYSOP authorized entities only • Must have KPG-D1NK • SYSOP must provide 3-digit HEX HSID & the 16-digit Network Level License ID to Kenwood. • Purchase KWD-ASK-AK Access Keys if needed. • Battery Life: 3 years (non-serviceable; key must be replaced)	$ 500.00

INSTALLATION / TUNING CHARGES		LIST
L-5002	NX-5200/5300/5400 Programming (with basic TX/RX check)	$ 37.50
L-5003	Install KWD-AE30K in NX-5000 series Portable (Must purchase module separately)	$ 75.00
L-5004	Install KWD-AE31K in NX-5000 series Portable (Must purchase module separately)	$ 75.00
L-5005	KPG-D1NK System Key File **Note**: Enables P25 Trunked system programming privileges in a KPG-D1NK. **- Restricted Purchase Requirements -** • 3-Digit HEX System ID (HSID) from SYSOP required • Must Purchase KPG-D1NK with L-5005 • Kenwood ships an encrypted *.SKF file on CD ROM • Non-SYSOP entities ordering L-5005 must provide verifiable written authorization from SYSOP to receive an *.SKF file. • The 16-digit Network Level License ID & 3-digit HEX HSID are securely encrypted & embedded in the *.SKF file.	$ 132.00

-- IMPORTANT NOTES regarding ENCRYPTION MODULES--

Encryption modules, key loaders and radios containing encryption are export controlled by the U.S. Department of Commerce Bureau of Industry & Security EAR regulations and may either require an Export License, are eligible for a License Exception (ENC) or are exportable with No License Required (NLR) depending on the country, the consignee and the intended use. High level encryption is a special commodity that may require an export license to most countries. See www.bis.gov for more information regarding export regulations. DO NOT SHIP encryption items outside the U.S. without proper DOC/BIS Export Licenses and/or compliances.

Kenwood may request the following information to be submitted at time of order (this information must meet Kenwood internal approvals prior to shipment even if being returned to Kenwood later:
a) Initial Destination: Initial delivery point if different from Ultimate Destination
(customer distribution center, headquarters, dealership, manufacturer's representative)
* Business/Agency Name:
* Address:
* Contact Person Name:
* Contact Phone:
b) Ultimate Destination: Final delivery point(s); deployment/distribution
* Business/Agency Name:
* Address:
* Contact Person Name:
* Contact Phone:
c) Intended Use of Radios: Law enforcement, security, operations, etc.

KWD-AE30 AES FIPS140-2 SCM , NIST Validation & Customer Shipping
A secure delivery method direct to the end user customer is required by the NIST AES FIPS 140-2 validation rules. For U.S. Federal Government entities the SCM must ship from Kenwood USA Corporation directly to the end user customer by a trusted carrier (FEDEX, UPS or a designated Kenwood USA Corporation employee); shipping/handling by a dealer or other entity is not acceptable. This may or may not be required by local/state government agencies or business/industrial users. Please check with the end use customer about their AES encryption handling requirements before ordering. Kenwood will not be responsible for shipments of KWD-AE30K modules to erroneous destinations specified on an order.

NEXEDGE
P25

NX-5400
700/800MHz Digital & FM Analog Portable Radio

STANDARD

■ GENERAL FEATURES

- 3 W (700/800 MHz) Models
- 1024 CH-GID / 128 Zones
- Standard Key Models (w/o numeric keypad)
- Full Key Models (w/ numeric keypad)
- Full Color 1.74" (240 x 180 pixels) Transflective TFT Display
- Multi-line Text Display
- Function/Status Icons
- Multi-Language Display**
- Date & 12/24 Hour Time Clock
- Transmit/Busy/Call Alert/Warn LED
- On/Off Volume Knob
- 16-Position Mechanical Selector (w/ a stopper)
- 4-way Directional-pad (D-pad)
- 2 Position Lever Switch
- Emergency/AUX Key
- 3 Side PF Keys
- 1W Speaker Audio
- Emergency Call Features
- Built-in GPS Receiver / Antenna
- Built-in Bluetooth® Module for hands-free operation
- Built-in Motion Sensor
- Built-in 56-bit DES Encryption **
- Active Noise Reduction (ANR)
- KPG-D1N Windows® FPU
- Flash Firmware Upgrading
- MIL-STD-810 C/D/E/F/G
- IP67/68 Immersion

■ ANALOG MODE

- NPSPAC Channels
- Conventional Zones
- LTR® Zones **
- FleetSync®/II**: PTT ID ANI, Caller ID Display, Selective/Group Call, Emergency Status, Text Messages
- MDC-1200**: PTT ID ANI, Caller ID Display, Emergency, Radio Check & Inhibit
- QT / DQT (Conventional Zones Only)
- Voice Inversion Scrambler

**** Future Availability**

[Available in 2Q 2015]

■ DIGITAL – NXDN® MODE**

- NXDN® Conventional
- NXDN® TYPE-C Trunking (only in 800MHz)
- AMBE+2™ VOCODER
- 6.25 & 12.5 kHz Channels
- Over-the-Air Alias
- Over-the-Air Programming (require KPG-180AP OTAP Manager Software)
- Paging Call
- Emergency Call
- All Group Call
- Status Messaging
- Remote Stun/Kill/Check
- Short & Long Data Messages
- GPS Location

<Standard Key Model >   <Full Key Model >

All NX-5400 series portables include:
- Belt Clip (KBH-11)
- Universal Connector Cap
- User Guide
- Premium Warranty: 3 Years*

* All Accessories / options: 1 Year

Purchase Battery, Charger, Antenna separately

* **Note:** To maintain immersion specs (IP67/68), all warranty service must be done by one of the three National Kenwood Authorized Service Centers. IP67/68 Certification is valid under the 3 year premium warranty. No re-certification is available.

Because of spurious signal (birdie), the following frequencies (and ±10kHz ranges) are not allowed;
- 864.000

OPTIONAL

■ GENERAL FEATURES

- 4000 CH-GID / 128 Zones (KWD-5000CH License Key Activation required)
- Front Panel Programming (KWD-5001FP License Key Activation required)
- microSD/microSDHC Memory Card Slot (KWD-5002SD License Key Activation required)
- Built-in Bluetooth® Module for Data (KWD-5003BT** License Key Activation required)
- 256-bit AES Encryption (KWD-AE30K/31K Encryption Module required)
- Battery Management Solution (KSC-Y32K Charger & KAS-12K Software License Key required)
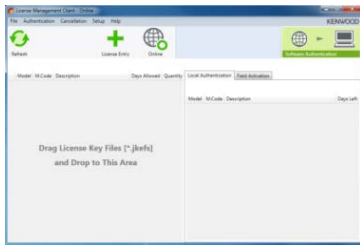
■ DIGITAL – P25 MODE

- Conventional Features (KWD-5100CV License Key Activation required)
- Phase 1 Trunking Features (KWD-5100CV & 5101TR License Keys Activation required)
- Phase 2 Trunking Features (KWD-5100CV & 5101TR & 5102TR License Keys Activation required)
- Conventional OTAR (KWD-5103RK License Key Activation required)
- Trunking OTAR (KWD-5103RK & 5106DT License Keys Activation required)
- Conventional Voting Scan (KWD-5105VT** License Key Activation required)
- Packet Data required for Trunked OTAR/GPS/Text (KWD-5106DT License Keys Activation required)

**** Future Availability**

RADIO		LIST
NX-5400K2	700 / 800 MHz, 3.0 Watts Analog Standard Key Model	$ 825.00
NX-5400K3	700 / 800 MHz, 3.0 Watts Analog Full Key Model	$ 875.00

LICENSING SYSTEM   LIST

Note: KPT-300LMC is compatible with Windows Vista/7/8/8.1 Only. Windows XP is not supported.

KPT-300LMC
License Management Client

KPT-300LMC is a required software package that is used to authenticate **software** (FPU) and **radio feature license** keys for the NX-5000 Series radios.

KPT-300LMC is available as a free download from Kenwood Tools and is also supplied with applicable software, such as KPG-D1NK, KAS-12, and KPG-AE1/DE1.

NOTE: A license key is required for the KPT-300LMC to authenticate the software prior to use. To receive a license key, complete the enclosed "**Account Request Form**" and return to the Land Mobile Order Desk.

License Keys will be E-Mailed to the address provided on the Account Request Form. A hard copy will follow by mail for your records.

KPT-300LMC	License Management Client	NC
L-5000	KPT-300LMC License Key	NC

SOFTWARE LICENSE OPTIONS

TO PLACE AN ORDER FOR SOFTWARE (FPU):
1. **Complete the attached KPG-D1NK Software License Key Request Form.**
2. **Submit along with your PO to the Land Mobile Order Desk via:**
   a) **E-Mail: lmrorderdesk@us.jvckenwood.com**
   b) **Fax: (310) 761-8246**
3. **License Keys will be E-mailed to the address provided on the order form. A hard copy will follow by mail for your records.**

* A unique license key is required for each PC with KPG-D1NK installed. A single license key will not authorize multiple PCs.

KPG-D1NK	License Key for KPG-D1NK Programming Software for NX-5000 Portable/Mobile (Windows® Vista/7/8/8.1) *Note: Requires KPT-300LMC for authentication*	$ 155.00

P25 Trunked Programming Capability (licensed by either 1 or 2 below):
1. KPG-D1NK with System Key File (*.SKF)- See L-5005
• For NX-5000 series radios.
• 3-digit HEX System ID (HSID) and verifiable written authorization required from trunked system operator (SYSOP).
• Purchase KPG-D1NK & L-5005 System Key File
• Kenwood ships an encrypted *.SKF file on CD ROM
• The *.SKF securely embeds/encrypts the 16-digit Network Level License ID & the HSID.
2. KPG-D1NK with Advanced System Keys (ASK's)
• For NX-5000 series radios.
• SYSOPs: Refer to KWD-ASK-MK Master Key
• Dealers/contractors: Refer to KWD-ASK-AK Access Key
• KPG-D1NK supports up to 16 KWD-ASK-AK Access Keys (16 trunked networks).

KAS-12K	License Key for KAS-12 Battery Reader Software for KNBL1/2/3/ & KSC-Y32 (Windows® Vista/7/8/8.1) *Note: Requires KPT-300LMC for authentication*	$ 85.00

Software License Key Discount Structure

1 License Key	---
2~4 License Keys	**10% OFF**
5 ~ 14 License Keys	**35% OFF**
15~24 License Keys	**40% OFF**
25+ License Keys	**45% OFF**

RADIO FEATURE LICENSE OPTIONS (ACCOUNT REGISTRATION)

PCs registered under the same KPT-300LMC Account Registration Key (License Key) will be able to authentic Radio Features that can then be viewed / shared / managed by all registered users for the account.

__ TO PLACE AN ORDER FOR RADIO FEATURE LICENSES:__*
1. *Complete the attached Radio Feature Request Form.*
2. *Submit the completed form along with your PO to the Land Mobile Order Desk via:*
   a) *E-Mail: lmrorderdesk@us.jvckenwood.com*
   b) *Fax: (310) 761-8246*
3. *License Keys will be E-mailed to the address provided on the request form. A hard copy will follow by mail for your records.*

Note: Radio Feature License Keys are not transferable from a radio to a radio. Once a Radio Feature License has been authenticated in one radio, it can not be transferred to another radio.

GENERAL RADIO FEATURES		LIST
KWD-5000CH	License Key for 4000 CH/GID Expansion	$ 420.00
KWD-5001FP	License Key for Front Panel Programming	$ 300.00
KWD-5002SD	License Key for microSD Memory Card Slot Activation	$ 105.00
KWD-5003BT	License Key for Bluetooth Serial Port Profile **[Available 2015 2Q]**	$ 35.00

P25 RADIO FEATURES		LIST
KWD-5100CV	License Key for P25 Conventional	$ 575.00
KWD-5101TR	License Key for P25 Phase 1 Trunking (requires KWD-5100CV)	$ 520.00
KWD-5102TR	License Key for P25 Phase 2 Trunking (requires KWD-5100CV & KWD-5101TR)	$ 400.00
KWD-5103RK	License Key for P25 OTAR (requires KWD-5106DT for a Trunking Operation)	$ 700.00
KWD-5105VT	License Key for P25 Conventional Voting Scan **[Available 2015 2Q]**	$ 120.00
KWD-5106DT	License Key for P25 Packet Data (requires for Trunked OTAR/GPS/Text)	$ 180.00

ANTENNAS		LIST
KRA-32K	700/800 MHz Whip Antenna	$ 35.00
KRA-36	700/800 MHz Stubby Antenna	$ 25.00

BATTERIES AND CHARGERS		LIST
KNB-L1M	Li-ion 2000mAh (Compact Slim)	$ 115.00
KNB-L2M	Li-ion 2600mAh (Standard)	$ 135.00
KNB-L3M	Li-ion 3400mAh (High Capacity)	$ 175.00
KSC-Y32K	Rapid rate single unit charger (Long-Life Charge Mode capable with KAS-12 Software) **Note:** NiMH/Li-ion battery only	$ 115.00
KAS-12K	License Key for KAS-12 **(Authentication required)** Battery Reader Software for KNBL1/2/3/ & KSC-Y32 (Windows® Vista/7/8/8.1)	$ 85.00
KSC-32	Rapid rate single unit charger	$ 70.00
KSC-326K	Rapid rate 6-unit charger	$ 630.00
KMB-30M	Wall Mount Bracket for KSC-326K/256K	$ 33.75
KVC-15	Rapid rate DC vehicular charger adapter for the KSC-32 (chargers not included; includes KSC-mobile bracket & cigarette lighter cable DC adapter)	$ 119.00

CARRYING ACCESSORIES		LIST
KBH-11	Spring action belt clip (2.5")	$ 14.70
KBH-8DS	Leather swivel belt loop with portable D-Ring attachment	$ 26.30
KLH-6SW	Leather swivel belt loop / detachable swivel D-Ring back	$ 22.00
KLH-137ST	Firemen's Heavy-Duty Leather Shoulder Strap for a Heavy-Duty Leather Case	$ 36.75
KLH-200K3	Heavy duty leather carrying case for NX-5000-series (for both keypad models)	$ 44.25
KLH-201K3	Nylon carrying case for NX-5000-series (for both keypad models)	$ 26.30

MICROPHONES & AUDIO ACCESSORIES		LIST
KMC-54WDM	MIL-SPEC, IP67 (Immersion) Speaker Mic **Compatible with ANR Feature** **Note:** only compatible with a NX-5000 series portable	$ -
KMC-42WDM	MIL-SPEC, IP67 (Immersion) Noise-canceling Speaker Mic	$ 114.00
KMC-49	MIL-SPEC, Speaker Mic. with Antenna Connector **Note**: 5/16" Coax cable hex wrench included (antenna is not included).	$ 250.00
KEP-1	3.5mm earphone kit for KMC-41/42W/54W Speaker Mics	$ 52.50
KEP-2	2.5mm earphone kit for KMC-49 Speaker Mic	$ 52.50
KEP-3	30" Earphone kit w/ 2.5mm plug for KCT-30	$ 51.50
KEP-4	48" Earphone kit w/ 2.5mm plug for KCT-30	$ 54.75
KCT-30	2.5mm Audio Accessory Adapter for KEP-3/4	$ 64.00
KCT-51	Hirose 6-pin Adapter (adapts KVL/aftermarket audio acc. to portable connector)	$ 215.00
KHS-11BL	2-wire palm mic w/earphone, universal connector (Black)	$ 156.50
KHS-12BL	3-wire mini lapel mic w/earphone, universal connector (Black)	$ 184.00
KHS-14	Lt. Wt. Single muff headset w/boom mic & In-line PTT	$ 126.00
KHS-15-BH	Hvy-duty noise reduction behind-the-headset w/noise cancelling boom mic & PTT	$ 420.00
KHS-15-OH	Hvy-duty noise reduction over-the-headset w/noise cancelling boom mic & PTT	$ 368.00
ENCRYPTION MODULES		**LIST**
KWD-AE30K	AES FIPS140-2 & DES Encryption Module (Multi-Key) Order a Labor Code **L-5003** if installation is required. KWD-AE30K requires: a Motorola KVL3000 Plus/4000 key loader device. KWD-AE30K is an U.S. DOC/BIS Export Controlled Item (ECCN 5A002A.1)	$ 850.00
KWD-AE31K	AES & DES Encryption Module (Multi-Key) Order a Labor Code **L-5004** if installation is required. **Note**: Requires KPG-AE1/DE1 software key loader or Motorola KVL3000 Plus/4000 key loader device. KWD-AE31K is an U.S. DOC/BIS Export Controlled Item (ECCN 5A002A.1)	$ 550.00
KPG-AE1K	AES/DES Encryption Software Key Loader for KWD-AE31K **Authentication by KPT-300LMC is required** **Note**: KPG-AE1 is a U.S. DOC/BIS Export Controlled Item (ECCN 5D002A)	$ 525.00
KPG-DE1K	DES Encryption Software Key Loader for KWD-AE31K **Authentication by KPT-300LMC is required** **Note**: KPG-DE1 is a U.S. DOC/BIS Export Controlled Item (ECCN 5D992A.1)	$ 368.00

SERVICE RELATED ACCESSORIES		LIST
KPG-36UM	USB Programming interface cable	$ 158.50
KPG-93	KVL-3000 Plus/4000 Interface Cable for P25 Portables	$ 262.50
KPG-93AUT	KVL-4000 Radio Authentication Cable **[Available in 2015 2Q]**	*TBD*
KWD-ASK-AK	Access Key for KPG-D1NK P25 trunked programming **Notes:** • For NX-5000 series only • Must be activated by a SYSOP with KWD-ASK-MK Master Key • Must have KPG-D1NK • Battery Life: 3 years (non-serviceable; key must be replaced)	$ 208.00
KWD-ASK-MK	Master Key for activating KWD-ASK-AK Access Keys **- Restricted Purchase Requirements -** **Notes:** • For NX-5000 series only. • Sold to SYSOP or SYSOP authorized entities only • Must have KPG-D1NK • SYSOP must provide 3-digit HEX HSID & the 16-digit Network Level License ID to Kenwood. • Purchase KWD-ASK-AK Access Keys if needed. • Battery Life: 3 years (non-serviceable; key must be replaced)	$ 500.00

INSTALLATION / TUNING CHARGES		LIST
L-5002	NX-5200/5300/5400 Programming (with basic TX/RX check)	$ 37.50
L-5003	Install KWD-AE30K in NX-5000 series Portable (Must purchase module separately)	$ 75.00
L-5004	Install KWD-AE31K in NX-5000 series Portable (Must purchase module separately)	$ 75.00
L-5005	KPG-D1NK System Key File **Note**: Enables P25 Trunked system programming privileges in a KPG-D1NK. **- Restricted Purchase Requirements -** • 3-Digit HEX System ID (HSID) from SYSOP required • Must Purchase KPG-D1NK with L-5005 • Kenwood ships an encrypted *.SKF file on CD ROM • Non-SYSOP entities ordering L-5005 must provide verifiable written authorization from SYSOP to receive an *.SKF file. • The 16-digit Network Level License ID & 3-digit HEX HSID are securely encrypted & embedded in the *.SKF file.	$ 132.00

-- IMPORTANT NOTES regarding ENCRYPTION MODULES--

Encryption modules, key loaders and radios containing encryption are export controlled by the U.S. Department of Commerce Bureau of Industry & Security EAR regulations and may either require an Export License, are eligible for a License Exception (ENC) or are exportable with No License Required (NLR) depending on the country, the consignee and the intended use. High level encryption is a special commodity that may require an export license to most countries. See www.bis.gov for more information regarding export regulations. DO NOT SHIP encryption items outside the U.S. without proper DOC/BIS Export Licenses and/or compliances.

Kenwood may request the following information to be submitted at time of order (this information must meet Kenwood internal approvals prior to shipment even if being returned to Kenwood later:
a) Initial Destination: Initial delivery point if different from Ultimate Destination
(customer distribution center, headquarters, dealership, manufacturer's representative)
* Business/Agency Name:
* Address:
* Contact Person Name:
* Contact Phone:
b) Ultimate Destination: Final delivery point(s); deployment/distribution
* Business/Agency Name:
* Address:
* Contact Person Name:
* Contact Phone:
c) Intended Use of Radios: Law enforcement, security, operations, etc.

KWD-AE30 AES FIPS140-2 SCM , NIST Validation & Customer Shipping
A secure delivery method direct to the end user customer is required by the NIST AES FIPS 140-2 validation rules. For U.S. Federal Government entities the SCM must ship from Kenwood USA Corporation directly to the end user customer by a trusted carrier (FEDEX, UPS or a designated Kenwood USA Corporation employee); shipping/handling by a dealer or other entity is not acceptable. This may or may not be required by local/state government agencies or business/industrial users. Please check with the end use customer about their AES encryption handling requirements before ordering. Kenwood will not be responsible for shipments of KWD-AE30K modules to erroneous destinations specified on an order.

NEXEDGE P25

NX-5700/5800

VHF/UHF Digital & FM Analog Mobile Radios

STANDARD

All NX-5000 series Mobiles include:
• Standard Microphone (KMC-35)
• Mounting Bracket (KMB-33M)
• DC Cable (KCT-23M)
• Blade Fuse
• User Guide
• Premium Warranty: 3 Years*

* All Accessories / options: 1 Year

■ GENERAL FEATURES

• 50 W (136-174 MHz) Models
• 45 W (380-470, 450-520 MHz) Models
• 1024 CH-GID / 128 Zones
• Full Color 2.55" (154 x 422 pixels) TFT Display
• Multi-line Text Display
• Function/Status Icons
• Multi-Language Display**
• Date & 12/24 Hour Time Clock
• Transmit/Busy/Call Alert/Warn LED
• Emergency/AUX Key
• 4W Speaker Audio
• DB-25 Accessory Connector
• Emergency Call Features
• Built-in GPS Receiver
• Built-in Bluetooth® Module
  for hands-free operation
• Built-in 56-bit DES Encryption **
• Active Noise Reduction (ANR)
• KPG-D1N Windows® FPU
• Flash Firmware Upgrading
• MIL-STD-810 C/D/E/F/G
• IP54/55

■ DIGITAL – NXDN® MODE

• NXDN® Conventional / TYPE-C Trunking
• AMBE+2™ VOCODER
• 6.25 & 12.5 kHz Channels
• Over-the-Air Alias
• Over-the-Air Programming
  (require KPG-180AP OTAP Manager Software **)
• Paging Call **
• Emergency Call
• All Group Call
• Status Messaging
• Remote Stun/Kill/Check
• Short & Long Data Messages
• GPS Location
• NXDN® Scrambler

■ ANALOG MODE

• Conventional Zones
• LTR® Zones **
• FleetSync®/II**: PTT ID ANI, Caller ID Display, Selective/Group Call, Emergency Status, Text Messages
• MDC-1200**: PTT ID ANI, Caller ID Display, Emergency, Radio Check & Inhibit
• QT / DQT
• Two-Tone** (Conventional Zones Only)
• DTMF**
• Built-in Voice Inversion Scrambler

OPTIONAL

■ GENERAL FEATURES

• 4000 CH-GID / 128 Zones (KWD-5000CH License Key Activation required)
• Front Panel Programming (KWD-5001FP License Key Activation required)
• microSD/microSDHC Memory Card Slot (KWD-5002SD License Key Activation required)
• Built-in Bluetooth® Module for Data (KWD-5003BT** License Key Activation required)
• 256-bit AES Encryption (KWD-AE30K/31K Encryption Module required)

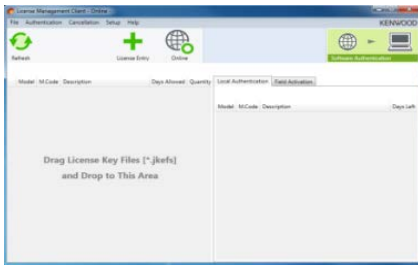**[Available in 2Q 2015]**

■ MOUNTING CONFIGURATIONS / REMOTE PANEL **

• KCH-20R Featured Control Head
• Single Remote Control Head (KRK Kit & KCT-71 Cable required)
• Dual Remote Control Heads (KCH-19/20R & KRK Kit &

■ DIGITAL – P25 MODE

• Conventional Features (KWD-5100CV License Key Activation required)
• Phase 1 Trunking Features (KWD-5100CV & 5101TR License Keys Activation required)
• Phase 2 Trunking Features (KWD-5100CV & 5101TR & 5102TR License Keys Activation   required)
• Conventional OTAR (KWD-5103RK License Key Activation required)
• Trunking OTAR (KWD-5103RK & 5106DT License Keys Activation required)
• Conventional Voting Scan (KWD-5105VT** License Key Activation required)
• Packet Data required for Trunked OTAR/GPS/Text (KWD-5106DT License Keys Activation required)

RADIO			LIST
NX-5700K	VHF (136-174MHz), 50 Watts	NXDN Conventional / TYPE-C Trunking	$ 980.00
NX-5800K	UHF (450-520MHz), 45 Watts	NXDN Conventional / TYPE-C Trunking	$ 980.00
NX-5800K2	UHF (380-470MHz), 45 Watts	NXDN Conventional / TYPE-C Trunking	$ 980.00

LICENSING SYSTEM	LIST

Note: KPT-300LMC is compatible with Windows Vista/7/8/8.1 Only. Windows XP is not supported.

KPT-300LMC
License Management Client

KPT-300LMC is a required software package that is used to authenticate **software** (FPU) and **radio feature license** keys for the NX-5000 Series radios.

KPT-300LMC is available as a free download from Kenwood Tools and is also supplied with applicable software, such as KPG-D1NK, KAS-12, and KPG-AE1/DE1.

NOTE: A license key is required for the KPT-300LMC to authenticate the software prior to use. To receive a license key, complete the enclosed "**Account Request Form**" and return to the Land Mobile Order Desk.

License Keys will be E-Mailed to the address provided on the Account Request Form. A hard copy will follow by mail for your records.

KPT-300LMC	License Management Client	NC
L-5000	KPT-300LMC License Key	NC

SOFTWARE LICENSE OPTIONS

TO PLACE AN ORDER FOR SOFTWARE (FPU):
1. **Complete the attached KPG-D1NK Software License Key Request Form.**
2. **Submit along with your PO to the Land Mobile Order Desk via:**
    a) **E-Mail: lmrorderdesk@us.jvckenwood.com**
    b) **Fax: (310) 761-8246**
3. **License Keys will be E-mailed to the address provided on the order form. A hard copy will follow by mail for your records.**

   * A unique license key is required for each PC with KPG-D1NK installed. A single license key will not authorize multiple PCs.

KPG-D1NK	License Key for KPG-D1NK Programming Software for NX-5000 Portable/Mobile (Windows® Vista/7/8/8.1)	$ 155.00

P25 Trunked Programming Capability (licensed by either 1 or 2 below):
1. KPG-D1NK with System Key File (*.SKF)- See L-5005
• For NX-5000 series radios.
• 3-digit HEX System ID (HSID) and verifiable written authorization required from trunked system operator (SYSOP).
• Purchase KPG-D1NK & L-5005 System Key File
• Kenwood ships an encrypted *.SKF file on CD ROM
• The *.SKF securely embeds/encrypts the 16-digit Network Level License ID & the HSID.
2. KPG-D1NK with Advanced System Keys (ASK's)
• For NX-5000 series radios.
• SYSOPs: Refer to KWD-ASK-MK Master Key
• Dealers/contractors: Refer to KWD-ASK-AK Access Key
• KPG-D1NK supports up to 16 KWD-ASK-AK Access Keys (16 trunked networks).

Software License Key Discount Structure		
	1 License Key	---
	2~4 License Keys	**10% OFF**
	5 ~ 14 License Keys	**35% OFF**
	15~24 License Keys	**40% OFF**
	25+ License Keys	**45% OFF**

RADIO FEATURE LICENSE OPTIONS

PCs registered under the same KPT-300LMC Account Registration Key (License Key) will be able to authentic Radio Features that can then be viewed / shared / managed by all registered users for the account.

__* TO PLACE AN ORDER FOR RADIO FEATURE LICENSES:__
1. *Complete the attached Radio Feature Request Form.*
2. *Submit the completed form along with your PO to the Land Mobile Order Desk via:*
   a) *E-Mail: lmrorderdesk@us.jvckenwood.com*
   b) *Fax: (310) 761-8246*
3. *License Keys will be E-mailed to the address provided on the request form. A hard copy will follow by mail for your records.*

Note: Radio Feature License Keys are not transferable from a radio to a radio. Once a Radio Feature License has been authenticated in one radio, it can not be transferred to another radio.

GENERAL RADIO FEATURES		LIST
KWD-5000CH	License Key for 4000 CH/GID Expansion	$ 420.00
KWD-5001FP	License Key for Front Panel Programming	$ 300.00
KWD-5002SD	License Key for microSD Memory Card Slot Activation	$ 105.00
KWD-5003BT	License Key for Bluetooth Serial Port Profile [Available 2015 2Q]	$ 35.00
KWD-5004MR	License Key for Multiple RF Decks Receiver [Available 2015 2Q]	*TBD*

P25 RADIO FEATURES		LIST
KWD-5100CV	License Key for P25 Conventional	$ 575.00
KWD-5101TR	License Key for P25 Phase 1 Trunking (requires KWD-5100CV)	$ 520.00
KWD-5102TR	License Key for P25 Phase 2 Trunking (requires KWD-5100CV & KWD-5101TR)	$ 400.00
KWD-5103RK	License Key for P25 OTAR (requires KWD-5106DT for a Trunking Operation)	$ 700.00
KWD-5105VT	License Key for P25 Conventional Voting Scan [Available 2015 2Q]	$ 120.00
KWD-5106DT	License Key for P25 Packet Data (requires for Trunked OTAR/GPS/Text)	$ 180.00

MOBILE INSTALLATION ACCESSORIES		LIST
KAP-2	Horn Alert/P.A. Relay Option	63.00
KCT-23M	DC Cable (35-50W Dash mount; pos/neg. 10 ft. leads)	31.50
KCT-23M3	DC Cable (35-50W Remote mount; pos.23 ft.; neg. 3.3. ft. leads)	34.75
KCT-46	Ignition sense cable (plugs directly into mobile chassis ignition sense line)	13.70
KLF-2	Line Filter (suppresses alternator whine, 25dB, 25A max).	42.00
KMB-10	Key lock adapter	26.30
KMB-33M	Standard Mounting Bracket (same as supplied)	14.00
KPS-15	DC Switching Power Supply (117/230 VAC; 23A max. continuous, 25A peak)	173.00
KRA-40GM	GPS Antenna	42.00

MICROPHONES AND SPEAKERS		LIST
KMC-35	MIL-SPEC Standard electret mobile microphone (8-pin mod. plug) - same as supplied	52.50
KMC-36	MIL-SPEC Standard electret mobile microphone with 12 keypad (8-pin mod. plug)	94.50
KMC-9C	Control Station Desktop Microphone (8-pin mod. plug) **Note:** NOT compatible in a TDMA operation	86.00
KES-3	External speaker (compact low profile; black case; 3.5 mm phono plug-in)	44.25
KES-5	External speaker, 40W max input **Note:** requires KAP-2 (PA/HA unit) installed	61.25

ENCRYPTION MODULES		LIST
KWD-AE30K	AES FIPS140-2 & DES Encryption Module (Multi-Key) Order a Labor Code **L-5007** if installation is required. KWD-AE30K requires: a Motorola KVL3000 Plus/4000 key loader device. KWD-AE30K is an U.S. DOC/BIS Export Controlled Item (ECCN 5A002A.1)	$ 850.00
KWD-AE31K	AES & DES Encryption Module (Multi-Key) Order a Labor Code **L-5008** if installation is required. **Note**: Requires KPG-AE1/DE1 software key loader or Motorola KVL3000 Plus/4000 key loader device. KWD-AE31K is an U.S. DOC/BIS Export Controlled Item (ECCN 5A002A.1)	$ 550.00
KPG-AE1K	AES/DES Encryption Software Key Loader for KWD-AE31K **Authentication by KPT-300LMC is required** **Note**: KPG-AE1 is a U.S. DOC/BIS Export Controlled Item (ECCN 5D002A)	$ 525.00
KPG-DE1K	DES Encryption Software Key Loader for KWD-AE31K **Authentication by KPT-300LMC is required** **Note**: KPG-DE1 is a U.S. DOC/BIS Export Controlled Item (ECCN 5D992A.1)	$ 368.00

SERVICE RELATED ACCESSORIES		LIST
KPG-46UM	USB Programming interface cable	$ 158.50
KPG-115	Key Loader Interface Cable for Motorola KVL-3000/3000 Plus	$ 262.50
KPG-115AUT	KVL-4000 Radio Authentication Cable **[Available in 2015 1Q]**	*TBD*
KWD-ASK-AK	Access Key for KPG-D1NK P25 trunked programming **Notes:** • For NX-5000 series only • Must be activated by a SYSOP with KWD-ASK-MK Master Key • Must have KPG-D1NK • Battery Life: 3 years (non-serviceable; key must be replaced)	$ 208.00
KWD-ASK-MK	Master Key for activating KWD-ASK-AK Access Keys **- Restricted Purchase Requirements -** **Notes:** • For NX-5000 series only. • Sold to SYSOP or SYSOP authorized entities only • Must have KPG-D1NK • SYSOP must provide 3-digit HEX HSID & the 16-digit Network Level License ID to Kenwood. • Purchase KWD-ASK-AK Access Keys if needed. • Battery Life: 3 years (non-serviceable; key must be replaced)	$ 500.00

INSTALLATION / TUNING CHARGES		LIST
L-5006	NX-5700/5800 Programming (with basic TX/RX check)	$ 37.50
L-5007	Install KWD-AE30K in NX-5000 series Mobile (Must purchase module separately)	$ 75.00
L-5008	Install KWD-AE31K in NX-5000 series Mobile (Must purchase module separately)	$ 75.00
L-5005	KPG-D1NK System Key File **Note**: Enables P25 Trunked system programming privileges in a KPG-D1NK. **- Restricted Purchase Requirements -** • 3-Digit HEX System ID (HSID) from SYSOP required • Must Purchase KPG-D1NK with L-5005 • Kenwood ships an encrypted *.SKF file on CD ROM • Non-SYSOP entities ordering L-5005 must provide verifiable written authorization from SYSOP to receive an *.SKF file. • The 16-digit Network Level License ID & 3-digit HEX HSID are securely encrypted & embedded in the *.SKF file.	$ 132.00
L-5015	Install KAP-2 (Default) HR1/Internal Sp./PA	$ 25.00
L-5016	Assemble NX-5000 Mobile for Single Remote Head Control	$ 42.00

-- IMPORTANT NOTES regarding ENCRYPTION MODULES--

Encryption modules, key loaders and radios containing encryption are export controlled by the U.S. Department of Commerce Bureau of Industry & Security EAR regulations and may either require an Export License, are eligible for a License Exception (ENC) or are exportable with No License Required (NLR) depending on the country, the consignee and the intended use. High level encryption is a special commodity that may require an export license to most countries. See www.bis.gov for more information regarding export regulations. DO NOT SHIP encryption items outside the U.S. without proper DOC/BIS Export Licenses and/or compliances.

Kenwood may request the following information to be submitted at time of order (this information must meet Kenwood internal approvals prior to shipment even if being returned to Kenwood later:
a) Initial Destination: Initial delivery point if different from Ultimate Destination
(customer distribution center, headquarters, dealership, manufacturer's representative)
* Business/Agency Name:
* Address:
* Contact Person Name:
* Contact Phone:
b) Ultimate Destination: Final delivery point(s); deployment/distribution
* Business/Agency Name:
* Address:
* Contact Person Name:
* Contact Phone:
c) Intended Use of Radios: Law enforcement, security, operations, etc.

KWD-AE30 AES FIPS140-2 SCM , NIST Validation & Customer Shipping
A secure delivery method direct to the end user customer is required by the NIST AES FIPS 140-2 validation rules. For U.S. Federal Government entities the SCM must ship from Kenwood USA Corporation directly to the end user customer by a trusted carrier (FEDEX, UPS or a designated Kenwood USA Corporation employee); shipping/handling by a dealer or other entity is not acceptable. This may or may not be required by local/state government agencies or business/industrial users. Please check with the end use customer about their AES encryption handling requirements before ordering. Kenwood will not be responsible for shipments of KWD-AE30K modules to erroneous destinations specified on an order.

KENWOOD

NX-200/300

NEXEDGE® VHF/UHF Digital & FM Analog Portable Radios

All NX series portables include:
• Belt Clip (KBH-11)
• Universal Connector Cap
• Instruction Manual
• Premium Warranty: 3 Years*

* All Accessories / options: 1 Year

Purchase Battery, Charger, Antenna separately

* Limited Availability for I.S. & Contract requirements only.

* Approved by CSA International Inc. for Classes I, II & III, Div. 1, Groups C, D, E, F, G and are also approved for non-Incendive use in Class I, Div. 2, Groups A, B, C, D hazardous locations. **Note**: Class I, Div 2 Group A & B Gases require use of a portable carrying case.

GENERAL FEATURES
• 5 W (136-174 MHz) Models
• 5 W (400-470, 450-520* MHz) Models
• 512 CH-GID / 128 Zones
• 64 CH-GID / 4 Zones (S Version)
• 12-Key Keypad Models
• 14 Character Alphanumeric Aliases
• Backlit Dot Matrix LCD
• Function/Status LCD Icons
• Multi-Language Display
• Date & 12/24 Hour Time Clock
• Transmit/Busy/Call Alert/Warn LED
• On/Off Volume Knob
• 16-Position Mechanical Selector
• 6 Front PF & Menu Keys
• 2 Side PF Keys
• 500 mW Speaker Audio
• Emergency Call Features
• KMC-47GPS Speaker Mic Option
• KMC-51/52 Digital Noise-Canceling Speaker Mic Option
• KPG-111D Windows® FPU
• Flash Firmware Upgrading
• MIL-STD-810 C/D/E/F/G
• IP54/55 Water & Dust Intrusion
• Immersion (IP67) Option
• PC Serial Interface
• SDM Manual Input1
• Transparent Data Mode
• Intrinsically Safe Option
• VGS-1 Voice Guide/ Voice & GPS Data Storage Option
• Color Housing Option

DIGITAL – GENERAL
• NXDN® Digital Air Interface
• AMBE+2™ VOCODER
• 6.25 & 12.5 kHz Channels
• Over-the-Air Alias
• Over-the-Air Programming
• Paging Call
• Emergency Call
• All Group Call
• Status Messaging
• Remote Stun/Kill/Check
• Short & Long Data Messages
• GPS Location with Voice
• NXDN® Scrambler Included
• DES Encryption Module Option
• AES & DES Encryption Module Option
• AES/DES Software Key Loader Option

DIGITAL – CONVENTIONAL MODE
• 64 Radio Access Numbers (RAN)
• Individual & Group Selective Call
• Mixed FM/Digital Operation
• Conventional IP Networks
• Site Roaming

DIGITAL – TRUNKING MODE
• Individual Private Call
• Group Call & Broadcast Call
• Telephone Interconnect
• Transmission Trunked Mode
• Message Trunked Mode
• Call Queuing with Priority
• Late Entry (UID & GID)
• 4 Priority Monitor ID's
• Remote Group Add
• Failsoft Mode

MULTI-SITE IP NETWORKS COMPATIBLE
• 60,000 GIDs / UIDs
• Wide Area Group Call
• Auto Roaming Registration
• Group Registration

MULTI-SYSTEM COMPATIBLE
• 8 Trunked Networks per radio (each in a zone)
• UID Lists for each network

SCAN
• Single Zone / Multi-Zone / List Scan
• Dual Priority Scan (Conventional)

ANALOG MODE – GENERAL
• 25 & 12.5 kHz Channels
• Conventional & LTR® Zones
• FleetSync®/II, MDC-1200, DTMF
• QT / DQT & Two-Tone (Conventional Zones Only)
• Voice Inversion Scrambler
• Analog Scrambler Board Capability

MPT ZONES (option)
• Single-Site Trunking
• Multi-Site Network Trunking
• 8 Network Capacity
• Network Roaming / Registration

FleetSync®/II (FM)
• PTT ID ANI / Caller ID
• Selective / Group Call
• Emergency Status / Text Messages

MDC-1200
• PTT ID ANI / Caller ID
• Emergency / Radio Check & Inhibit

RADIO		LIST
NX-200K	136-174MHz 5W, 14 characters Alphanumeric LCD, 6 Control Keys	684.00
NX-200K2	136-174MHz 5W, 14 characters Alphanumeric LCD, Full Keypad	734.00
NX-200SK	136-174MHz 5W, Non-Display	625.00
NX-300K	450-520MHz 5W, 14 characters Alphanumeric LCD, 6 Control Keys	684.00
NX-300K2	400-470MHz 5W, 14 characters Alphanumeric LCD, 6 Control Keys	684.00
NX-300K3	450-520MHz 5W, 14 characters Alphanumeric LCD, Full Keypad	734.00
NX-300K4	400-470MHz 5W, 14 characters Alphanumeric LCD, Full Keypad	734.00
NX-300SK2	400-470MHz 5W, Non-Display	625.00

RADIO - CONT'D		LIST
IP67 (Immersion) Package Models		
NX-200-WK	136-174MHz 5W, 14 characters Alphanumeric LCD, 6 Control Keys **[see note 1]**	867.00
NX-200-WK2	136-174MHz 5W, 14 characters Alphanumeric LCD, Full Keypad **[see note 1]**	917.00
NX-300-WK	450-520MHz 5W, 14 characters Alphanumeric LCD, 6 Control Keys **[see note 1]**	867.00
NX-300-WK2	400-470MHz 5W, 14 characters Alphanumeric LCD, 6 Control Keys **[see note 1]**	867.00
NX-300-WK3	450-520MHz 5W, 14 characters Alphanumeric LCD, Full Keypad **[see note 1]**	917.00
NX-300-WK4	400-470MHz 5W, 14 characters Alphanumeric LCD, Full Keypad **[see note 1]**	917.00
IP67 Custom Color Radio Housing		
NX-200-WK-YH	NX-200-WK with Yellow Housing Option Installed **[see note 1]**	934.00
NX-200-WK-OH	NX-200-WK with Orange Housing Option Installed **[see note 1]**	934.00
NX-300-WK-YH	NX-300-WK with Yellow Housing Option Installed **[see note 1]**	934.00
NX-300-WK-OH	NX-300-WK with Orange Housing Option Installed **[see note 1]**	934.00
NX-300-WK2-YH	NX-300-WK2 with Yellow Housing Option Installed **[see note 1]**	934.00
NX-300-WK2-OH	NX-300-WK2 with Orange Housing Option Installed **[see note 1]**	934.00

FACTORY MUTUAL (FM) APPROVED MODELS		LIST
Must Order L-1101 & an Intrinsically Safe Battery per radio		
NX-200-ISK	136-174MHz 5W, 14 characters Alphanumeric LCD, 6 Control Keys	684.00
NX-200-ISK2	136-174MHz 5W, 14 characters Alphanumeric LCD, Full Keypad	734.00
NX-200-ISSK	136-174MHz 5W, Non Display	625.00
NX-300-ISK	450-520MHz 5W, 14 characters Alphanumeric LCD, 6 Control Keys	684.00
NX-300-ISK2	400-470MHz 5W, 14 characters Alphanumeric LCD, 6 Control Keys	684.00
NX-300-ISK3	450-520MHz 5W, 14 characters Alphanumeric LCD, Full Keypad	734.00
NX-300-ISK4	400-470MHz 5W, 14 characters Alphanumeric LCD, Full Keypad	734.00
NX-300-ISSK2	400-470MHz 5W, Non Display	625.00
IP67 (Immersion) Package Models		
NX-200-ISWK	136-174MHz 5W, 14 characters Alphanumeric LCD, 6 Control Keys **[see note 1]**	867.00
NX-200-ISWK2	136-174MHz 5W, 14 characters Alphanumeric LCD, Full Keypad **[see note 1]**	917.00
NX-300-ISWK	450-520MHz 5W, 14 characters Alphanumeric LCD, 6 Control Keys **[see note 1]**	867.00
NX-300-ISWK2	400-470MHz 5W, 14 characters Alphanumeric LCD, 6 Control Keys **[see note 1]**	867.00
NX-300-ISWK3	450-520MHz 5W, 14 characters Alphanumeric LCD, Full Keypad **[see note 1]**	917.00
NX-300-ISWK4	400-470MHz 5W, 14 characters Alphanumeric LCD, Full Keypad **[see note 1]**	917.00
IP67 Custom Color Radio Housing		
NX-200-ISWKYH	NX-200-WK with Yellow Housing Option Installed **[see note 1]**	934.00
NX-200-ISWKOH	NX-200-WK with Orange Housing Option Installed **[see note 1]**	934.00
NX-300-ISWKYH	NX-300-WK with Yellow Housing Option Installed **[see note 1]**	934.00
NX-300-ISWKOH	NX-300-WK with Orange Housing Option Installed **[see note 1]**	934.00
NX-300-ISWK2YH	NX-300-WK2 with Yellow Housing Option Installed **[see note 1]**	934.00
NX-300-ISWK2OH	NX-300-WK2 with Orange Housing Option Installed **[see note 1]**	934.00

[note 1]: these models are stocked in minimum quantities. Please anticipate a minimum 45-90 day lead time and call order desk to verify availability. Service must be performed at one of the 3 Kenwood National Service Centers to maintain certification up to 3 years of Product's Limited Warranty period.

ANTENNAS		LIST
KRA-26M	VHF helical antenna 146-162 MHz	14.00
KRA-26M2	VHF helical antenna 162-174 MHz	14.00
KRA-26M3	VHF helical antenna 136-150 MHz	14.00
KRA-27M	UHF whip antenna 440-490 MHz	14.00
KRA-27M2	UHF whip antenna 470-520 MHz	14.00
KRA-27M3	UHF whip antenna 400-450 MHz	14.00
KRA-22M	VHF low-profile helical antenna 148-162 MHz	13.70
KRA-22M2	VHF low-profile helical antenna 162-174 MHz	13.70
KRA-22M3	VHF Low-profile helical antenna 136-150 MHz	13.70
KRA-23M	UHF low-profile helical antenna 450-490 MHz	13.70
KRA-23M2	UHF low-profile helical antenna 470-512 MHz	13.70
KRA-23M3	UHF low-profile helical antenna 403-430 MHz	13.70
KRA-25	High gain VHF helically loaded whip antenna 148-162 MHz	34.25
KRA-28	Broad-band VHF helically loaded whip antenna 140-170 MHz	42.00

BATTERIES AND CHARGERS		LIST
KNB-47L	1950 mAh, Li-ion battery - requires KSC-32/326K charger **[Immersion Option compatible]**	105.00
KNB-48L	2550 mAh, Li-ion battery - requires KSC-32/326K charger **[Immersion Option compatible]**	122.50
KNB-50NC	2000 mAh, Ni-MH battery - requires KSC-32/326K charger **[Intrinsically Safe Option] [Immersion Option compatible]**	157.50
KBP-7	AA Alkaline Refillable Battery Pack (6 AA; 9V) cells not included **Note:** the color of the case is orange	68.50
KSC-32	Rapid rate single unit charger for KNB-31A/32N/33L/41NC/43L/47L/48L/50NC **Note:** Includes 110/220V auto-switching AC adapter with U.S.-style line cord plug; requires plug adapter for 220V Euro-style outlets (not supplied).	70.00
KSC-326K	Rapid rate 6-unit charger for KNB-31A/32N/33L/41NC/43L/47L/48L/50NC	630.00
KMB-30M	Wall Mount Bracket for KSC-326K/256K	33.75
KMB-23	Six Unit Charger Adapter for the KSC-16/20/24/25/25L/32 chargers (chargers not included)	191.00
KVC-15	Rapid rate DC vehicular charger adapter for the KSC-32 (chargers not included; includes KSC-mobile bracket & cigarette lighter cable DC adapter)	119.00
KVC-20L	Vehicular D.C. Charger for 180/5**0/, NX Portables with Li-ion or Li Polymer Battery	497.00

CARRYING ACCESSORIES		LIST
KBH-11	Spring action belt clip (2.5")	14.70
KBH-8DS	Leather swivel belt loop with portable D-Ring attachment	26.30
KLH-6SW	Leather swivel belt loop / detachable swivel D-Ring back	22.00
KLH-137ST	Firemen's Heavy-Duty Leather Shoulder Strap for a Heavy-Duty Leather Case (KLH-75B/76B/78B/79B//92/122/123/133/148/154)	36.75
KLH-148K	Heavy duty leather carrying case for NX-200/300/TK-5220/5320 (Non DTMF keypad models)	44.25
KLH-148K2	Heavy duty leather carrying case for NX-200/300/TK-5220/5320 (DTMF keypad models)	44.25
KLH-149K	Nylon carrying case for NX-200/300/TK-5220/5320 (Non DTMF keypad models)	26.30
KLH-149K2	Nylon carrying case for NX-200/300/TK-5220/5320 (DTMF keypad models)	26.30

SPECIAL COLOR HOUSING		LIST
KWD-YH20-NX	Yellow Housing Kit for NX-x00 portables (6 Control Keys Version Only) Order **L-1714** for Factory Install. (required for Intrinsically Safe & IP67 radio orders)	40.00
KWD-OH20-NX	Orange Housing Kit for NX-x00 portables (6 Control Keys Version Only) Order **L-1739** for Factory Install. (required for Intyrinsically Safe & IP67 radio orders)	40.00

MICROPHONES & AUDIO ACCESSORIES		LIST
KMC-51M	MIL-SPEC, IP54/55 DSP Digital Noise-canceling Speaker Mic **[see note 2]**	250.00
KMC-52W	MIL-SPEC, **IP67 (Immersion)** DSP Digital Noise-canceling Speaker Mic **[see note 2]** **Note**: Radio does not have an IP67 Immersion option; meets MIL STD810 rain standards	300.00
	[note 2]: To adjust microphone settings different from factory default, download KPG-147NC configuration software and special configuration firmware from Kenwood Tools (no charge).	
KMC-47GPS	GPS Speaker Microphone [Immersion Option compatible]	290.00
KMC-40	MIL-SPEC, Speaker Mic. with Antenna Connector **[Intrinsically Safe Approved Accessory]** **Note**: 5/16" Coax cable hex wrench included (antenna is not included).	250.00
KMC-41M	MIL-SPEC, IP54/55 Noise-canceling Speaker Mic **[Intrinsically Safe Approved Accessory]**	96.50
KMC-42WM	MIL-SPEC, **IP67 (Immersion)** Noise-canceling Speaker Mic **[Intrinsically Safe Approved Accessory]** **Note:** Radio does not have an IP67 Immersion option; meets MIL STD810 rain standards	114.00
KEP-1	3.5mm earphone kit for KMC-25/26/41M/42WM Speaker Mics **[Intrinsically Safe Approved Accessory]**	52.50
KCT-30	2.5mm Audio Accessory Adapter for KEP-3/4 **[Intrinsically Safe Approved Accessory]**	64.00
KCT-51	Hirose 6-pin Adapter (adapts KVL/aftermarket audio acc. to portable connector) **[Intrinsically Safe Approved Accessory]**	215.00
KEP-3	30" Earphone kit w/ 2.5mm plug for KCT-30 **[Intrinsically Safe Approved Accessory]**	51.50
KEP-4	48" Earphone kit w/ 2.5mm plug for KCT-30 **[Intrinsically Safe Approved Accessory]**	54.75
KHS-11BE	2-wire palm mic w/earphone, universal connector (Beige) **[Intrinsically Safe Approved Accessory]**	156.50

MICROPHONES & AUDIO ACCESSORIES - CONT'D		LIST
KHS-11BL	2-wire palm mic w/earphone, universal connector (Black) **[Intrinsically Safe Approved Accessory]**	156.50
KHS-12BE	3-wire mini lapel mic w/earphone, universal connector (Beige) **[Intrinsically Safe Approved Accessory]**	184.00
KHS-12BL	3-wire mini lapel mic w/earphone, universal connector (Black) **[Intrinsically Safe Approved Accessory]**	184.00
KHS-14	Lt. Wt. Single muff headset w/boom mic & In-line PTT **[Intrinsically Safe Approved Accessory]**	126.00
KHS-15-BH	Hvy-duty noise reduction behind-the-headset w/noise cancelling boom mic & in-line PTT **[Intrinsically Safe Approved Accessory]**	420.00
KHS-15-OH	Hvy-duty noise reduction over-the-headset w/noise cancelling boom mic & in-line PTT **[Intrinsically Safe Approved Accessory]**	368.00

FIRMWARE OPTIONS		LIST
KWD-P25C	P25 Flash upgrade; NX-200/300/700/800 Must order **L-1662** **Note**: KWD-P25C will be Kenwood factory installed only (units must be returned for upgrade)	792.00

SOFTWARE OPTIONS		LIST
KPG-150AP	NEXEDGE OTAP Manager Windows Software. • License Includes 10 radios / 1 Serial Port* • To add more radios/serial ports, you must contact Kenwood Systems Division [1-800-TRUNKING]	550.00
KPG-151AE	AES/DES Encryption Software Key Loader for KWD-DE21K/KWD-AE21K **Note**: KPG-151AE is a U.S. DOC/BIS Export Controlled Item (ECCN 5D002A) **- See IMPORTANT NOTES -**	525.00

OPTION MODULES		LIST
KCT-48VU	External Vibration Unit **[Intrinsically Safe Approved Accessory]** **Note:** Audio accessories cannot be used when this option installed.	49.00
KCT-57MS	Man-Down Internal Tilt Switch (Non-Mercury) **[Intrinsically Safe Approved Accessory]**- Must be Kenwood installed for I.S. Order **L-1093** for NXDN®/FleetSync® operations	22.00
KWD-AE20K	AES FIPS140-2 & DES Encryption Module for TK-5*10/5*20 & NX-*00/*10 Portables & Mobiles (except K7 & S Portable) **[Intrinsically Safe Approved Accessory]** - Order a Labor Code **L-1717** if installation is required. KWD-AE20K requires: a Motorola KVL3000 Plus key loader device. KWD-AE20K is an U.S. DOC/BIS Export Controlled Item (ECCN 5A002A.1) **- See IMPORTANT NOTES -**	998.00
KWD-AE21K	AES & DES Encryption Module for TK-5*10/5*20 & NX-*00/*10 Portables & Mobiles (except K7 & S Portable) **[Intrinsically Safe Approved Accessory]** - Order a Labor Code (**L-1718**) if installation is required. **Note**: Requires KPG-151AE software key loader or Motorola KVL3000 Plus key loader device. KWD-AE21K is an U.S. DOC/BIS Export Controlled Item (ECCN 5A002A.1) **- See IMPORTANT NOTES -**	998.00
KWD-DE21K	DES Encryption Module for TK-5*10/5*20 & NX-*00/*10 Portables & Mobiles (except S Portable) **[Intrinsically Safe Approved Accessory]** - Order a Labor Code (**L-1719)** if installation is required **Note**: Requires KPG-151AE software key loader or Motorola KVL3000 Plus key loader device. KWD-DE21K is a U.S. DOC/BIS Export Controlled Item (ECCN 5A992A) **- See IMPORTANT NOTES -**	578.00
VGS-1	Voice Guide and Storage Unit **[Intrinsically Safe Approved Accessory]**	87.50

SERVICE RELATED ACCESSORIES		LIST
KPG-111DNK	Windows® Programming Software for NX-200/210/300/410/411/700/800/900/901 (Compliant with FCC Part 90 Narrowbanding)	103.25
KPG-36UM	USB Programming interface cable	158.50

INSTALLATION / TUNING CHARGES		**LIST**
L-961	Assemble KMB-23 with six KSC-32K's (Rapid Rate, 120 Volt version only)	17.00
L-1084	NX-200(S)/300(S) Programming (with basic TX/RX check)	37.50
L-1087	Install VGS-1 Voice Guide & Storage Unit	25.00
L-1093	NX-200(S)/300(S) Portable KCT-57MS Installation (for NXDN® / FleetSync®)	20.00
L-1100	Multi-Channel Encoder Modification	25.00
L-1101	Configure NX-200/300 for Intrinsically Safe **Must order an I.S. battery**	70.00
L-1662	NX-200/300 P25 Conventional Software Upgrade **Must order a KWD-P25C firmware option**	N/C
L-1714	Assemble Yellow Housing KWD-YH20-NX with NX-200K/300K/300K3 Portable	27.00
L-1717	Install KWD-AE20K in NX-200/300 Portables (Must purchase module separately)	75.00
L-1718	Install KWD-AE21K in NX-200/300 Portables (Must purchase module separately)	75.00
L-1719	Install KWD-DE21K in NX-200/300 Portables (Must purchase module separately)	75.00
L-1739	Assemble Orange Housing KWD-OH20-NX with NX-200K/300K/300K3 Portable	27.00

MPT FIRMWARE/ACCESSORIES/TUNING		**LIST**
KPG-143DNK	Windows® Programming Software for NX series MPT (Compliant with FCC Part 90 Narrowbanding) (Dealer Level License ID included) **Note**: Must order **L-1727** for Network Level License ID & programming privileges	103.25
KWD-NX10MPT	MPT Trunking Field Upgrade Kit for NX series radio Must order **L-1729** **Note:** Not compatible with any other firmware options. Radio does not retain LTR trunking features once the MPT option is installed.	66.70
L-1726	Install MPT option in NX series radio	25.00
L-1727	Network Level License ID for KPG-143D(N) NX series Programmer	158.33
L-1728	Retrofit Install of MPT option in NX seires radio For previously purchased NX series radios. Order L-1728 through LMR order desk/rep. Ship radios to attn: Kenwood LMR Tuning, Long Beach for installation. Include Kenwood order number for L-1728 provided by order desk & copy of company P.O. or P.O. number. **Note:** see NX series MPT Introduction Sales Bulletin for details	85.00
L-1729	NX Series Radio MPT Firmware FIELD-UPGRADE (Must purchase KWD-NX10MPT separately)	NC
L-1730	Install KCT-57MS (for MPT Emergency Call)	20.00

PassPort® for NX-200/300 Series Portables

PassPort® Options for NEW Radio Orders (Kenwood-installed)

KPG-163DNK	Programming software for NX-200/300/700/800 with PassPort®/NEXEDGE® Options Installed (12.5 /6.25 CH bandwidths only) • Programs NEXEDGE, PassPort®, LTR & analog Conventional modes. • Not for use on a standard NEXEDGE radios • **KPG-111D(N) Must be installed in PC prior to installing KPG-163DNK.**	165.00
L-1743	Install PassPort®-Classic / NEXEDGE option in NX- 200/300/700/800 • Order one per radio • KPG-163DNK required to program radio	80.00
L-1744	Install PassPort®-Enhanced / NEXEDGE Option in NX- 200/300/700/800 • Order one per radio • KPG-163DNK required to program radio	108.35
PGM-NX-PP	PassPort ESN Generator device for NX-200/300/700/800 **Note: PGM-NX-PP is stocked in minimum quantities. Please anticipate a minimum of 30 day lead time and call order desk to verify availability.** • The TK-x180 PassPort ESN Generator device is NOT compatible for NX-x00 ESN loads. • The PGM-NX-PP requires older KPG-36AM (portable) & KPG-46AM (mobile) radio program interface cables with serial DB9 and an aftermarket DB9F-to-DB25M adapter ("KPG-XXUM" USB style cables are not compatible).	200.00

PassPort® Options for Dealer/Operator Field Conversions (Field-installation kits) - Information on following page

PassPort® Options for Dealer/Operator Field Conversions (Field-installation kits)

KPG-163DNK	Programming software for NX-200/300/700/800 with PassPort®/NEXEDGE® Options Installed (12.5 /6.25 CH bandwidths only) • Programs NEXEDGE, PassPort®, LTR & analog Conventional modes. • Not for use on a standard NEXEDGE radios • **KPG-111D(N) Must be installed in PC prior to installing KPG-163DNK.**	165.00
L-1745	Field Retrofit PassPort®-Classic / NEXEDGE option for NX-200/300/700/800 (order one option per the number of ESNs required) • ESN activation file with ordered number of ESNs and firmware will be shipped on a CD ROM. Allow 15 business days ARO. • KPG-163DNK required to program radio • **Requires PGM-NX-PP PassPort ESN Generator device** • Note: The TK-x180 PassPort ESN Generator device is NOT compatible for NX-x00 ESN loads.	80.00
L-1746	Field Retrofit PassPort®-Enhanced / NEXEDGE Option for NX-200/300/700/800 orders (order option one per the number of ESNs required) • ESN activation file with ordered number of ESNs and firmware will be shipped on a CD ROM. Allow 15 business days ARO. • KPG-163DNK required to program radio • **Requires PGM-NX-PP PassPort ESN Generator device** • Note: The TK-x180 PassPort ESN Generator device is NOT compatible for NX-x00 ESN loads.	108.35
PGM-NX-PP	PassPort ESN Generator device for NX-200/300/700/800 **Note: PGM-NX-PP is stocked in minimum quantities. Please anticipate a minimum of 30 day lead time and call order desk to verify availability.** • The TK-x180 PassPort ESN Generator device is NOT compatible for NX-x00 ESN loads. • The PGM-NX-PP requires older KPG-36AM (portable) & KPG-46AM (mobile) radio program interface cables with serial DB9 and an aftermarket DB9F-to-DB25M adapter ("KPG-XXUM" USB style cables are not compatible).	200.00

-- IMPORTANT NOTES --
Encryption modules, key loaders and radios containing encryption are export controlled by the U.S. Department of Commerce Bureau of Industry & Security EAR regulations and may either require an Export License, are eligible for a License Exception (ENC) or are exportable with No License Required (NLR) depending on the country, the consignee and the intended use. High level encryption is a special commodity that may require an export license to most countries. See www.bis.gov for more information regarding export regulations. DO NOT SHIP encryption items outside the U.S. without proper DOC/BIS Export Licenses and/or compliances.

Kenwood may request the following information to be submitted at time of order (this information must meet Kenwood internal approvals prior to shipment even if being returned to Kenwood later:

a) Initial Destination: Initial delivery point if different from Ultimate Destination
(customer distribution center, headquarters, dealership, manufacturer's representative)
* Business/Agency Name:
* Address:
* Contact Person Name:
* Contact Phone:
b) Ultimate Destination: Final delivery point(s); deployment/distribution
* Business/Agency Name:
* Address:
* Contact Person Name:
* Contact Phone:
c) Intended Use of Radios: Law enforcement, security, operations, etc.

KWD-AE20 AES FIPS140-2 SCM , NIST Validation & Customer Shipping
A secure delivery method direct to the end user customer is required by the NIST AES FIPS 140-2 validation rules. For U.S. Federal Government entities the SCM must ship from Kenwood USA Corporation directly to the end user customer by a trusted carrier (FEDEX, UPS or a designated Kenwood USA Corporation employee); shipping/handling by a dealer or other entity is not acceptable. This may or may not be required by local/state government agencies or business/industrial users. Please check with the end use customer about their AES encryption handling requirements before ordering. Kenwood will not be responsible for shipments of KWD-AE20K modules to erroneous destinations specified on an order.

NX-200G/300G

NEXEDGE® VHF/UHF Digital & FM Analog Portable Radios (w/ built-in GPS)

GENERAL FEATURES
• 5 W (136-174 MHz) Models
• 5 W (400-470, 450-520 MHz) Models
• 512 CH-GID / 128 Zones
• 12-Key Keypad Models
• 14 Character Alphanumeric Aliases
• Backlit Dot Matrix LCD
• Function/Status LCD Icons
• Multi-Language Display
• Date & 12/24 Hour Time Clock
• Transmit/Busy/Call Alert/Warn LED
• On/Off Volume Knob
• 16-Position Mechanical Selector
• 6 Front PF & Menu Keys
• 2 Side PF Keys
• 500 mW Speaker Audio
• Emergency Call Features
• Built-in GPS Unit
(KRA-43G/44G is required for GPS operation)
• KMC-51/52 Digital Noise-Canceling Speaker Mic Option
• KPG-111D Windows® FPU
• Flash Firmware Upgrading
• MIL-STD-810 C/D/E/F/G
• IP54/55 Water & Dust Intrusion
• Immersion (IP67) Option
• PC Serial Interface
• SDM Manual Input1
• Transparent Data Mode
• VGS-1 Voice Guide/ Voice & GPS Data Storage Option
• Color Housing Option

DIGITAL – GENERAL
• NXDN® Digital Air Interface
• AMBE+2™ VOCODER
• 6.25 & 12.5 kHz Channels
• Over-the-Air Alias
• Over-the-Air Programming
• Paging Call
• Emergency Call
• All Group Call
• Status Messaging
• Remote Stun/Kill/Check
• Short & Long Data Messages
• GPS Location with Voice
• NXDN® Scrambler Included
• DES Encryption Module Option
• AES & DES Encryption Module Option
• AES/DES Software Key Loader Option

DIGITAL – CONVENTIONAL MODE
• 64 Radio Access Numbers (RAN)
• Individual & Group Selective Call
• Mixed FM/Digital Operation
• Conventional IP Networks
• Site Roaming

DIGITAL – TRUNKING MODE
• Individual Private Call
• Group Call & Broadcast Call
• Telephone Interconnect
• Transmission Trunked Mode
• Message Trunked Mode
• Call Queuing with Priority
• Late Entry (UID & GID)
• 4 Priority Monitor ID's
• Remote Group Add
• Failsoft Mode

MULTI-SITE IP NETWORKS COMPATIBLE
• 60,000 GIDs / UIDs
• Wide Area Group Call
• Auto Roaming Registration
• Group Registration

MULTI-SYSTEM COMPATIBLE
• 8 Trunked Networks per radio (each in a zone)
• UID Lists for each network

SCAN
• Single Zone / Multi-Zone / List Scan
• Dual Priority Scan (Conventional)

ANALOG MODE – GENERAL
• 25 & 12.5 kHz Channels
• Conventional & LTR® Zones
• FleetSync®/II, MDC-1200, DTMF
• QT / DQT & Two-Tone (Conventional Zones Only)
• Voice Inversion Scrambler
• Analog Scrambler Board Capability

FleetSync®/II (FM)
• PTT ID ANI / Caller ID
• Selective / Group Call
• Emergency Status / Text Messages

MDC-1200
• PTT ID ANI / Caller ID
• Emergency / Radio Check & Inhibit

All NX-G series portables include:
• Belt Clip (KBH-11)
• Universal Connector Cap
• Instruction Manual
• Premium Warranty: 3 Years*

* All Accessories / options: 1 Year

Purchase Battery, Charger, Antenna separately

RADIO		LIST
NX-200GK	136-174MHz 5W, 14 characters Alphanumeric LCD, 6 Control Keys	684.00
NX-200GK2	136-174MHz 5W, 14 characters Alphanumeric LCD, Full Keypad	734.00
NX-300GK	450-520MHz 5W, 14 characters Alphanumeric LCD, 6 Control Keys	684.00
NX-300GK2	400-470MHz 5W, 14 characters Alphanumeric LCD, 6 Control Keys	684.00
NX-300GK3	450-520MHz 5W, 14 characters Alphanumeric LCD, Full Keypad	734.00
NX-300GK4	400-470MHz 5W, 14 characters Alphanumeric LCD, Full Keypad	734.00

RADIO - CONT'D		LIST
IP67 (Immersion) Package Models		
NX-200-WGK	136-174MHz 5W, 14 characters Alphanumeric LCD, 6 Control Keys **[see note 1]**	867.00
NX-200-WGK2	136-174MHz 5W, 14 characters Alphanumeric LCD, Full Keypad **[see note 1]**	917.00
NX-300-WGK	450-520MHz 5W, 14 characters Alphanumeric LCD, 6 Control Keys **[see note 1]**	867.00
NX-300-WGK2	400-470MHz 5W, 14 characters Alphanumeric LCD, 6 Control Keys **[see note 1]**	867.00
NX-300-WGK3	450-520MHz 5W, 14 characters Alphanumeric LCD, Full Keypad **[see note 1]**	917.00
NX-300-WGK4	400-470MHz 5W, 14 characters Alphanumeric LCD, Full Keypad **[see note 1]**	917.00
IP67 Custom Color Radio Housing		
NX-200-WGKYH	NX-200-WK with Yellow Housing Option Installed **[see note 1]**	934.00
NX-200-WGKOH	NX-200-WK with Orange Housing Option Installed **[see note 1]**	934.00
NX-300-WGKYH	NX-300-WK with Yellow Housing Option Installed **[see note 1]**	934.00
NX-300-WGKOH	NX-300-WK with Orange Housing Option Installed **[see note 1]**	934.00
NX-300-WGK2YH	NX-300-WK2 with Yellow Housing Option Installed **[see note 1]**	934.00
NX-300-WGK2OH	NX-300-WK2 with Orange Housing Option Installed **[see note 1]**	934.00

[note 1]: these models are stocked in minimum quantities. Please anticipate a minimum 45-90 day lead time and call order desk to verify availability. Service must be performed at one of the 3 Kenwood National Service Centers to maintain certification up to 3 years of Product's Limited Warranty period.

ANTENNAS		LIST
KRA-43GM	VHF helical antenna 146-162 MHz (w/GPS)	17.40
KRA-43GM2	VHF helical antenna 162-174 MHz (w/GPS)	17.40
KRA-43GM3	VHF helical antenna 136-150 MHz (w/GPS)	17.40
KRA-44GM	UHF helical antenna 440-490 MHz (w/GPS)	17.40
KRA-44GM2	UHF helical antenna 470-520 MHz (w/GPS)	17.40
KRA-44GM3	UHF helical antenna 400-450 MHz (w/GPS)	17.40
KRA-26M	VHF helical antenna 146-162 MHz	14.00
KRA-26M2	VHF helical antenna 162-174 MHz	14.00
KRA-26M3	VHF helical antenna 136-150 MHz	14.00
KRA-27M	UHF whip antenna 440-490 MHz	14.00
KRA-27M2	UHF whip antenna 470-520 MHz	14.00
KRA-27M3	UHF whip antenna 400-450 MHz	14.00
KRA-22M	VHF low-profile helical antenna 148-162 MHz	13.70
KRA-22M2	VHF low-profile helical antenna 162-174 MHz	13.70
KRA-22M3	VHF Low-profile helical antenna 136-150 MHz	13.70
KRA-23M	UHF low-profile helical antenna 450-490 MHz	13.70
KRA-23M2	UHF low-profile helical antenna 470-512 MHz	13.70
KRA-23M3	UHF low-profile helical antenna 403-430 MHz	13.70
KRA-25	High gain VHF helically loaded whip antenna 148-162 MHz	34.25
KRA-28	Broad-band VHF helically loaded whip antenna 140-170 MHz	42.00

BATTERIES AND CHARGERS		LIST
KNB-47L	1950 mAh, Li-ion battery - requires KSC-32/326K charger **[Immersion Option compatible]**	105.00
KNB-48L	2550 mAh, Li-ion battery - requires KSC-32/326K charger **[Immersion Option compatible]**	122.50
KBP-7	AA Alkaline Refillable Battery Pack (6 AA; 9V) cells not included **Note:** the color of the case is orange	68.50
KSC-32	Rapid rate single unit charger for KNB-31A/32N/33L/41NC/43L/47L/48L/50NC **Note:** Includes 110/220V auto-switching AC adapter with U.S.-style line cord plug; requires plug adapter for 220V Euro-style outlets (not supplied).	70.00
KSC-326K	Rapid rate 6-unit charger for KNB-31A/32N/33L/41NC/43L/47L/48L/50NC	630.00
KMB-30M	Wall Mount Bracket for KSC-326K/256K	33.75
KMB-23	Six Unit Charger Adapter for the KSC-16/20/24/25/25L/32 chargers (chargers not included)	191.00

BATTERIES AND CHARGERS CONT'D		*LIST*
KVC-15	Rapid rate DC vehicular charger adapter for the KSC-32 (chargers not included; includes KSC-mobile bracket & cigarette lighter cable DC adapter)	119.00
KVC-20L	Vehicular D.C. Charger for 180/5**0/, NX Portables with Li-ion or Li Polymer Battery	497.00

CARRYING ACCESSORIES		*LIST*
KBH-11	Spring action belt clip (2.5")	14.70
KBH-8DS	Leather swivel belt loop with portable D-Ring attachment	26.30
KLH-6SW	Leather swivel belt loop / detachable swivel D-Ring back	22.00
KLH-137ST	Firemen's Heavy-Duty Leather Shoulder Strap for a Heavy-Duty Leather Case (KLH-75B/76B/78B/79B//92/122/123/133/148/154)	36.75
KLH-148K	Heavy duty leather carrying case for NX-200/300/TK-5220/5320 (Non DTMF keypad models)	44.25
KLH-148K2	Heavy duty leather carrying case for NX-200/300/TK-5220/5320 (DTMF keypad models)	44.25
KLH-149K	Nylon carrying case for NX-200/300/TK-5220/5320 (Non DTMF keypad models)	26.30
KLH-149K2	Nylon carrying case for NX-200/300/TK-5220/5320 (DTMF keypad models)	26.30

SPECIAL COLOR HOUSING		*LIST*
KWD-YH20-NX	Yellow Housing Kit for NX-x00 portables (6 Control Keys Version Only) Order **L-1714** for Factory Install. (required for Intrinsically Safe & IP67 radio orders)	40.00
KWD-OH20-NX	Orange Housing Kit for NX-x00 portables (6 Control Keys Version Only) Order **L-1739** for Factory Install. (required for Intyrinsically Safe & IP67 radio orders)	40.00

MICROPHONES & AUDIO ACCESSORIES		*LIST*
KMC-51M	MIL-SPEC, IP54/55 DSP Digital Noise-canceling Speaker Mic **[see note 2]**	250.00
KMC-52W	MIL-SPEC, **IP67 (Immersion)** DSP Digital Noise-canceling Speaker Mic **[see note 2]** **Note**: Radio does not have an IP67 Immersion option; meets MIL STD810 rain standards	300.00
	[note 2]: To adjust microphone settings different from factory default, download KPG-147NC configuration software and special configuration firmware from Kenwood Tools (no charge).	
KMC-47GPS	GPS Speaker Microphone [Immersion Option compatible]	290.00
KMC-41M	MIL-SPEC, IP54/55 Noise-canceling Speaker Mic	96.50
KMC-42WM	MIL-SPEC, **IP67 (Immersion)** Noise-canceling Speaker Mic **Note**: Radio does not have an IP67 Immersion option; meets MIL STD810 rain standards	114.00
KEP-1	3.5mm earphone kit for KMC-25/26/41M/42WM Speaker Mics	52.50
KCT-30	2.5mm Audio Accessory Adapter for KEP-3/4	64.00
KCT-51	Hirose 6-pin Adapter (adapts KVL/aftermarket audio acc. to portable connector)	215.00
KEP-3	30" Earphone kit w/ 2.5mm plug for KCT-30	51.50
KEP-4	48" Earphone kit w/ 2.5mm plug for KCT-30	54.75
KHS-11BE	2-wire palm mic w/earphone, universal connector (Beige)	156.50
KHS-11BL	2-wire palm mic w/earphone, universal connector (Black)	156.50
KHS-12BE	3-wire mini lapel mic w/earphone, universal connector (Beige)	184.00
KHS-12BL	3-wire mini lapel mic w/earphone, universal connector (Black)	184.00
KHS-14	Lt. Wt. Single muff headset w/boom mic & In-line PTT	126.00
KHS-15-BH	Hvy-duty noise reduction behind-the-headset w/noise cancelling boom mic & in-line PTT	420.00
KHS-15-OH	Hvy-duty noise reduction over-the-headset w/noise cancelling boom mic & in-line PTT	368.00

SOFTWARE OPTIONS		*LIST*
KPG-150AP	NEXEDGE OTAP Manager Windows Software. • License Includes 10 radios / 1 Serial Port* • To add more radios/serial ports, you must contact Kenwood Systems Division [1-800-TRUNKING]	550.00
KPG-151AE	AES/DES Encryption Software Key Loader for KWD-DE21K/KWD-AE21K **Note**: KPG-151AE is a U.S. DOC/BIS Export Controlled Item (ECCN 5D002A) **- See IMPORTANT NOTES -**	525.00

OPTION MODULES		*LIST*
KCT-48VU	External Vibration Unit **Note:** Audio accessories cannot be used when this option installed.	49.00
KCT-57MS	Man-Down Internal Tilt Switch (Non-Mercury) Order **L-1093** for NXDN®/FleetSync® operations	22.00
KWD-AE20K	AES FIPS140-2 & DES Encryption Module for TK-5*10/5*20 & NX-*00/*10 Portables & Mobiles (except K7 & S Portable) Order a Labor Code **L-1717** if installation is required. **[see Note 3]** KWD-AE20K requires: a Motorola KVL3000 Plus key loader device. KWD-AE20K is an U.S. DOC/BIS Export Controlled Item (ECCN 5A002A.1) **- See IMPORTANT NOTES -**	998.00
KWD-AE21K	AES & DES Encryption Module for TK-5*10/5*20 & NX-*00/*10 Portables & Mobiles (except K7 & S Portable) **[see Note 3]** Order a Labor Code (**L-1718**) if installation is required. **Note**: Requires KPG-151AE software key loader or Motorola KVL3000 Plus key loader device. KWD-AE21K is an U.S. DOC/BIS Export Controlled Item (ECCN 5A002A.1) **- See IMPORTANT NOTES -**	998.00
KWD-DE21K	DES Encryption Module for TK-5*10/5*20 & NX-*00/*10 Portables & Mobiles (except S Portable) **[see Note 3]** Order a Labor Code (**L-1719**) if installation is required **Note**: Requires KPG-151AE software key loader or Motorola KVL3000 Plus key loader device. KWD-DE21K is a U.S. DOC/BIS Export Controlled Item (ECCN 5A992A) **- See IMPORTANT NOTES -**	578.00
VGS-1	Voice Guide and Storage Unit **[see Note 3]**	87.50
	[note 3]: To install an AES/DES module, a DES module, or a VGS unit, a GPS unit must be removed.	

SERVICE RELATED ACCESSORIES		*LIST*
KPG-111DNK **(Ver 4.4 or newer)**	Windows® Programming Software for NX-200/210/300/410/411/700/800/900/901 (Compliant with FCC Part 90 Narrowbanding)	103.25
KPG-36UM	USB Programming interface cable	158.50

INSTALLATION / TUNING CHARGES		*LIST*
L-961	Assemble KMB-23 with six KSC-32K's (Rapid Rate, 120 Volt version only)	17.00
L-1084	NX-200(S)/300(S) Programming (with basic TX/RX check)	37.50
L-1087	Install VGS-1 Voice Guide & Storage Unit	25.00
L-1093	NX-200(S)/300(S) Portable KCT-57MS Installation (for NXDN® / FleetSync®)	20.00
L-1100	Multi-Channel Encoder Modification	25.00
L-1714	Assemble Yellow Housing KWD-YH20-NX with NX-200K/300K/300K3 Portable	27.00
L-1717	Install KWD-AE20K in NX-200/300 Portables (Must purchase module separately)	75.00
L-1718	Install KWD-AE21K in NX-200/300 Portables (Must purchase module separately)	75.00
L-1719	Install KWD-DE21K in NX-200/300 Portables (Must purchase module separately)	75.00
L-1739	Assemble Orange Housing KWD-OH20-NX with NX-200K/300K/300K3 Portable	27.00

-- IMPORTANT NOTES --

Encryption modules, key loaders and radios containing encryption are export controlled by the U.S. Department of Commerce Bureau of Industry & Security EAR regulations and may either require an Export License, are eligible for a License Exception (ENC) or are exportable with No License Required (NLR) depending on the country, the consignee and the intended use. High level encryption is a special commodity that may require an export license to most countries. See www.bis.gov for more information regarding export regulations. DO NOT SHIP encryption items outside the U.S. without proper DOC/BIS Export Licenses and/or compliances.

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a) Initial Destination: Initial delivery point if different from Ultimate Destination
(customer distribution center, headquarters, dealership, manufacturer's representative)
* Business/Agency Name:
* Address:
* Contact Person Name:
* Contact Phone:
b) Ultimate Destination: Final delivery point(s); deployment/distribution
* Business/Agency Name:
* Address:
* Contact Person Name:
* Contact Phone:
c) Intended Use of Radios: Law enforcement, security, operations, etc.

KWD-AE20 AES FIPS140-2 SCM , NIST Validation & Customer Shipping
A secure delivery method direct to the end user customer is required by the NIST AES FIPS 140-2 validation rules. For U.S. Federal Government entities the SCM must ship from Kenwood USA Corporation directly to the end user customer by a trusted carrier (FEDEX, UPS or a designated Kenwood USA Corporation employee); shipping/handling by a dealer or other entity is not acceptable. This may or may not be required by local/state government agencies or business/industrial users. Please check with the end use customer about their AES encryption handling requirements before ordering. Kenwood will not be responsible for shipments of KWD-AE20K modules to erroneous destinations specified on an order.

KENWOOD

NX-210

NEXEDGE® VHF Digital & FM Analog Portable Radio

210 series portable include:
• Belt Clip (KBH-11)
• Universal Connector Cap
• Instruction Manual
• Premium Warranty: 3 Years*

* All Accessories / options: 1 Year

Order packages to include Battery, Charger & Antenna, or purchase Battery, Charger, and Antenna separately.

GENERAL FEATURES
• 5 W (136-174 MHz) Model
• 512 CH-GID / 128 Zones
• 12-Key Keypad Model
• 14 Character Alphanumeric Aliases
• Backlit Dot Matrix LCD
• Function/Status LCD Icons
• Multi-Language Display
• Date & 12/24 Hour Time Clock
• Transmit/Busy/Call Alert/Warn LED
• On/Off Volume Knob
• 6 Front PF & Menu Keys
• 2 Side PF Keys
• Emergency/AUX Key
• 500 mW Speaker Audio
• KMC-47GPS Speaker Mic Option
• KPG-111D Windows® FPU
• Flash Firmware Upgrading
• MIL-STD-810 C/D/E/F/G
• MIL-STD "Driven-Rain"
• IP54/55 Water & Dust Intrusion
• PC Serial Interface
• SDM Manual Input
• Transparent Data Mode
• Intrinsically Safe Option
• VGS-1 Voice Guide/Voice & GPS Data Storage Option

DIGITAL – GENERAL
• NXDN® Digital Air Interface
• AMBE+2™ VOCODER
• 6.25 & 12.5 kHz Channels
• Over-the-Air Alias
• Over-the-Air Programming
• Paging Call
• Emergency Call
• All Group Call
• Status Messaging
• Remote Stun/Kill
• Remote Check
• Short & Long Data Messages
• GPS Location with Voice
• NXDN® Scrambler Included
• DES Encryption Module Option
• AES & DES Encryption Module Option
• AES/DES Software Key Loader Option

DIGITAL – CONVENTIONAL MODE
• 64 Radio Access Numbers (RAN)
• Individual & Group Selective Call
• Mixed FM/Digital Operation
• Conventional IP Networks
• Site Roaming

DIGITAL – TRUNKING MODE
• Individual Private Call
• Group Call & Broadcast Call
• Telephone Interconnect
• Transmission Trunked Mode
• Message Trunked Mode
• Call Queuing with Priority
• Late Entry (UID & GID)
• 4 Priority Monitor ID's
• Remote Group Add
• Failsoft Mode

MULTI-SITE IP NETWORKS COMPATIBLE
• 60,000 GIDs / UIDs
• Wide Area Group Call
• Auto Roaming Registration
• Group Registration

SCAN
• Single Zone / Multi-Zone / List Scan
• Dual Priority Scan (Conventional)

ANALOG MODE – GENERAL
• 25 & 12.5 kHz Channels
• Conventional & LTR® Zones
• FleetSync®/II, MDC-1200, DTMF
• QT / DQT & Two-Tone (Conventional Zones Only)
• Voice Inversion Scrambler
• Analog Scrambler Board Capability

FleetSync®/II (FM)
• PTT ID ANI / Caller ID
• Selective / Group Call
• Emergency Status / Text Messages

MDC-1200
• PTT ID ANI / Caller ID
• Emergency / Radio Check & Inhibit

* Approved by CSA International Inc. for Classes I, II & III, Div. 1, Groups C, D, E, F, G and are also approved for non-Incendive use in Class I, Div. 2, Groups A, B, C, D hazardous locations.
Note: Class I, Div 2 Group A & B Gases require use of a portable carrying case.

PACKAGE		LIST
NX-210K2-LKP	136-174MHz 5W, 14 characters Alphanumeric LCD, 6 Control Keys, Full Keypad VHF Li-Ion Battery Package (NX-210K2 + KNB-33L + KSC-32 + KBH-11 + KRA-26M)	923.00

RADIO		LIST
NX-210K2	136-174MHz 5W, 14 characters Alphanumeric LCD, 6 Control Keys, Full Keypad	734.00

CSA APPROVED I.S. MODEL		LIST
	Must Order L-1750 & an Intrinsically Safe Battery per radio	
NX-210-ISK2	136-174MHz 5W, 14 characters Alphanumeric LCD, 6 Control Keys, Full Key (I.S.)	734.00

ANTENNAS		LIST
KRA-26M	VHF helical antenna 146-162 MHz	14.00
KRA-26M2	VHF helical antenna 162-174 MHz	14.00
KRA-26M3	VHF helical antenna 136-150 MHz	14.00
KRA-22M	VHF low-profile helical antenna 148-162 MHz	13.70
KRA-22M2	VHF low-profile helical antenna 162-174 MHz	13.70
KRA-22M3	VHF Low-profile helical antenna 136-150 MHz	13.70
KRA-25	High gain VHF helically loaded whip antenna 148-162 MHz	34.25
KRA-28	Broad-band VHF helically loaded whip antenna 140-170 MHz	42.00

BATTERIES AND CHARGERS		LIST
KNB-54N	2500 mAh, Ni-MH battery - requires KSC-32/326K charger	87.50
KNB-33L	2000 mAh, Li-ion battery - requires KSC-32/326K charger	105.00
KNB-41NC-CSA-US	2500 mAh, Ni-MH battery - requires KSC-32/326K charger **[CSA Intrinsically Safe Option]**	136.50
KNB-43L	3300 mAh, Li-Polymer battery - requires KSC-32/326K charger	163.00
KNB-49PL	4500 mAh, Primary Lithium battery **Note**: **Non-Rechargeable** (please recycle all batteries properly) 10 year Shelf Life (approx. 1% charge degradation per year when properly stored: +50 ℉ to +86 ℉ @ less than 70% humidity	84.00
KBP-6	AA Alkaline Refillable Battery Pack (6 AA; 9V) cells not included **Note:** the color of the case is orange	68.50
KSC-32	Rapid rate single unit charger for KNB-31A/32N/33L/41NC/43L/47L/48L/50NC **Note:** Includes 110/220V auto-switching AC adapter with U.S.-style line cord plug; requires plug adapter for 220V Euro-style outlets (not supplied).	70.00
KSC-326K	Rapid rate 6-unit charger for KNB-31A/32N/33L/41NC/43L/47L/48L/50NC	630.00
KMB-30M	Wall Mount Bracket for KSC-326K/256K	33.75
KMB-23	Six Unit Charger Adapter for the KSC-16/20/24/25/25L/32 chargers (chargers not included)	191.00
KVC-15	Rapid rate DC vehicular charger adapter for the KSC-32 (chargers not included; includes KSC-mobile bracket & cigarette lighter cable DC adapter)	119.00
KVC-18	Vehicular D.C. Charger for 180/5*10 Portables with NiCd or NiMH Battery	446.50
KVC-20L	Vehicular D.C. Charger for 180/5**0/, NX Portables with Li-ion or Li Polymer Battery	497.00

CARRYING ACCESSORIES		LIST
KBH-10	Low profile spring action belt clip (for use with KNB-33L Only)	8.35
KBH-11	Spring action belt clip (2.5")	14.70
KBH-8DS	Leather swivel belt loop with portable D-Ring attachment	26.30
KLH-6SW	Leather swivel belt loop / detachable swivel D-Ring back	22.00
KLH-137ST	Firemen's Heavy-Duty Leather Shoulder Strap for a Heavy-Duty Leather Case (KLH-75B/76B/78B/79B//92/122/123/133/148/154)	36.75
KLH-154K2	Heavy duty leather carrying case for NX-210K2/410K2/411K2 **Note:** No belt loop flap is included. Must order KLH-6SW for belt loop.	44.25
KWR-1	Water resistant bag	29.85

MICROPHONES & AUDIO ACCESSORIES		**LIST**
KMC-51M	MIL-SPEC, IP54/55 DSP Digital Noise-canceling Speaker Mic **[see note 1]** **[Intrinsically Safe Approved Accessory]** * CSA Intrinsically Safe Approved except for Group C gases	250.00
KMC-52W	MIL-SPEC, IP67 (Immersion) DSP Digital Noise-canceling Speaker Mic **[see note 1]** **Note**: Radio does not have an IP67 Immersion option; meets MIL STD810 rain standards **[Intrinsically Safe Approved Accessory]** * CSA Intrinsically Safe Approved except for Group C gases	300.00
	[note 1]: To adjust microphone settings different from factory default, download KPG-147NC configuration software and special configuration firmware from Kenwood Tools (no charge).	
KMC-47GPS	GPS Speaker Microphone **[Intrinsically Safe Approved Accessory]** * CSA Intrinsically Safe Approved except for Group C gases	290.00
KMC-40	MIL-SPEC, Speaker Mic. with Antenna Connector **[Intrinsically Safe Approved Accessory]** **Note**: 5/16" Coax cable hex wrench included (antenna is not included).	250.00
KMC-41M	MIL-SPEC, IP54/55 Noise-canceling Speaker Mic **[Intrinsically Safe Approved Accessory]**	96.50
KMC-42WM	MIL-SPEC, IP67 (Immersion) Noise-canceling Speaker Mic **[Intrinsically Safe Approved Accessory]** **Note:** Radio does not have an IP67 Immersion option; meets MIL STD810 rain standards	114.00
KEP-1	3.5mm earphone kit for KMC-25/26/41M/42WM Speaker Mics **[Intrinsically Safe Approved Accessory]**	52.50
KCT-30	2.5mm Audio Accessory Adapter for KEP-3/4 **[Intrinsically Safe Approved Accessory]**	64.00
KCT-51	Hirose 6-pin Adapter (adapts KVL/aftermarket audio acc. to portable connector) **[Intrinsically Safe Approved Accessory]**	215.00
KEP-3	30" Earphone kit w/ 2.5mm plug for KCT-30 **[Intrinsically Safe Approved Accessory]**	51.50
KEP-4	48" Earphone kit w/ 2.5mm plug for KCT-30 **[Intrinsically Safe Approved Accessory]**	54.75
KHS-11BE	2-wire palm mic w/earphone, universal connector (Beige) **[Intrinsically Safe Approved Accessory]**	156.50
KHS-11BL	2-wire palm mic w/earphone, universal connector (Black) **[Intrinsically Safe Approved Accessory]**	156.50
KHS-12BE	3-wire mini lapel mic w/earphone, universal connector (Beige) **[Intrinsically Safe Approved Accessory]**	184.00
KHS-12BL	3-wire mini lapel mic w/earphone, universal connector (Black) **[Intrinsically Safe Approved Accessory]**	184.00
KHS-14	Lt. Wt. Single muff headset w/boom mic & In-line PTT **[Intrinsically Safe Approved Accessory]**	126.00
KHS-15-BH	Hvy-duty noise reduction behind-the-headset w/noise cancelling boom mic & in-line PTT **[Intrinsically Safe Approved Accessory]**	420.00
KHS-15-OH	Hvy-duty noise reduction over-the-headset w/noise cancelling boom mic & in-line PTT **[Intrinsically Safe Approved Accessory]**	368.00

SOFTWARE OPTIONS		**LIST**
KPG-150AP	NEXEDGE OTAP Manager Windows Software. • License Includes 10 radios / 1 Serial Port* • To add more radios/serial ports, you must contact Kenwood Systems Division [1-800-TRUNKING]	550.00
KPG-151AE	AES/DES Encryption Software Key Loader for KWD-DE21K/KWD-AE21K **Note**: KPG-151AE is a U.S. DOC/BIS Export Controlled Item (ECCN 5D002A) **- See IMPORTANT NOTES -**	525.00

OPTION MODULES		*LIST*
KCT-48VU	External Vibration Unit **[Intrinsically Safe Approved Accessory]** **Note:** Audio accessories cannot be used when this option installed.	49.00
KCT-57MS	Man-Down Internal Tilt Switch (Non-Mercury) **[Intrinsically Safe Approved Accessory]**- Must be Kenwood installed for I.S.	22.00
KWD-AE20K	AES FIPS140-2 & DES Encryption Module for TK-5*10/5*20 & NX-*00/*10 Portables & Mobiles (except K7 Portable) **[Intrinsically Safe Approved]** - Order a Labor Code **L-1723** if installation is required. KWD-AE20K requires: a Motorola KVL3000 Plus key loader device. KWD-AE20K is an U.S. DOC/BIS Export Controlled Item (ECCN 5A002A.1) **- See IMPORTANT NOTES -**	998.00
KWD-AE21K	AES & DES Encryption Module for TK-5*10/5*20 & NX-*00/*10 Portables & Mobiles (except K7 Portable) **[Intrinsically Safe Approved]** - Order a Labor Code (**L-1724**) if installation is required. **Note**: Requires KPG-151AE software key loader or Motorola KVL3000 Plus key loader device. KWD-AE21K is an U.S. DOC/BIS Export Controlled Item (ECCN 5A002A.1) **- See IMPORTANT NOTES -**	998.00
KWD-DE21K	DES Encryption Module for TK-5*10/5*20 & NX-*00/*10 Portables & Mobiles **[Intrinsically Safe Approved]** - Order a Labor Code (**L-1725)** if installation is required **Note**: Requires KPG-151AE software key loader or Motorola KVL3000 Plus key loader device. KWD-DE21K is a U.S. DOC/BIS Export Controlled Item (ECCN 5A992A) **- See IMPORTANT NOTES -**	578.00
VGS-1	Voice Guide and Storage Unit **[Intrinsically Safe Approved Accessory]**	87.50

SERVICE RELATED ACCESSORIES		*LIST*
KPG-111DNK	Windows® Programming Software for NX-200/210/300/410/411/700/800/900/901 (Compliant with FCC Part 90 Narrowbanding)	103.25
KPG-36UM	USB Programming interface cable	158.50

INSTALLATION / TUNING CHARGES		*LIST*
L-961	Assemble KMB-23 with six KSC-32K's (Rapid Rate, 120 Volt version only)	17.00
L-1633	NX-210 Programming (with basic TX/RX check)	37.50
L-1667	Install VGS-1 Voice Guide & Storage Unit in NX-210	25.00
L-1671	NX-210/410/411 Portable KCT-57MS Installation (for NXDN® / FleetSync®)	20.00
L-1723	Install KWD-AE20K in NX-210/410/411 Portables (Must purchase module separately)	75.00
L-1724	Install KWD-AE21K in NX-210/410/411 Portables (Must purchase module separately)	75.00
L-1725	Install KWD-DE21K in NX-210/410/411 Portables (Must purchase module separately)	75.00
L-1750	Configure NX-210/410/411 for Intrinsically Safe **Must order an I.S. battery, KNB-41NC-CSA-US**	70.00

-- IMPORTANT NOTES --
Encryption modules, key loaders and radios containing encryption are export controlled by the U.S. Department of Commerce Bureau of Industry & Security EAR regulations and may either require an Export License, are eligible for a License Exception (ENC) or are exportable with No License Required (NLR) depending on the country, the consignee and the intended use. High level encryption is a special commodity that may require an export license to most countries. See www.bis.gov for more information regarding export regulations. DO NOT SHIP encryption items outside the U.S. without proper DOC/BIS Export Licenses and/or compliances.

Kenwood may request the following information to be submitted at time of order (this information must meet Kenwood internal approvals prior to shipment even if being returned to Kenwood later:

a) Initial Destination: Initial delivery point if different from Ultimate Destination
(customer distribution center, headquarters, dealership, manufacturer's representative)
* Business/Agency Name:
* Address:
* Contact Person Name:
* Contact Phone:
b) Ultimate Destination: Final delivery point(s); deployment/distribution
* Business/Agency Name:
* Address:
* Contact Person Name:
* Contact Phone:
c) Intended Use of Radios: Law enforcement, security, operations, etc.

KWD-AE20 AES FIPS140-2 SCM , NIST Validation & Customer Shipping
A secure delivery method direct to the end user customer is required by the NIST AES FIPS 140-2 validation rules. For U.S. Federal Government entities the SCM must ship from Kenwood USA Corporation directly to the end user customer by a trusted carrier (FEDEX, UPS or a designated Kenwood USA Corporation employee); shipping/handling by a dealer or other entity is not acceptable. This may or may not be required by local/state government agencies or business/industrial users. Please check with the end use customer about their AES encryption handling requirements before ordering. Kenwood will not be responsible for shipments of KWD-AE20K modules to erroneous destinations specified on an order.

NX-210GK

NEXEDGE® VHF Digital & FM Analog Portable Radio

210G series portable include:
• Belt Clip (KBH-11)
• Universal Connector Cap
• Instruction Manual
• Premium Warranty: 3 Years*

* All Accessories / options: 1 Year

Order packages to include Battery, Charger & Antenna, or purchase Battery, Charger, and Antenna separately.

GENERAL FEATURES
• 5 W (136-174 MHz) Model
• 512 CH-GID / 128 Zones
• 12-Key Keypad Model
• 14 Character Alphanumeric Aliases
• Backlit Dot Matrix LCD
• Function/Status LCD Icons
• Multi-Language Display
• Date & 12/24 Hour Time Clock
• Transmit/Busy/Call Alert/Warn LED
• On/Off Volume Knob
• 6 Front PF & Menu Keys
• 2 Side PF Keys
• Emergency/AUX Key
• 500 mW Speaker Audio
• Built-In GPS Unit
• KPG-111D Windows® FPU
• Flash Firmware Upgrading
• MIL-STD-810 C/D/E/F/G
• MIL-STD "Driven-Rain"
• IP54/55 Water & Dust Intrusion
• PC Serial Interface
• SDM Manual Input
• Transparent Data Mode
• VGS-1 Voice Guide/Voice & GPS Data Storage Option*

DIGITAL – GENERAL
• NXDN® Digital Air Interface
• AMBE+2™ VOCODER
• 6.25 & 12.5 kHz Channels
• Over-the-Air Alias
• Over-the-Air Programming
• Paging Call
• Emergency Call
• All Group Call
• Status Messaging
• Remote Stun/Kill
• Remote Check
• Short & Long Data Messages
• GPS Location with Voice
• NXDN® Scrambler Included
• DES Encryption Module Option*
• AES & DES Encryption Module Option*
• AES/DES Software Key Loader Option

DIGITAL – CONVENTIONAL MODE
• 64 Radio Access Numbers (RAN)
• Individual & Group Selective Call
• Mixed FM/Digital Operation
• Conventional IP Networks
• Site Roaming

DIGITAL – TRUNKING MODE
• Individual Private Call
• Group Call & Broadcast Call
• Telephone Interconnect
• Transmission Trunked Mode
• Message Trunked Mode
• Call Queuing with Priority
• Late Entry (UID & GID)
• 4 Priority Monitor ID's
• Remote Group Add
• Failsoft Mode

MULTI-SITE IP NETWORKS COMPATIBLE
• 60,000 GIDs / UIDs
• Wide Area Group Call
• Auto Roaming Registration
• Group Registration

SCAN
• Single Zone / Multi-Zone / List Scan
• Dual Priority Scan (Conventional)

ANALOG MODE – GENERAL
• 25 & 12.5 kHz Channels
• Conventional & LTR® Zones
• FleetSync®/II, MDC-1200, DTMF
• QT / DQT & Two-Tone (Conventional Zones Only)
• Voice Inversion Scrambler
• Analog Scrambler Board Capability

FleetSync®/II (FM)
• PTT ID ANI / Caller ID
• Selective / Group Call
• Emergency Status / Text Messages

MDC-1200
• PTT ID ANI / Caller ID
• Emergency / Radio Check & Inhibit

* Must remove GPS module to utilize these options

PACKAGE		LIST
NX-210GK2-LKP	136-174MHz 5W, 14 characters Alphanumeric LCD, 6 Control Keys, Full Keypad VHF Li-Ion Battery Package (NX-210K2 + KNB-33L + KSC-32 + KBH-11 + KRA-26M)	923.00

RADIO		LIST
NX-210GK2	136-174MHz 5W, 14 characters Alphanumeric LCD, 6 Control Keys, Full Keypad	734.00

ANTENNAS		*LIST*
KRA-43GM	VHF helical antenna 146-162 MHz (w/GPS)	17.40
KRA-43GM2	VHF helical antenna 162-174 MHz (w/GPS)	17.40
KRA-43GM3	VHF helical antenna 136-150 MHz (w/GPS)	17.40
KRA-26M	VHF helical antenna 146-162 MHz	14.00
KRA-26M2	VHF helical antenna 162-174 MHz	14.00
KRA-26M3	VHF helical antenna 136-150 MHz	14.00
KRA-22M	VHF low-profile helical antenna 148-162 MHz	13.70
KRA-22M2	VHF low-profile helical antenna 162-174 MHz	13.70
KRA-22M3	VHF Low-profile helical antenna 136-150 MHz	13.70
KRA-25	High gain VHF helically loaded whip antenna 148-162 MHz	34.25
KRA-28	Broad-band VHF helically loaded whip antenna 140-170 MHz	42.00

BATTERIES AND CHARGERS		*LIST*
KNB-54N	2500 mAh, Ni-MH battery - requires KSC-32/326K charger	87.50
KNB-33L	2000 mAh, Li-ion battery - requires KSC-32/326K charger	105.00
KNB-43L	3300 mAh, Li-Polymer battery - requires KSC-32/326K charger	163.00
KNB-49PL	4500 mAh, Primary Lithium battery **Note**: **Non-Rechargeable** (please recycle all batteries properly) 10 year Shelf Life (approx. 1% charge degradation per year when properly stored: +50 °F to +86 °F @ less than 70% humidity	84.00
KBP-6	AA Alkaline Refillable Battery Pack (6 AA; 9V) cells not included **Note:** the color of the case is orange	68.50
KSC-32	Rapid rate single unit charger for KNB-31A/32N/33L/41NC/43L/47L/48L/50NC **Note:** Includes 110/220V auto-switching AC adapter with U.S.-style line cord plug; requires plug adapter for 220V Euro-style outlets (not supplied).	70.00
KSC-326K	Rapid rate 6-unit charger for KNB-31A/32N/33L/41NC/43L/47L/48L/50NC	630.00
KMB-30M	Wall Mount Bracket for KSC-326K/256K	33.75
KMB-23	Six Unit Charger Adapter for the KSC-16/20/24/25/25L/32 chargers (chargers not included)	191.00
KVC-15	Rapid rate DC vehicular charger adapter for the KSC-32 (chargers not included; includes KSC-mobile bracket & cigarette lighter cable DC adapter)	119.00
KVC-18	Vehicular D.C. Charger for 180/5*10 Portables with NiCd or NiMH Battery	446.50
KVC-20L	Vehicular D.C. Charger for 180/5**0/, NX Portables with Li-ion or Li Polymer Battery	497.00

CARRYING ACCESSORIES		*LIST*
KBH-10	Low profile spring action belt clip (for use with KNB-33L Only)	8.35
KBH-11	Spring action belt clip (2.5")	14.70
KBH-8DS	Leather swivel belt loop with portable D-Ring attachment	26.30
KLH-6SW	Leather swivel belt loop / detachable swivel D-Ring back	22.00
KLH-137ST	Firemen's Heavy-Duty Leather Shoulder Strap for a Heavy-Duty Leather Case (KLH-75B/76B/78B/79B//92/122/123/133/148/154)	36.75
KLH-154K2	Heavy duty leather carrying case for NX-210K2/410K2/411K2 **Note:** No belt loop flap is included. Must order KLH-6SW for belt loop.	44.25
KWR-1	Water resistant bag	29.85

MICROPHONES & AUDIO ACCESSORIES — *LIST*

Model	Description	LIST
KMC-51M	MIL-SPEC, IP54/55 DSP Digital Noise-canceling Speaker Mic **[see note 1]**	250.00
KMC-52W	MIL-SPEC, IP67 (Immersion) DSP Digital Noise-canceling Speaker Mic **[see note 1]** **Note**: Radio does not have an IP67 Immersion option; meets MIL STD810 rain standards	300.00
	[note 1]: To adjust microphone settings different from factory default, download KPG-147NC configuration software and special configuration firmware from Kenwood Tools (no charge).	
KMC-41M	MIL-SPEC, IP54/55 Noise-canceling Speaker Mic	96.50
KMC-42WM	MIL-SPEC, IP67 (Immersion) Noise-canceling Speaker Mic **Note:** Radio does not have an IP67 Immersion option; meets MIL STD810 rain standards	114.00
KEP-1	3.5mm earphone kit for KMC-25/26/41M/42WM Speaker Mics	52.50
KCT-30	2.5mm Audio Accessory Adapter for KEP-3/4	64.00
KCT-51	Hirose 6-pin Adapter (adapts KVL/aftermarket audio acc. to portable connector)	215.00
KEP-3	30" Earphone kit w/ 2.5mm plug for KCT-30	51.50
KEP-4	48" Earphone kit w/ 2.5mm plug for KCT-30	54.75
KHS-11BE	2-wire palm mic w/earphone, universal connector (Beige)	156.50
KHS-11BL	2-wire palm mic w/earphone, universal connector (Black)	156.50
KHS-12BE	3-wire mini lapel mic w/earphone, universal connector (Beige)	184.00
KHS-12BL	3-wire mini lapel mic w/earphone, universal connector (Black)	184.00
KHS-14	Lt. Wt. Single muff headset w/boom mic & In-line PTT	126.00
KHS-15-BH	Hvy-duty noise reduction behind-the-headset w/noise cancelling boom mic & in-line PTT	420.00
KHS-15-OH	Hvy-duty noise reduction over-the-headset w/noise cancelling boom mic & in-line PTT	368.00

SOFTWARE OPTIONS — *LIST*

Model	Description	LIST
KPG-150AP	NEXEDGE OTAP Manager Windows Software. • License Includes 10 radios / 1 Serial Port* • To add more radios/serial ports, you must contact Kenwood Systems Division [1-800-TRUNKING]	550.00
KPG-151AE	AES/DES Encryption Software Key Loader for KWD-DE21K/KWD-AE21K **Note**: KPG-151AE is a U.S. DOC/BIS Export Controlled Item (ECCN 5D002A) **- See IMPORTANT NOTES -**	525.00

OPTION MODULES — *LIST*

Model	Description	LIST
KCT-48VU	External Vibration Unit **Note:** Audio accessories cannot be used when this option installed.	49.00
KCT-57MS	Man-Down Internal Tilt Switch (Non-Mercury)	22.00
KWD-AE20K	AES FIPS140-2 & DES Encryption Module for TK-5*10/5*20 & NX-*00/*10 Portables & Mobiles (except K7 Portable) KWD-AE20K requires: a Motorola KVL3000 Plus key loader device. KWD-AE20K is an U.S. DOC/BIS Export Controlled Item (ECCN 5A002A.1) **- See IMPORTANT NOTES -**	998.00
KWD-AE21K	AES & DES Encryption Module for TK-5*10/5*20 & NX-*00/*10 Portables & Mobiles (except K7 Portable) **Note**: Requires KPG-151AE software key loader or Motorola KVL3000 Plus key loader device. KWD-AE21K is an U.S. DOC/BIS Export Controlled Item (ECCN 5A002A.1) **- See IMPORTANT NOTES -**	998.00
KWD-DE21K	DES Encryption Module for TK-5*10/5*20 & NX-*00/*10 Portables & Mobiles **Note**: Requires KPG-151AE software key loader or Motorola KVL3000 Plus key loader device. KWD-DE21K is a U.S. DOC/BIS Export Controlled Item (ECCN 5A992A) **- See IMPORTANT NOTES -**	578.00
VGS-1	Voice Guide and Storage Unit	87.50

SERVICE RELATED ACCESSORIES		**LIST**
KPG-111DNK	Windows® Programming Software for NX-200/210/300/410/411/700/800/900/901	103.25
	Note: Version 4.40 is required to program "G" models	
KPG-36UM	USB Programming interface cable	158.50

INSTALLATION / TUNING CHARGES		**LIST**
L-961	Assemble KMB-23 with six KSC-32K's (Rapid Rate, 120 Volt version only)	17.00
L-1633	NX-210 Programming (with basic TX/RX check)	37.50
L-1667	Install VGS-1 Voice Guide & Storage Unit in NX-210	25.00
L-1671	NX-210/410/411 Portable KCT-57MS Installation (for NXDN® / FleetSync®)	20.00
L-1723	Install KWD-AE20K in NX-210/410/411 Portables	75.00
	(Must purchase module separately)	
L-1724	Install KWD-AE21K in NX-210/410/411 Portables	75.00
	(Must purchase module separately)	
L-1725	Install KWD-DE21K in NX-210/410/411 Portables	75.00
	(Must purchase module separately)	

-- IMPORTANT NOTES --

Encryption modules, key loaders and radios containing encryption are export controlled by the U.S. Department of Commerce Bureau of Industry & Security EAR regulations and may either require an Export License, are eligible for a License Exception (ENC) or are exportable with No License Required (NLR) depending on the country, the consignee and the intended use. High level encryption is a special commodity that may require an export license to most countries. See www.bis.gov for more information regarding export regulations. DO NOT SHIP encryption items outside the U.S. without proper DOC/BIS Export Licenses and/or compliances.

Kenwood may request the following information to be submitted at time of order (this information must meet Kenwood internal approvals prior to shipment even if being returned to Kenwood later:

a) Initial Destination: Initial delivery point if different from Ultimate Destination
(customer distribution center, headquarters, dealership, manufacturer's representative)
* Business/Agency Name:
* Address:
* Contact Person Name:
* Contact Phone:
b) Ultimate Destination: Final delivery point(s); deployment/distribution
* Business/Agency Name:
* Address:
* Contact Person Name:
* Contact Phone:
c) Intended Use of Radios: Law enforcement, security, operations, etc.

KWD-AE20 AES FIPS140-2 SCM , NIST Validation & Customer Shipping
A secure delivery method direct to the end user customer is required by the NIST AES FIPS 140-2 validation rules. For U.S. Federal Government entities the SCM must ship from Kenwood USA Corporation directly to the end user customer by a trusted carrier (FEDEX, UPS or a designated Kenwood USA Corporation employee); shipping/handling by a dealer or other entity is not acceptable. This may or may not be required by local/state government agencies or business/industrial users. Please check with the end use customer about their AES encryption handling requirements before ordering. Kenwood will not be responsible for shipments of KWD-AE20K modules to erroneous destinations specified on an order.

NX-220 / 320
NEXEDGE® VHF/UHF Digital & FM Analog Portable Radios Radios

All 20 series NX portables include:
• Belt Clip (KBH-12)
• 2-PIN Connector Cap
• Instruction Manual
• Premium Warranty: 3 Years*

* All Accessories / options: 1 Year

Order packages to include Battery, Charger & Antenna, or purchase Battery, Charger, and Antenna separately.

--- Must Order **L-1732**
for Intrinsically Safe Option ---

* Approved for Classes I, II & III,
Div. 1, Groups C, D, E, F, G
and are also approved for
non-Incendive use in Classes I, II & III
Div. 2, Groups A, B, C, D, F, G
hazardous locations.

GENERAL FEATURES
• 5 W (136-174 MHz) Models
• 5 W (400-470, 450-520 MHz) Models
• 260 CH-GID / 128 Zones
• 64 CH-GID / 4 Zones (Non Display Version)
• 12-Key Keypad Models
• 8 Character Alphanumeric Aliases
• Backlit LCD & Keys
• Function/Status LCD Icons
• Transmit/Busy/Call Alert/Warn LED
• On/Off Volume Knob
• 16-Position Mechanical Selector
• 4 Front PF Keys
• 3 Side PF Keys
• Emergency/AUX Key
• Built-in Motion Sensor
• 500 mW Speaker Audio
• Zone/CH# Voice Announcement
• KMC-48GPS Speaker Mic Option
• KPG-141D Windows® FPU
• Flash Firmware Upgrading
• MIL-STD-810 C/D/E/F/G
• IP54/55 Water & Dust Intrusion
• PC Serial Interface
• SDM Manual Input
• Transparent Data Mode

DIGITAL – GENERAL
• NXDN® Digital Air Interface
• AMBE+2™ VOCODER
• 6.25 & 12.5 kHz Channels
• Over-the-Air Alias
• Over-the-Air Programming
• Paging Call
• Emergency Call
• All Group Call
• Status Messaging
• Remote Stun/Kill/Check
• Short & Long Data Messages
• GPS Location with Voice
• NXDN® Scrambler Included

DIGITAL – CONVENTIONAL MODE
• 64 Radio Access Numbers (RAN)
• Individual & Group Selective Call
• Mixed FM/Digital Operation
• Conventional IP Networks
• Site Roaming

DIGITAL – TRUNKING MODE
• Individual Private Call
• Group Call & Broadcast Call
• Telephone Interconnect
• Transmission Trunked Mode
• Message Trunked Mode
• Call Queuing with Priority
• Late Entry (UID & GID)
• 4 Priority Monitor ID's
• Remote Group Add
• Failsoft Mode

MULTI-SITE IP NETWORKS COMPATIBLE
• 60,000 GIDs / UIDs
• Wide Area Group Call
• Auto Roaming Registration
• Group Registration

MULTI-SYSTEM COMPATIBLE
• 8 Trunked Networks per radio (each in a zone)
• UID Lists for each network

SCAN
• Single Zone / Multi-Zone / List Scan
• Single Priority Scan (Conventional)

ANALOG MODES – GENERAL
• 12.5 kHz Channels
• Conventional & LTR® Zones
• FleetSync®/II, MDC-1200, DTMF
• QT/DQT/Two-Tone
 (Conventional Zones Only)
• Voice Inversion Scrambler (16 Codes)

MPT ZONES (option)
• Single-Site Trunking
• Multi-Site Network Trunking
• 8 Network Capacity
• Network Roaming / Registration

FleetSync®/II
• PTT ID ANI / Caller ID
• Selective / Group Call
• Emergency, Status & Text Messages

MDC-1200
• PTT ID ANI / Caller ID
• Emergency, Radio Check & Inhibit

Li-ion VALUE PACKAGES

			LIST
NX-220K2-SLKVP	VHF Li-ion Value Pack	(NX-220K2 + KNB-55L + KSC-25L + KRA-26M)	675.80
NX-220K2-LKVP	VHF Hi-Cap Li-ion Value Pack	(NX-220K2 + KNB-57L + KSC-25L + KRA-26M)	713.80
NX-320K2-SLKVP	UHF Li-ion Value Pack	(NX-320K2 + KNB-55L + KSC-25L + KRA-27M)	675.80
NX-320K2-LKVP	UHF Hi-Cap Li-ion Value Pack	(NX-320K2 + KNB-57L + KSC-25L + KRA-27M)	713.80

PACKAGES

			LIST
NX-220K2-NKP	VHF Basic Package	(NX-220K2 + KNB-56N + KSC-30 + KRA-26M)	664.00
NX-220K2-SLKP	VHF Standard Slim Package	(NX-220K2 + KNB-55L + KSC-25 + KRA-26M)	689.50
NX-220K2-LKP	VHF Premium Package	(NX-220K2 + KNB-57L + KSC-25 + KRA-26M)	727.50
NX-320K2-NKP	UHF Basic Package	(NX-320K2 + KNB-56N + KSC-30 + KRA-27M)	664.00
NX-320K2-SLKP	UHF Standard Slim Package	(NX-320K2 + KNB-55L + KSC-25 + KRA-27M)	689.50
NX-320K2-LKP	UHF Premium Package	(NX-320K2 + KNB-57L + KSC-25 + KRA-27M)	727.50

RADIO		*LIST*
NX-220K	136-174 MHz 5W, 64 CH	470.00
NX-220K2	136-174 MHz 5W, 260 CH, 8 characters Alphanumeric LCD, 4 PF Keys	553.50
NX-220K3	136-174 MHz 5W, 260 CH, 8 characters Alphanumeric LCD, 4 PF Keys, Full Keypad	603.50
NX-320K	450-520 MHz 5W, 64 CH	470.00
NX-320K2	450-520 MHz 5W, 260 CH, 8 characters Alphanumeric LCD, 4 PF Keys	553.50
NX-320K3	450-520 MHz 5W, 260 CH, 8 characters Alphanumeric LCD, 4 PF Keys, Full Keypad	603.50
NX-320K4	400-470 MHz 5W, 64 CH	470.00
NX-320K5	400-470 MHz 5W, 260 CH, 8 characters Alphanumeric LCD, 4 PF Keys	553.50
NX-320K6	400-470 MHz 5W, 260 CH, 8 characters Alphanumeric LCD, 4 PF Keys, Full Keypad	603.50

SGS US I.S. APPROVED MODELS		*LIST*
	Must Order L-1732 & an Intrinsically Safe Battery per radio	
NX-220-ISK	136-174 MHz 5W, 64 CH	470.00
NX-220-ISK2	136-174 MHz 5W, 260 CH, 8 characters Alphanumeric LCD, 4 PF Keys	553.50
NX-220-ISK3	136-174 MHz 5W, 260 CH, 8 characters Alphanumeric LCD, 4 PF Keys, Full Keypad	603.50
NX-320-ISK	450-520 MHz 5W, 64 CH	470.00
NX-320-ISK2	450-520 MHz 5W, 260 CH, 8 characters Alphanumeric LCD, 4 PF Keys	553.50
NX-320-ISK3	450-520 MHz 5W, 260 CH, 8 characters Alphanumeric LCD, 4 PF Keys, Full Keypad	603.50
NX-320-ISK4	400-470 MHz 5W, 64 CH	470.00
NX-320-ISK5	400-470 MHz 5W, 260 CH, 8 characters Alphanumeric LCD, 4 PF Keys	553.50
NX-320-ISK6	400-470 MHz 5W, 260 CH, 8 characters Alphanumeric LCD, 4 PF Keys, Full Keypad	603.50

ANTENNAS		*LIST*
KRA-22M	VHF Low-profile helical antenna 148-162 MHz	13.70
KRA-22M2	VHF Low -profile helical antenna 162-174 MHz	13.70
KRA-22M3	VHF Low-profile helical antenna 136-150 MHz	13.70
KRA-23M	UHF Low-profile helical antenna 450-490 MHz	13.70
KRA-23M2	UHF Low-profile helical antenna 470-512 MHz	13.70
KRA-23M3	UHF Low-profile helical antenna 403-430 MHz	13.70
KRA-26M	VHF helical antenna 146-162 MHz	14.00
KRA-26M2	VHF helical antenna 162-174 MHz	14.00
KRA-26M3	VHF helical antenna 136-150 MHz	14.00
KRA-27M	UHF whip antenna 440-490 MHz	14.00
KRA-27M2	UHF whip antenna 470-520 MHz	14.00
KRA-27M3	UHF whip antenna 400-450 MHz	14.00

BATTERIES AND CHARGERS		*LIST*
KBP-5	AA Alkaline Refillable Battery Pack (6 AA; 9V) cells not included	49.00
KNB-40LCV	1950 mAh, Li-ion battery - requires KSC-25/25L/256K charger **[Intrinsically Safe Option]**	112.00
KNB-55L	1480 mAh, Li-ion battery - requires KSC-25/25L/256K charger	60.00
KNB-56N	1400 mAh, Ni-MH battery	65.00
KNB-57L	2000 mAh, Li-ion battery - requires KSC-25/25L/256K charger	98.00
KSC-25L	100~240 volt rapid rate single unit charger for KNB-35L/40LC(V)/55L/57L Li-ion Battery	48.30
KSC-25	110 volt Rapid rate single unit charger for KNB-25A/26N/35L/40LC(V)/55L/56N/57L	62.00
KSC-30	110 volt Regular rate single unit charger for KNB-25A/26N/56N	31.50

BATTERIES AND CHARGERS - CONT'D | | LIST

KSC-256K	Rapid rate 6-Unit charger for KNB-25A/26N/35L/40LC(V)/55L/56N/57L	630.00
KMB-30M	Wall Mount Bracket for KSC-326K/256K	33.75
KMB-16	Six Unit Charger Adapter for the KSC-16/20/24/25/25L/30 chargers (chargers not included)	173.00
KMB-23	Six Unit Charger Adapter for the KSC-16/20/24/25/25L/32 chargers (chargers not included)	191.00
KVC-3	Vehicular charger adapter for the KSC-15/17/19/25L/30 chargers (chargers not included)	63.00
KVC-4	Vehicular charger adapter for the KSC-16/18/20/24/25 chargers (chargers not included)	84.00

CARRYING ACCESSORIES | | LIST

KBH-12	Spring action belt clip	8.35
KBH-13DS	Leather swivel belt loop with portable D-Ring attachment	28.85
KLH-179K	Heavy-Duty Leather Case w/Swivel Belt Loop for NX-220K/320K/K4 (Non Display)	49.00
KLH-179K2	Heavy-Duty Leather Case w/Swivel Belt Loop for NX-220K2/320K2/K5 (Display)	49.00
KLH-179K3	Heavy-Duty Leather Case w/Swivel Belt Loop for NX-220K3/320K3/K6 (Full Keypad)	49.00
KLH-180K	Nylon carrying case for NX-220K/320K/K4 (Non Display)	26.30
KLH-180K2	Nylon carrying case for NX-220K2/320K2/K5 (Display)	26.30
KLH-180K3	Nylon carrying case for NX-220K3/320K3/K6 (Full Keypad)	26.30
KWR-1	Water resistant bag	29.85

MICROPHONES & AUDIO ACCESSORIES | | LIST

KMC-48GPS	GPS Speaker Microphone **[Intrinsically Safe Approval Accessory]**	265.00
KMC-45	MIL-SPEC, IP54/55 Speaker microphone (Built-in 2.5mm miniature earphone jack) **[Intrinsically Safe Approval Accessory]**	86.00
KMC-21	Compact speaker microphone **[Intrinsically Safe Approval Accessory]**	51.50
KEP-2	2.5mm earphone kit for KMC-17/45 Speaker Mic **[Intrinsically Safe Approval Accessory]**	52.50
KHS-7	Single muff headset w/boom mic **[Intrinsically Safe Approval Accessory]**	70.00
KHS-7A	Lt. Wt Single muff headset w/boom mic & in-line PTT **[Intrinsically Safe Approval Accessory]**	105.00
KHS-8BL	Two-Wire palm mic w/earphone (black)	103.25
KHS-9BL	Three-Wire lapel mic w/earphone (black)	166.00
KHS-10-BH	Hvy-duty noise reduction behind-the-headset w/noise cancelling boom mic & in-line PTT **[Intrinsically Safe Approval Accessory]**	368.00
KHS-10-OH	Hvy-duty noise reduction over-the-headset w/noise cancelling boom mic & in-line PTT **[Intrinsically Safe Approval Accessory]**	336.00
KHS-22	Behind-the-Head Headset with flexible boom mic and in-line PTT single ear receiver (low profile wire head band)	41.00
KHS-23	2-Wire Cell-style Earbud Clip/PTT Palm Mic (medium duty)	55.50
KHS-25	Headset w/ D-Ring Ear Hanger w/ PTT & Boom Mic	24.50
KHS-26	Clip Mic w/earphone	28.00
KHS-27	D-Ring Ear Hanger w/PTT & Mic	24.50
KHS-31	C-Ring Ear Hanger w/PTT & Mic	30.00

SOFTWARE OPTIONS | | LIST

KPG-150AP	NEXEDGE OTAP Manager Windows Software. • License Includes 10 radios / 1 Serial Port* • To add more radios/serial ports, you must contact Kenwood Systems Division [1-800-TRUNKING]	550.00
KWD-MS10	Stationary & Motion Detection Must Order **L-1700** to activate this feature.	60.00

SERVICE RELATED ACCESSORIES		*LIST*
KPG-141DNK	Windows® Programming Software for NX-220/320 (Compliant with FCC Part 90 Narrowbanding)	103.25
KPG-22UM	USB Programming interface cable	158.50

INSTALLATION / TUNING CHARGES		*LIST*
L-836	Assemble KMB-16 with six KSC-25/25L	15.00
L-961	Assemble KMB-23 with six KSC-24/25/25L/32 (Rapid Rate, 120 Volt versions only)	17.00
L-1699	NX-220/320 Programming (with basic TX/RX check)	37.50
L-1700	NX-220/320 KWD-MS10 Activation	N/C
L-1732	Configure NX-220/320 for Intrinsically Safe **Must Order an I.S. Battery**	70.00

MPT FIRMWARE/ACCESSORIES/TUNING		*LIST*
KPG-143DNK	Windows® Programming Software for NX series MPT (Compliant with FCC Part 90 Narrowbanding) (Dealer Level License ID included) **Note**: Must order **L-1727** for Network Level License ID & programming privileges	103.25
KWD-NX10MPT	MPT Trunking Field Upgrade Kit for NX series radio Must order **L-1729** **Note:** Not compatible with any other firmware options. Radio does not retain LTR trunking features once the MPT option is installed.	66.70
L-1726	Install MPT option in NX series radio	25.00
L-1727	Network Level License ID for KPG-143D(N) NX series Programmer	158.33
L-1728	Retrofit Install of MPT option in NX seires radio For previously purchased NX series radios. Order L-1728 through LMR order desk/rep. Ship radios to attn: Kenwood LMR Tuning, Long Beach for installation. Include Kenwood order number for L-1728 provided by order desk & copy of company P.O. or P.O. number. **Note:** see NX series MPT Introduction Sales Bulletin for details	85.00
L-1729	NX Series Radio MPT Firmware FIELD-UPGRADE (Must purchase KWD-NX10MPT separately)	NC
L-1730	Install KCT-57MS (for MPT Emergency Call)	20.00

-- IMPORTANT NOTES --

Encryption modules, key loaders and radios containing encryption are export controlled by the U.S. Department of Commerce Bureau of Industry & Security EAR regulations and may either require an Export License, are eligible for a License Exception (ENC) or are exportable with No License Required (NLR) depending on the country, the consignee and the intended use. High level encryption is a special commodity that may require an export license to most countries. See www.bis.gov for more information regarding export regulations. DO NOT SHIP encryption items outside the U.S. without proper DOC/BIS Export Licenses and/or compliances.

Kenwood may request the following information to be submitted at time of order (this information must meet Kenwood internal approvals prior to shipment even if being returned to Kenwood later:

a) Initial Destination: Initial delivery point if different from Ultimate Destination
(customer distribution center, headquarters, dealership, manufacturer's representative)
* Business/Agency Name:
* Address:
* Contact Person Name:
* Contact Phone:
b) Ultimate Destination: Final delivery point(s); deployment/distribution
* Business/Agency Name:
* Address:
* Contact Person Name:
* Contact Phone:
c) Intended Use of Radios: Law enforcement, security, operations, etc.

KWD-AE20 AES FIPS140-2 SCM , NIST Validation & Customer Shipping
A secure delivery method direct to the end user customer is required by the NIST AES FIPS 140-2 validation rules. For U.S. Federal Government entities the SCM must ship from Kenwood USA Corporation directly to the end user customer by a trusted carrier (FEDEX, UPS or a designated Kenwood USA Corporation employee); shipping/handling by a dealer or other entity is not acceptable. This may or may not be required by local/state government agencies or business/industrial users. Please check with the end use customer about their AES encryption handling requirements before ordering. Kenwood will not be responsible for shipments of KWD-AE20K modules to erroneous destinations specified on an order.

NX-240VK / 340UK

Table of Contents

NEXEDGE® VHF/UHF Digital & FM Analog Portable Radios

All 40 series NX portables include:
• Li-ion Battery (KNB-45L)
• Fast Charger (KSC-35SK)
• Antenna [KRA-26M(VHF)/27M(UHF)]
• Belt Clip (KBH-10)
• 2-PIN Connector Cap
• Instruction Manual
• Premium Warranty: 3 Years*

* All Accessories / options: 1 Year

GENERAL FEATURES
• 5 W (136-174 MHz) VHF
• 5 W (450-520, 400-470 MHz) UHF
• Max. 16 CH per Zone
• 2 Conventional Zones
• Transmit / Busy / Call Alert / Scan / Warn LED
• 4-Color LED (Blue/Red/Green/Orange)
• On/Off Volume Knob
• 2 PF Keys
• 1.0 W Speaker Audio
• 16-Position Mechanical Selector
• Zone / CH# Voice Announcement
• KMC-48GPS Speaker Mic Option
• VOX Ready
• Emergency Call Features
• Lone Worker Alert (per CH)
• Time Out Timer
• Busy Channel Lockout
• Low Battery Warning
• Battery Saver
• KPG-170DB Windows FPU
• Wireless Cloning
• Password Protected
• MIL-STD-810 C/D/E/F/G
• IP-54/55 Water & Dust Intrusion

GENERAL FEATURES
• NXDN® Digital Air Interface
• AMBE+2™VOCODER
• 6.25 kHz Channels
• Over-the-Air Alias (TX Only)
• Paging Call
• Emergency Call
• All Group Call
• Status Messaging
• Remote Stun/Kill
• Remote Check
• GPS Location with Voice

DIGITAL – CONVENTIONAL MODE
• 64 Radio Access Numbers (RAN)
• Individual & Group Selective Call
• Site Roaming

SCAN
• Single Zone Scan
• Single Priority Scan (Conventional)

ANALOG MODES – GENERAL
• 12.5 kHz Channels
• Conventional Zones
• FleetSync®/II, MDC-1200, DTMF
• QT/DQT/Two-Tone (Conv. Zones Only)
• Voice Inversion Scrambler (16 Codes)

FleetSync®/II
• PTT ID ANI
• Selective / Group Call
• Paging Call
• Emergency Status
• Send GPS Data

MDC-1200
• PTT ID ANI / Caller ID
• Emergency, Radio Check & Inhibit

RADIO		LIST
NX-240VK	136-174 MHz VHF 5W, 16 Ch / 2 Zones	392.00
NX-340UK	450-520 MHz UHF 5W, 16 Ch / 2 Zones	409.00
NX-340UK2	400-470 MHz UHF 5W, 16 Ch / 2 Zones	409.00

ANTENNAS		LIST
KRA-26M	VHF helical antenna 146-162 MHz	14.00
KRA-26M2	VHF helical antenna 162-174 MHz	14.00
KRA-26M3	VHF helical antenna 136-150 MHz	14.00
KRA-27M	UHF whip antenna 440-490 MHz	14.00
KRA-27M2	UHF whip antenna 470-520 MHz	14.00
KRA-27M3	UHF whip antenna 403-430 MHz	14.00
KRA-41M	VHF stubby antenna 148-162 MHz	13.70
KRA-41M2	VHF stubby antenna 162-174 MHz	13.70
KRA-41M3	VHF stubby antenna 136-150 MHz	13.70
KRA-42M	UHF stubby antenna 440-490 MHz	13.70
KRA-42M2	UHF stubby antenna 470-520 MHz	13.70
KRA-42M3	UHF stubby antenna 403-430 MHz	13.70
KRA-22M	VHF low profile antenna 148-162 MHz	13.70
KRA-22M2	VHF low profile antenna 162-174 MHz	13.70

ANTENNAS - CONT'D		**LIST**
KRA-22M3	VHF Low-profile helical antenna 136-150 MHz	13.70
KRA-23M	UHF low profile antenna 450-490 MHz	13.70
KRA-23M2	UHF low profile antenna 470-520 MHz	13.70
KRA-23M3	UHF low profile antenna 403-430 MHz	13.70

BATTERIES AND CHARGERS		**LIST**
KMB-28	Six Unit Charger Adapter for the KSC-23BK/28/35SK chargers (chargers not included) **Note:** The six KSC-xx AC wall Adapters are NOT used in the KMB-28 installation A supplied in-line AC-DC switching power supply with six DC plugs supply the six installed KSC-xx charger bases. This unit is lower profile and less weight than similar Kenwood six unit charger adapters. Dimensions: 10.6(W) x 2.4(H) x 9.5(D) inches, Weight: approx. 10 lbs. (loaded with chargers/radios)	208.50
KNB-45L	2000 mAh, Li-ion battery - requires KSC-35K/SK charger	63.00
KNB-69L	2550 mAh, Li-ion battery - requires KSC-35K/SK charger	75.00
KNB-29N	1500 mAh, NiMH battery - requires KSC-43K charger	36.75
KSC-35SK	110~220 volt Fast rate single unit charger for KNB-45L/69L	31.50
KSC-43K	110~220 volt Fast rate single unit charger for KNB-29N/45L/69L	36.70
KVC-22	110~220 volt Fast rate DC vehicular charger adapter for KSC-35SK charger & KNB-45L Li-ion battery (charger not included)	36.70

CARRYING ACCESSORIES		**LIST**
KBH-10	Spring action belt clip	8.35
KBH-8DS	Leather swivel belt loop with portable D-Ring attachment	26.30
KLH-6SW	Leather swivel belt loop / detachable swivel D-Ring back	22.00
KLH-187	Nylon case for TK-*200/*202/*300/*302/*400/*402 Series	14.70

MICROPHONES & AUDIO ACCESSORIES		**LIST**
KMC-45	MIL-SPEC, IP54/55 Speaker microphone (Built-in 2.5mm miniature earphone jack)	86.00
KMC-48GPS	GPS Speaker Microphone	265.00
KEP-2	2.5mm earphone kit for KMC-17/45 Speaker Mic	52.50
KMC-21	Compact speaker microphone	51.50
KEP-2	2.5mm earphone kit for KMC-17/45 Speaker Mic	52.50
KHS-10-BH	Hvy-duty noise reduction behind-the-headset w/noise cancelling boom mic & in-line PTT	368.00
KHS-10-OH	Hvy-duty noise reduction over-the-headset w/noise cancelling boom mic & in-line PTT	336.00
KHS-7	Single muff headset w/boom mic	70.00
KHS-7A	Lt. Wt Single muff headset w/boom mic & in-line PTT	105.00
KHS-8BL	Two-Wire palm mic w/earphone (black)	103.25
KHS-9BL	Three-Wire lapel mic w/earphone (black)	166.00
KHS-22	Behind-the-Head Headset with flexible boom mic and in-line PTT single ear receiver (low profile wire head band)	41.00
KHS-23	2-Wire Cell-style Earbud Clip/PTT Palm Mic (medium duty)	55.50
KHS-25	Headset w/ D-Ring Ear Hanger w/ PTT & Boom Mic	24.50
KHS-26	Clip Mic w/earphone	28.00
KHS-27	D-Ring Ear Hanger w/PTT & Mic	24.50
KHS-31	C-Ring Ear Hanger w/PTT & Mic	30.00

SERVICE RELATED ACCESSORIES		**LIST**
KPG-170DK	Windows® Programming Software for NX-240V/340U (Compliant with FCC Part 90 Narrowbanding)	103.25
KPG-22UM	USB Programming interface cable	158.50

INSTALLATION / TUNING CHARGES		**LIST**
L-1767	NX-240V/340U Programming (with basic TX/RX check)	37.50

NX-410/411

NEXEDGE® 800/900 MHz Digital & FM Analog Portable Radio

410 portable includes:
• Belt Clip (KBH-11)
• Universal Connector Cap
• Instruction Manual
• Premium Warranty: 3 Years*

* All Accessories / options: 1 Year

Order packages to include Battery, Charger & Antenna, or purchase Battery, Charger, and Antenna separately.

* Approved by CSA International Inc. for Classes I, II & III, Div. 1, Groups C, D, E, F, G and are also approved for non-Incendive use in Class I, Div. 2, Groups A, B, C, D hazardous locations.
Note: Class I, Div 2 Group A & B Gases require use of a portable carrying case.

GENERAL FEATURES
• 3.0 W (806-870 MHz) Model
• 2.5 W (896-941 MHz) Model
• 512 CH-GID / 128 Zones
• 12-Key Keypad
• 14 Character Alphanumeric Aliases
• Backlit Dot Matrix LCD
• Function/Status LCD Icons
• Multi-Language Display
• Date & 12/24 Hour Time Clock
• Transmit/Busy/Call Alert/Warn LED
• On/Off Volume Knob
• 6 Front PF & Menu Keys
• 2 Side PF Keys
• Emergency/AUX Key
• 500 mW Speaker Audio
• KMC-47GPS Speaker Mic Option
• KPG-111D Windows® FPU
• Flash Firmware Upgrading
• MIL-STD-810 C/D/E/F/G
• IP54/55 Water & Dust Intrusion
• PC Serial Interface
• SDM Manual Input
• Transparent Data Mode
• VGS-1 Voice Guide/Voice & GPS Data Storage Option

DIGITAL – GENERAL
• NXDN® Digital Air Interface
• AMBE+2™ VOCODER
• 6.25 & 12.5 kHz Channels
• Over-the-Air Alias
• Over-the-Air Programming
• Paging Call
• Emergency Call
• All Group Call
• Status Messaging
• Remote Stun/Kill/Check
• Short & Long Data Messages
• GPS Location with Voice
• NXDN® Scrambler Included
• DES Encryption Module Option
• AES & DES Encryption Module Option
• AES/DES Software Key Loader Option

DIGITAL – CONVENTIONAL MODE
• 64 Radio Access Numbers (RAN)
• Individual & Group Selective Call
• Mixed FM/Digital Operation
• Conventional IP Networks
• Site Roaming

DIGITAL – TRUNKING MODE
• Individual Private Call
• Group Call & Broadcast Call
• Transmission Trunked Mode
• Message Trunked Mode
• Call Queuing with Priority
• Late Entry (UID & GID)
• 4 Priority Monitor ID's
• Remote Group Add
• Failsoft Mode

MULTI-SITE IP NETWORKS COMPATIBLE
• 60,000 GIDs / UIDs
• Wide Area Group Call
• Auto Roaming Registration
• Group Registration

MULTI-SYSTEM COMPATIBLE
• 8 Trunked Networks per radio (each in a zone)
• UID Lists for each network

SCAN
• Single Zone / Multi-Zone / List Scan
• Dual Priority Scan (Conventional)

ANALOG MODES – GENERAL
• 25** & 12.5 kHz Channels
• NPSPAC Channels**
• Conventional & LTR® Zones
• FleetSync®/II, MDC-1200, DTMF
• QT / DQT (Conventional Zones Only)
• Voice Inversion Scrambler
• Analog Scrambler Board Capability

MPT ZONES (option)
• Single-Site Trunking
• Multi-Site Network Trunking
• 8 Network Capacity
• Network Roaming / Registration

FleetSync®/II
• PTT ID ANI / Caller ID
• Selective / Group Call
• Emergency, Status & Text Messages

MDC-1200
• PTT ID ANI / Caller ID
• Emergency, Radio Check & Inhibit

** 800 MHz model only.

PACKAGE		LIST
NX-410K2-LKP	806-870MHz 3W, 14 characters Alphanumeric LCD, 6 Control Keys, Full Keypad Li-Ion Battery Package (NX-410K2 + KNB-33L + KSC-32 + KBH-11 + KRA-24M)	1,061.75
NX-411K2-LKP	896-941MHz 2.5W, 14 characters Alphanumeric LCD, 6 Control Keys, Full Keypad Li-Ion Battery Package (NX-411K2 + KNB-33L + KSC-32 + KBH-11 + KRA-38K)	1,060.00

RADIO		LIST
NX-410K2	806-870MHz 3W, 14 characters Alphanumeric LCD, 6 Control Keys, Full Keypad	850.00
NX-411K2	896-941MHz 2.5W, 14 characters Alphanumeric LCD, 6 Control Keys, Full Keypad	850.00

CSA APPROVED I.S. MODEL		LIST
	Must Order L-1750 & an Intrinsically Safe Battery per radio	
NX-410-ISK2	806-870MHz 3W, 14 characters Alphanumeric LCD, 6 Control Keys, Full Key (I.S.)	850.00
NX-411-ISK2	896-941MHz 2.5W, 14 characters Alphanumeric LCD, 6 Control Keys, Full Key (I.S)	850.00

ANTENNAS		LIST
KRA-24M	800 MHz Whip Antenna 1/4 wave end feed	36.75
KRA-32K	700/800 MHz Whip Antenna	35.00
KRA-36	700/800 MHz Stubby Antenna	25.00
KRA-38K	800/900 MHz Whip Antenna	35.00
KRA-39	900 MHz Stubby Antenna	25.00

BATTERIES AND CHARGERS		LIST
KNB-54N	2500 mAh, Ni-MH battery - requires KSC-32/326K charger	87.50
KNB-33L	2000 mAh, Li-ion battery - requires KSC-32/326K charger	105.00
KNB-41NC-CSA-US	2500 mAh, Ni-MH battery - requires KSC-32/326K charger **[CSA Intrinsically Safe Option]**	136.50
KNB-43L	3300 mAh, Li-Polymer battery - requires KSC-32/326K charger	163.00
KNB-49PL	4500 mAh, Primary Lithium battery **Note**: **Non-Rechargeable** (please recycle all batteries properly) 10 year Shelf Life (approx. 1% charge degradation per year when properly stored: +50 ℉ to +86 ℉ @ less than 70% humidity	84.00
KBP-6	AA Alkaline Refillable Battery Pack (6 AA; 9V) cells not included **Note:** the color of the case is orange	68.50
KSC-32	Rapid rate single unit charger for KNB-31A/32N/33L/41NC/43L/47L/48L/50NC **Note:** Includes 110/220V auto-switching AC adapter with U.S.-style line cord plug; requires plug adapter for 220V Euro-style outlets (not supplied).	70.00
KSC-326K	Rapid rate 6-unit charger for KNB-31A/32N/33L/41NC/43L/47L/48L/50NC	630.00
KMB-30M	Wall Mount Bracket for KSC-326K/256K	33.75
KMB-23	Six Unit Charger Adapter for the KSC-16/20/24/25/25L/32 chargers (chargers not included)	191.00
KVC-15	Rapid rate DC vehicular charger adapter for the KSC-32 (chargers not included; includes KSC-mobile bracket & cigarette lighter cable DC adapter)	119.00
KVC-18	Vehicular D.C. Charger for 180/5*10/ NX-*10 Portables with NiCd or NiMH Battery	446.50
KVC-20L	Vehicular D.C. Charger for 180/5**0/ NX Portables with Li-ion or Li Polymer Battery	497.00

CARRYING ACCESSORIES		LIST
KBH-10	Low profile spring action belt clip (for use with KNB-33L Only)	8.35
KBH-11	Spring action belt clip (2.5")	14.70
KBH-8DS	Leather swivel belt loop with portable D-Ring attachment	26.30
KLH-6SW	Leather swivel belt loop / detachable swivel D-Ring back	22.00
KLH-137ST	Firemen's Heavy-Duty Leather Shoulder Strap for a Heavy-Duty Leather Case (KLH-75B/76B/78B/79B//92/122/123/133/148/154)	36.75
KLH-154K2	Heavy duty leather carrying case for NX-210K2/410K2/411K2 **Note:** No belt loop flap is included. Must order KLH-6SW for belt loop.	44.25
KWR-1	Water resistant bag	29.85

MICROPHONES & AUDIO ACCESSORIES		LIST
KMC-51M	MIL-SPEC, IP54/55 DSP Digital Noise-canceling Speaker Mic **[see note 1]** **[Intrinsically Safe Approved Accessory]** * CSA Intrinsically Safe Approved except for Group C gases	250.00
KMC-52W	MIL-SPEC, IP67 (Immersion) DSP Digital Noise-canceling Speaker Mic **[see note 1]** **Note**: Radio does not have an IP67 Immersion option; meets MIL STD810 rain standards **[Intrinsically Safe Approved Accessory]** * CSA Intrinsically Safe Approved except for Group C gases **[note 1]**: To adjust microphone settings different from factory default, download KPG-147NC configuration software and special configuration firmware from Kenwood Tools (no charge).	300.00

MICROPHONES & AUDIO ACCESSORIES - CONT'D		*LIST*
KMC-47GPS	GPS Speaker Microphone **[Intrinsically Safe Approved Accessory]** * CSA Intrinsically Safe Approved except for Group C gases	290.00
KMC-40	MIL-SPEC, Speaker Mic. with Antenna Connector **[Intrinsically Safe Approved Accessory]** **Note**: 5/16" Coax cable hex wrench included (antenna is not included).	250.00
KMC-41M	MIL-SPEC, IP54/55 Noise-canceling Speaker Mic **[Intrinsically Safe Approved Accessory]**	96.50
KMC-42WM	MIL-SPEC, IP67 (Immersion) Noise-canceling Speaker Mic **[Intrinsically Safe Approved Accessory]** **Note:** Radio does not have an IP67 Immersion option; meets MIL STD810 rain standards	114.00
KEP-1	3.5mm earphone kit for KMC-25/26/41M/42WM Speaker Mics **[Intrinsically Safe Approved Accessory]**	52.50
KCT-30	2.5mm Audio Accessory Adapter for KEP-3/4 **[Intrinsically Safe Approved Accessory]**	64.00
KCT-51	Hirose 6-pin Adapter (adapts KVL/aftermarket audio acc. to portable connector) **[Intrinsically Safe Approved Accessory]**	215.00
KEP-3	30" Earphone kit w/ 2.5mm plug for KCT-30 **[Intrinsically Safe Approved Accessory]**	51.50
KEP-4	48" Earphone kit w/ 2.5mm plug for KCT-30 **[Intrinsically Safe Approved Accessory]**	54.75
KHS-11BE	2-wire palm mic w/earphone, universal connector (Beige) **[Intrinsically Safe Approved Accessory]**	156.50
KHS-11BL	2-wire palm mic w/earphone, universal connector (Black) **[Intrinsically Safe Approved Accessory]**	156.50
KHS-12BE	3-wire mini lapel mic w/earphone, universal connector (Beige) **[Intrinsically Safe Approved Accessory]**	184.00
KHS-12BL	3-wire mini lapel mic w/earphone, universal connector (Black) **[Intrinsically Safe Approved Accessory]**	184.00
KHS-14	Lt. Wt. Single muff headset w/boom mic & In-line PTT **[Intrinsically Safe Approved Accessory]**	126.00
KHS-15-BH	Hvy-duty noise reduction behind-the-headset w/noise cancelling boom mic & in-line PTT **[Intrinsically Safe Approved Accessory]**	420.00
KHS-15-OH	Hvy-duty noise reduction over-the-headset w/noise cancelling boom mic & in-line PTT **[Intrinsically Safe Approved Accessory]**	368.00

SOFTWARE OPTIONS		*LIST*
KPG-150AP	NEXEDGE OTAP Manager Windows Software. • License Includes 10 radios / 1 Serial Port* • To add more radios/serial ports, you must contact Kenwood Systems Division [1-800-TRUNKING]	550.00
KPG-151AE	AES/DES Encryption Software Key Loader for KWD-DE21K/KWD-AE21K **Note**: KPG-151AE is a U.S. DOC/BIS Export Controlled Item (ECCN 5D002A) **- See IMPORTANT NOTES -**	525.00

OPTION MODULES		*LIST*
KWD-AE20K	AES FIPS140-2 & DES Encryption Module for TK-5*10/5*20 & NX-*00/*10 Portables & Mobiles (except K7 Portable) **[Intrinsically Safe Approved]** - Order a Labor Code **L-1723** if installation is required. KWD-AE20K requires: a Motorola KVL3000 Plus key loader device. KWD-AE20K is an U.S. DOC/BIS Export Controlled Item (ECCN 5A002A.1) **- See IMPORTANT NOTES -**	998.00
KWD-AE21K	AES & DES Encryption Module for TK-5*10/5*20 & NX-*00/*10 Portables & Mobiles (except K7 Portable) **[Intrinsically Safe Approved]** - Order a Labor Code (**L-1724**) if installation is required. **Note**: Requires KPG-151AE software key loader or Motorola KVL3000 Plus key loader device. KWD-AE21K is an U.S. DOC/BIS Export Controlled Item (ECCN 5A002A.1) **- See IMPORTANT NOTES -**	998.00

OPTION MODULES - CONT'D		*LIST*
KWD-DE21K	DES Encryption Module for TK-5*10/5*20 & NX-*00/*10 Portables & Mobiles **[Intrinsically Safe Approved]** - Order a Labor Code (**L-1725)** if installation is required **Note**: Requires KPG-151AE software key loader or Motorola KVL3000 Plus key loader device. KWD-DE21K is a U.S. DOC/BIS Export Controlled Item (ECCN 5A992A) **- See IMPORTANT NOTES -**	578.00
KCT-48VU	External Vibration Unit **[Intrinsically Safe Approved Accessory]** **Note:** Audio accessories cannot be used when this option installed.	49.00
KCT-57MS	Man-Down Internal Tilt Switch (Non-Mercury) **[Intrinsically Safe Approved Accessory]**- Must be Kenwood installed for I.S.	22.00
VGS-1	Voice Guide and Storage Unit **[Intrinsically Safe Approved Accessory]**	87.50

SERVICE RELATED ACCESSORIES		*LIST*
KPG-111DNK	Windows® Programming Software for NX-200/210/300/410/411/700/800/900/901 (Compliant with FCC Part 90 Narrowbanding)	103.25
KPG-36UM	USB Programming interface cable	158.50

INSTALLATION / TUNING CHARGES		*LIST*
L-961	Assemble KMB-23 with six KSC-32K's (Rapid Rate, 120 Volt version only)	17.00
L-1667	Install VGS-1 Voice Guide & Storage Unit in NX-210/410/411	25.00
L-1671	NX-210/410/411 Portable KCT-57MS Installation (for NXDN® / FleetSync®)	20.00
L-1691	NX-410/411 Programming (with basic TX/RX check)	37.50
L-1723	Install KWD-AE20K in NX-210/410/411 Portables (Must purchase module separately)	75.00
L-1724	Install KWD-AE21K in NX-210/410/411 Portables (Must purchase module separately)	75.00
L-1725	Install KWD-DE21K in NX-210/410/411 Portables (Must purchase module separately)	75.00
L-1750	Configure NX-210/410/411 for Intrinsically Safe **Must order an I.S. battery, KNB-41NC-CSA-US**	70.00

MPT FIRMWARE/ACCESSORIES/TUNING		*LIST*
KPG-143DNK	Windows® Programming Software for NX series MPT (Compliant with FCC Part 90 Narrowbanding) (Dealer Level License ID included) **Note**: Must order **L-1727** for Network Level License ID & programming privileges	103.25
KWD-NX10MPT	MPT Trunking Field Upgrade Kit for NX series radio Must order **L-1729** **Note:** Not compatible with any other firmware options. Radio does not retain LTR trunking features once the MPT option is installed.	66.70
L-1726	Install MPT option in NX series radio	25.00
L-1727	Network Level License ID for KPG-143D(N) NX series Programmer	158.33
L-1728	Retrofit Install of MPT option in NX seires radio For previously purchased NX series radios. Order L-1728 through LMR order desk/rep. Ship radios to attn: Kenwood LMR Tuning, Long Beach for installation. Include Kenwood order number for L-1728 provided by order desk & copy of company P.O. or P.O. number. **Note:** see NX series MPT Introduction Sales Bulletin for details	85.00
L-1729	NX Series Radio MPT Firmware FIELD-UPGRADE (Must purchase KWD-NX10MPT separately)	NC
L-1730	Install KCT-57MS (for MPT Emergency Call)	20.00

-- IMPORTANT NOTES --
Encryption modules, key loaders and radios containing encryption are export controlled by the U.S. Department of Commerce Bureau of Industry & Security EAR regulations and may either require an Export License, are eligible for a License Exception (ENC) or are exportable with No License Required (NLR) depending on the country, the consignee and the intended use. High level encryption is a special commodity that may require an export license to most countries. See www.bis.gov for more information regarding export regulations. DO NOT SHIP encryption items outside the U.S. without proper DOC/BIS Export Licenses and/or compliances.

Kenwood may request the following information to be submitted at time of order (this information must meet Kenwood internal approvals prior to shipment even if being returned to Kenwood later:

a) Initial Destination: Initial delivery point if different from Ultimate Destination
(customer distribution center, headquarters, dealership, manufacturer's representative)
* Business/Agency Name:
* Address:
* Contact Person Name:
* Contact Phone:
b) Ultimate Destination: Final delivery point(s); deployment/distribution
* Business/Agency Name:
* Address:
* Contact Person Name:
* Contact Phone:
c) Intended Use of Radios: Law enforcement, security, operations, etc.

KWD-AE20 AES FIPS140-2 SCM , NIST Validation & Customer Shipping
A secure delivery method direct to the end user customer is required by the NIST AES FIPS 140-2 validation rules. For U.S. Federal Government entities the SCM must ship from Kenwood USA Corporation directly to the end user customer by a trusted carrier (FEDEX, UPS or a designated Kenwood USA Corporation employee); shipping/handling by a dealer or other entity is not acceptable. This may or may not be required by local/state government agencies or business/industrial users. Please check with the end use customer about their AES encryption handling requirements before ordering. Kenwood will not be responsible for shipments of KWD-AE20K modules to erroneous destinations specified on an order.

Table of Contents

NX- 420
NEXEDGE® 800MHz Digital & Analog Portable Radio

All 420 series NX portables include:
- Belt Clip (KBH-12)
- Antenna (KRA-38K)
- 2-PIN Connector Cap
- Instruction Manual
- Premium Warranty: 3 Years*

* All Accessories / options: 1 Year

Order packages to include Battery, & Charger, or purchase Battery, & Charger separately.

--- Must Order **L-1732**
for Intrinsically Safe Option ---

* Approved for Classes I, II & III,
Div. 1, Groups C, D, E, F, G
and are also approved for
non-Incendive use in Classes I, II & III
Div. 2, Groups A, B, C, D, F, G
hazardous locations.

GENERAL FEATURES
- 3.0 W (806 - 870 MHz)
- 260 CH-GID / 128 Zones
- 4 Front PF Keys, 12-Key Keypad
- 8 Character Alphanumeric Aliases
- Backlit LCD & Keys
- Function / Status LCD Icons
- Transmit / Busy / Call Alert / Warn LED
- On / Off Volume Knob
- 16-Position Selector
- 3 Side PF Keys
- Emergency / AUX Key
- Built-in Motion Sensor
- 500 mW Speaker Audio
- Zone / CH# Voice Announcement
- KMC-48GPS Speaker Mic Option
- KPG-141D/DN Windows® FPU
- Flash Firmware Upgrading
- MIL-STD-810 C/D/E/F/G
- IP54/55 Dust & Water Intrusion
- PC Serial Interface
- SDM Manual Input
- Transparent Data Mode

DIGITAL – GENERAL
- NXDN® Digital Air Interface
- AMBE+2™ VOCODER
- 6.25 & 12.5 kHz Channels
- Over-the-Air Alias
- Over-the-Air Programming
- Paging Call
- Emergency Call
- All Group Call
- Status Messaging
- Remote Stun / Kill/Check
- Short & Long Data Messages
- GPS Location with Voice
- NXDN® Scrambler Included

DIGITAL – CONVENTIONAL MODE
- 64 Radio Access Numbers (RAN)
- Individual & Group Selective Call
- Mixed FM / Digital Operation
- Conventional IP Networks
- Site Roaming

DIGITAL – TRUNKING MODE
- Individual Private Call
- Group Call & Broadcast Call
- Telephone Interconnect
- Transmission Trunked Mode
- Message Trunked Mode
- Call Queuing with Priority
- Late Entry (UID & GID)
- 4 Priority Monitor ID's
- Remote Re-Grouping
- Failsoft Mode

MULTI-SITE IP NETWORKS COMPATIBLE
- 60,000 GIDs / UIDs
- Wide Area Group Call
- Auto Roaming Registration
- Group Registration

MULTI-SYSTEM COMPATIBLE
- 8 Trunked Networks per radio (each in a zone)
- UID Lists for each network

SCAN
- Single Zone / Multi-Zone / List Scan
- Single Priority Scan (Conventional)

ANALOG MODES – GENERAL
- 25 & 12.5 kHz Channels
- NPSPAC Channels
- Conventional & LTR® Zones
- FleetSync® / II, MDC-1200, DTMF
- QT / DQT (Conventional Zones only)
- Voice Inversion Scrambler (16 Codes)

MPT ZONES (option)
- Single-Site Trunking
- Multi-Site Network Trunking
- 8 Network Capacity
- Network Roaming / Registration

FleetSync®/II
- PTT ID ANI / Caller ID
- Selective / Group Call
- Emergency, Status & Text Messages

MDC-1200
- PTT ID ANI / Caller ID
- Emergency, Radio Check & Inhibit

Li-ion VALUE PACKAGES		*LIST*
NX-420K3-SLKVP	Li-ion Value Pack (NX-420K3 + KNB-55L + KSC-25L)	658.30
NX-420K3-LKVP	Hi-Cap Li-ion Value Pack (NX-420K3 + KNB-57L + KSC-25L)	696.30

PACKAGES		*LIST*
NX-420K3-SLKP	Standard Slim Package (NX-420K3 + KNB-55L + KSC-25)	672.00
NX-420K3-LKP	Premium Package (NX-420K3 + KNB-57L + KSC-25)	710.00

RADIO		*LIST*
NX-420K3	806 - 870 MHz 3W, 260 CH, 8 characters Alphanumeric LCD, 4 PF Keys, Full Keypad	550.00

SGS US I.S. APPROVED MODELS		*LIST*
	Must Order L-1732 & an Intrinsically Safe Battery per radio	
NX-420-ISK3	806 - 870 MHz 3W, 260 CH, 8 characters Alphanumeric LCD, 4 PF Keys, Full Keypad	550.00

ANTENNAS		*LIST*
KRA-24M	800 MHz Whip Antenna 1/4 wave end feed	36.75
KRA-32K	700/800 MHz Whip Antenna	35.00
KRA-36	700/800 MHz Stubby Antenna	25.00
KRA-38K	800/900 MHz Whip Antenna	35.00

BATTERIES AND CHARGERS		*LIST*
KBP-5	AA Alkaline Refillable Battery Pack (6 AA; 9V) cells not included	49.00
KMB-16	Six Unit Charger Adapter for the KSC-16/20/24/25/25L/30 chargers (chargers not included)	173.00
KMB-23	Six Unit Charger Adapter for the KSC-16/20/24/25/25L/32 chargers (chargers not included)	191.00
KMB-30M	Wall Mount Bracket for KSC-326K/256K	33.75
KNB-40LCV	1950 mAh, Li-ion battery - requires KSC-25/25L/256K charger **[Intrinsically Safe Option]**	112.00
KNB-55L	1480 mAh, Li-ion battery - requires KSC-25/25L/256K charger	60.00
KNB-56N	1400 mAh, Ni-MH battery	65.00
KNB-57L	2000 mAh, Li-ion battery - requires KSC-25/25L/256K charger	98.00
KSC-25	110 volt Rapid rate single unit charger for KNB-25A/26N/35L/40LC(V)/55L/56N/57L	62.00
KSC-256K	Rapid rate 6-Unit charger for KNB-25A/26N/35L/40LC(V)/55L/56N/57L	630.00
KSC-25L	100~240 volt rapid rate single unit charger for KNB-35L/40LC(V)/55L/57L Li-ion Battery	48.30
KSC-30	110 volt Regular rate single unit charger for KNB-25A/26N/56N	31.50
KVC-4	Vehicular charger adapter for the KSC-16/18/20/24/25 chargers (chargers not included)	84.00

CARRYING ACCESSORIES		*LIST*
KBH-12	Spring action belt clip	8.35
KBH-13DS	Leather swivel belt loop with portable D-Ring attachment	28.85
KLH-179K3	Heavy-Duty Leather Case w/Swivel Belt Loop for NX-220K3/320K3/K6/420K3 (Full Keypad)	49.00
KLH-180K3	Nylon carrying case for NX-220K3/320K3/K6/420K3 (Full Keypad)	26.30
KWR-1	Water resistant bag	29.85

MICROPHONES & AUDIO ACCESSORIES		*LIST*
KMC-48GPS	GPS Speaker Microphone **[Intrinsically Safe Approval Accessory]**	265.00
KMC-45	MIL-SPEC, IP54/55 Speaker microphone (Built-in 2.5mm miniature earphone jack) **[Intrinsically Safe Approval Accessory]**	86.00
KMC-21	Compact speaker microphone **[Intrinsically Safe Approval Accessory]**	51.50
KEP-2	2.5mm earphone kit for KMC-17/45 Speaker Mic **[Intrinsically Safe Approval Accessory]**	52.50
KHS-7	Single muff headset w/boom mic **[Intrinsically Safe Approval Accessory]**	70.00
KHS-7A	Lt. Wt Single muff headset w/boom mic & in-line PTT **[Intrinsically Safe Approval Accessory]**	105.00
KHS-8BL	Two-Wire palm mic w/earphone (black)	103.25
KHS-9BL	Three-Wire lapel mic w/earphone (black)	166.00

MICROPHONES & AUDIO ACCESSORIES - CONT'D		*LIST*
KHS-10-BH	Hvy-duty noise reduction behind-the-headset w/noise cancelling boom mic & in-line PTT **[Intrinsically Safe Approval Accessory]**	368.00
KHS-10-OH	Hvy-duty noise reduction over-the-headset w/noise cancelling boom mic & in-line PTT **[Intrinsically Safe Approval Accessory]**	336.00
KHS-22	Behind-the-Head Headset with flexible boom mic and in-line PTT single ear receiver (low profile wire head band)	41.00
KHS-23	2-Wire Cell-style Earbud Clip/PTT Palm Mic (medium duty)	55.50
KHS-25	Headset w/ D-Ring Ear Hanger w/ PTT & Boom Mic	24.50
KHS-26	Clip Mic w/earphone	28.00
KHS-27	D-Ring Ear Hanger w/PTT & Mic	24.50
KHS-31	C-Ring Ear Hanger w/PTT & Mic	30.00

SOFTWARE OPTIONS		*LIST*
KPG-150AP	NEXEDGE OTAP Manager Windows Software. • License Includes 10 radios / 1 Serial Port* • To add more radios/serial ports, you must contact Kenwood Systems Division [1-800-TRUNKING]	550.00
KWD-MS10	Stationary & Motion Detection Must Order **L-1700** to activate this feature.	60.00

SERVICE RELATED ACCESSORIES		*LIST*
KPG-141DNK	Windows® Programming Software for NX-220/320/420 (Compliant with FCC Part 90 Narrowbanding)	103.25
KPG-22UM	USB Programming interface cable	158.50

INSTALLATION / TUNING CHARGES		*LIST*
L-836	Assemble KMB-16 with six KSC-25/25L	15.00
L-961	Assemble KMB-23 with six KSC-24/25/25L/32 (Rapid Rate, 120 Volt versions only)	17.00
L-1699	NX-220/320/420 Programming (with basic TX/RX check)	37.50
L-1700	NX-220/320/420 KWD-MS10 Activation	N/C
L-1732	Configure NX-220/320/420 for Intrinsically Safe **Must Order an I.S. Battery**	70.00

MPT FIRMWARE/ACCESSORIES/TUNING		*LIST*
KPG-143DNK	Windows® Programming Software for NX series MPT (Compliant with FCC Part 90 Narrowbanding) (Dealer Level License ID included) **Note**: Must order **L-1727** for Network Level License ID & programming privileges	103.25
KWD-NX10MPT	MPT Trunking Field Upgrade Kit for NX series radio Must order **L-1729** **Note:** Not compatible with any other firmware options. Radio does not retain LTR trunking features once the MPT option is installed.	66.70
L-1726	Install MPT option in NX series radio	25.00
L-1727	Network Level License ID for KPG-143D(N) NX series Programmer	158.33
L-1728	Retrofit Install of MPT option in NX seires radio For previously purchased NX series radios. Order L-1728 through LMR order desk/rep. Ship radios to attn: Kenwood LMR Tuning, Long Beach for installation. Include Kenwood order number for L-1728 provided by order desk & copy of company P.O. or P.O. number. **Note:** see NX series MPT Introduction Sales Bulletin for details	85.00
L-1729	NX Series Radio MPT Firmware FIELD-UPGRADE (Must purchase KWD-NX10MPT separately)	NC
L-1730	Install KCT-57MS (for MPT Emergency Call)	20.00

-- IMPORTANT NOTES --
Encryption modules, key loaders and radios containing encryption are export controlled by the U.S. Department of Commerce Bureau of Industry & Security EAR regulations and may either require an Export License, are eligible for a License Exception (ENC) or are exportable with No License Required (NLR) depending on the country, the consignee and the intended use. High level encryption is a special commodity that may require an export license to most countries. See www.bis.gov for more information regarding export regulations. DO NOT SHIP encryption items outside the U.S. without proper DOC/BIS Export Licenses and/or compliances.

Kenwood may request the following information to be submitted at time of order (this information must meet Kenwood internal approvals prior to shipment even if being returned to Kenwood later:

a) Initial Destination: Initial delivery point if different from Ultimate Destination
(customer distribution center, headquarters, dealership, manufacturer's representative)
* Business/Agency Name:
* Address:
* Contact Person Name:
* Contact Phone:
b) Ultimate Destination: Final delivery point(s); deployment/distribution
* Business/Agency Name:
* Address:
* Contact Person Name:
* Contact Phone:
c) Intended Use of Radios: Law enforcement, security, operations, etc.

KWD-AE20 AES FIPS140-2 SCM , NIST Validation & Customer Shipping
A secure delivery method direct to the end user customer is required by the NIST AES FIPS 140-2 validation rules. For U.S. Federal Government entities the SCM must ship from Kenwood USA Corporation directly to the end user customer by a trusted carrier (FEDEX, UPS or a designated Kenwood USA Corporation employee); shipping/handling by a dealer or other entity is not acceptable. This may or may not be required by local/state government agencies or business/industrial users. Please check with the end use customer about their AES encryption handling requirements before ordering. Kenwood will not be responsible for shipments of KWD-AE20K modules to erroneous destinations specified on an order.

TK-190
Low Band VHF Portable Radio

190 series portables include:
• Belt Clip
• Universal Connector Cap
• Instruction Manual
• Channel Selector
Mechanical stop & dressing plate
• Standard Warranty: 2 Years*

* All Accessories / options: 1 Year

Purchase Battery, Charger
& Antenna, Separately

GENERAL FEATURES
• 6 W (29.7-37.0, 35.0-50.0 MHz)
• 16 Channels
• QT / DQT
• Priority Scan
• 7-Character Alphanumeric Aliases
• Lighted 13-Segment LCD
• Inverting LCD Display
• 3-Digit Sub-Display
• Function / Status LCD Icons
• Transmit / Busy / Call Alert / Warn LED
• 2 Top Panel PF keys
• 2 Side PF Keys
• Orange Emergency / AUX Key (side)
• 2-Position PF Toggle Switch (top)
• 500 mW Speaker Audio
• Encryption / ANI Board Control
• Emergency Call Features
• Emergency Man-Down Option

• Two-Tone Decode
• Operator Selectable Tone
• DTMF Encode / Decode
• Time Out Timer
• Busy Channel Lockout
• Low Battery Alert
• Battery Saver
• Weather-sealed ACC Connector
• MIL-Spec Speaker Mic Options
• Windows® Programming & Tuning
• Windows® Firmware Uploading
• Front Panel Test / Tune
• Cloning
• MIL-STD-810 C/D/E/G
• MIL-STD "Driven-Rain"

RADIO		LIST
TK-190K	VHF Low Band 29.7 – 37.0 MHz 6W, 16 Channels	674.00
TK-190K2	VHF Low Band 35.0 – 50.0 MHz 6W, 16 Channels	674.00

Important Notice:
If this transceiver is programmed for more than one channel, the transmit frequencies must be within a 500 kHz range.
The physical condition of the antenna may affect the radio's performance. If the original KRA-21 antenna is worn, bent or damaged, immediately have your Kenwood authorized dealer replace the antenna with a new, properly adjusted KRA-21 antenna. Failure to follow these instructions may cause poor performance, damage to your transceiver, and may also place excess transmitter energy on the metal portions of your radio, which could make the transceiver uncomfortable to handle when transmitting. When transmitting, if your hand feels uncomfortable, contact your Kenwood dealer for a transceiver inspection, and possible antenna replacement.

ANTENNA		LIST
KRA-21	Tunable VHF Low Band helical antenna 29.7-50MHz. **Note**: Antenna band width is 1 MHz Caution: the TK-190 antenna must be cut per the antennas cutting chart and instructions. Failure to do so will result in a poorly matched antenna, poor performance and most probably excessive and damage in the transmitters final power amplifier circuit.	42.00

BATTERIES AND CHARGERS		*LIST*
KNB-22N	2100 mAh, Ni-MH battery - requires KSC-24 charger	73.50
KNB-51NC	2100 mAh, Ni-MH battery - requires KSC-24 charger **[Intrinsically Safe Approved Accessory]**	114.00
KNB-52N	1400 mAh, Ni-MH battery	67.00
KBP-4	AA Alkaline Refillable Battery Pack (12 AA; 9V) cells not included	43.00
KSC-19	110 volt Regular rate single unit desk charger for KNB-16/17A/17B/52N	36.75
KSC-24	110 volt Rapid rate single unit charger for KNB-14/15/16/17A/17B/20N/21N/22N/22NC/52N	62.00
KMB-16	Six Unit Charger Adapter for the KSC-16/20/24/25/25L/30 chargers (chargers not included)	173.00
KMB-23	Six Unit Charger Adapter for the KSC-16/20/24/25/25L/32 chargers (chargers not included)	191.00
KVC-3	Vehicular charger adapter for the KSC-15/17/19/25L/30 chargers (chargers not included)	63.00
KVC-4	Vehicular charger adapter for the KSC-16/18/20/24/25 chargers (chargers not included)	84.00

CARRYING ACCESSORIES		*LIST*
KBH-10	Spring action belt clip	8.35
KBH-8DS	Leather swivel belt loop with portable D-Ring attachment	26.30
KLH-6SW	Leather swivel belt loop / detachable swivel D-Ring back	22.00
KLH-78B	Heavy duty leather carrying case for TK-190/290/390/5400 (Non DTMF keypad models)	44.25
KLH-88	Cordura Nylon carrying case for TK-190/290/390/5400 (Non DTMF keypad models)	26.30
KLH-137ST	Firemen's Heavy-Duty Leather Shoulder Strap for a Heavy-Duty Leather Case (KLH-75B/76B/78B/79B//92/122/123/133/148/154)	36.75
KLH-141	Extra Heavy-Duty Cordura Nylon carrying case for TK-190/290/390 (all battery packs; no keypad access)	34.75

MICROPHONES & AUDIO ACCESSORIES		*LIST*
KEP-1	3.5mm earphone kit for KMC-25/26/41M/42WM Speaker Mics **[Intrinsically Safe Approved Accessory]**	52.50
KCT-30	2.5mm Audio Accessory Adapter for KEP-3/4 **[Intrinsically Safe Approved Accessory]**	64.00
KEP-3	30" Earphone kit w/ 2.5mm plug for KCT-30 **[Intrinsically Safe Approved Accessory]**	51.50
KEP-4	48" Earphone kit w/ 2.5mm plug for KCT-30 **[Intrinsically Safe Approved Accessory]**	54.75
KMC-25A	MIL-SPEC, Noise canceling Speaker mic **[Intrinsically Safe Approved Accessory]** **Note**: KMC-25 is not compatible with the TK-190 due to the effects of RF on it at low band frequencies; the KMC-25A is the compatible model. The KMC-26 Speaker microphone with antenna connector CANNOT be used due to the inadequate ground plane properties on a speaker microphone at low band frequencies (the TK-190 does not have an RF pin on its accessory connector).	96.50
KHS-11BE	2-wire palm mic w/earphone, universal connector (Beige) **[Intrinsically Safe Approved Accessory]**	156.50
KHS-11BL	2-wire palm mic w/earphone, universal connector (Black) **[Intrinsically Safe Approved Accessory]**	156.50
KHS-12BE	3-wire mini lapel mic w/earphone, universal connector (Beige) **[Intrinsically Safe Approved Accessory]**	184.00
KHS-12BL	3-wire mini lapel mic w/earphone, universal connector (Black) **[Intrinsically Safe Approved Accessory]**	184.00
KHS-14	Lt. Wt. Single muff headset w/boom mic & In-line PTT **[Intrinsically Safe Approved Accessory]**	126.00
KHS-15-BH	Hvy-duty noise reduction behind-the-headset w/noise cancelling boom mic & in-line PTT **[Intrinsically Safe Approved Accessory]**	420.00
KHS-15-OH	Hvy-duty noise reduction over-the-headset w/noise cancelling boom mic & in-line PTT **[Intrinsically Safe Approved Accessory]**	368.00

KENWOOD

OPTION MODULES	*LIST*

KCT-57MS	Man-Down Internal Tilt Switch (Non-Mercury) **[Intrinsically Safe Approved Accessory]**- Must be Kenwood installed for I.S. Order **L-1618** for FleetSync® operations	22.00

SERVICE RELATED ACCESSORIES	*LIST*

KPG-36UM	USB Programming interface cable	158.50
KPG-59DK	Windows® Program Software for TK-190/6110 (Version 2.00)	68.50
*************** E30-3325-05	**Contact Kenwood Parts for Price and Availability 800-367-7514 on the following:** Portable-to-Portable Cloning cable (For TK-190/290/390/480/481 Only)	---

INSTALLATION / TUNING CHARGES	*LIST*

L-836	Assemble KMB-16 with six KSC-20's/24's	15.00
L-837	Install KNB-21N/22N/22NC/51NC/52N battery	0.00
L-870	Simultaneous transpond and alert feature up-grade for 90-series mobiles & portables	50.00
L-911	TK-190/TK-6110 Programming (with basic TX/RX check)	25.00
L-914	Cut KRA-21 Low Band Antenna	10.00
L-961	Assemble KMB-23 with six KSC-32K's (Rapid Rate, 120 Volt version only)	17.00
L-1060	80/90 PORTABLE KCT-57MS INSTALLATION (FOR FLEETSYNC)	20.00

KENWOOD

TK-290 / 390
VHF / UHF FM Transceivers

GENERAL FEATURES
- 5 W (136-174 MHz)
- 4 W (450-490 MHz)
- 160 Channels / 16 Channel Groups
- QT / DQT
- Dual Priority Scan
- Single & Multi-Group Scan
- 7-Character Alphanumeric Aliases
- Lighted 13-Segment LCD
- Inverting LCD Display
- 3-Digit Sub-Display
- Function / Status LCD Icons
- Transmit / Busy / Call Alert / Warn LED
- 2 Top Panel PF keys
- 2 Side PF Keys
- Orange Emergency / AUX Key (side)
- 2-Position PF Toggle Switch (top)
- 12-Key DTMF Keypad Models
- 500 mW Speaker Audio
- Companded Audio
- Encryption / ANI Board Control
- Emergency Call Features
- Emergency Man-Down Option

- Two-Tone Decode
- Operator Selectable Tone
- DTMF Encode / Decode
- Time Out Timer
- Busy Channel Lockout
- Low Battery Alert
- Battery Saver
- Weather-sealed ACC Connector
- MIL-Spec Speaker Mic Options
- Windows® Programming & Tuning
- Windows® Firmware Uploading
- Front Panel Test / Tune
- Cloning
- MIL-STD-810 C/D/E/F/G
- MIL-STD "Driven-Rain"
- MSHA Mine Safety Option**
- PA Bureau of Mine Safety Option***

FleetSync®
- PTT ID Digital ANI
- Emergency Status

All 90 series portables include:
- Belt Clip
- Universal Connector Cap
- Instruction Manual
- Channel Selector
Mechanical stop & dressing plate
- Standard Warranty: 2 Years*

* All Accessories / options: 1 Year

Purchase Battery, Charger & Antenna Separately

--- Must Order **L-1027** for MSHA Intrinsically Safe option ---

** **MSHA Intrinsically Safe Models**: Under U.S. CFR Title 30 Part 23, APPROVAL No. 23-A060002, the TK-290/390 portable radios*** (with or without keypad models) are approved intrinsically safe for use in methane-air mixtures only with only the Kenwood 7.2V KNB-51NC battery pack and the MSHA-certified listed options/accessories. The battery pack should only be charged in fresh air

*** TK-290K/K2 & TK-390K/K4 Only (TK-390K2/K3/K6 are not MSHA approved)

--- PA Bureau of Mine Safety option is also **available through the LMR order desk** ---

*** **PA Mines Intrinsically Safe Models**: Under U.S. CFR Title 30 Part 23, APPROVAL No. 23-A060002, the TK-290/390 portable radios*** (with or without keypad models) are approved intrinsically safe for use in bituminous underground coal mines only with only the Kenwood 7.2V KNB-51NC battery pack and the MSHA-certified listed options/accessories. The battery pack should only be charged in fresh air

*** TK-290K/K2 & TK-390K/K4 Only (TK-390K2/K3/K6 are not Commonwealth of PA approved)

RADIO		*LIST*
TK-290K	136-174 MHz 5W, 160 Ch. w/dual priority scan **[MSHA Intrinsically Safe Option]**	788.00
TK-290K2	136-174 MHz 5W, 160 Ch. w/dual priority scan, w/DTMF keypad **[MSHA Intrinsically Safe Option]**	840.00
TK-390K	450-490 MHz 4W, 160 Ch. w/dual priority scan **[MSHA Intrinsically Safe Option]**	840.00
TK-390K4	450-490 MHz 4W, 160 Ch. w/dual priority scan, w/DTMF keypad **[MSHA Intrinsically Safe Option]**	893.00

ANTENNAS		*LIST*
KRA-14M	VHF helical antenna 148-162 MHz	17.80
KRA-14M2	VHF helical antenna 162-174 MHz	17.80
KRA-14M3	VHF helical antenna 136-150 MHz	17.80
KRA-15AM	UHF whip antenna 450-490 MHz	17.80
KRA-15AM2	UHF whip antenna 470-512 MHz	17.80
KRA-15AM3	UHF whip antenna 403-430 MHz	17.80

ANTENNAS - CONT'D		LIST
KRA-16M	VHF stubby antenna 148-162 MHz	13.70
KRA-16M2	VHF stubby antenna 162-174 MHz	13.70
KRA-16M3	VHF stubby antenna 136-150 MHz	13.70
KRA-17M	UHF stubby antenna 450-490 MHz	13.70
KRA-17M2	UHF stubby antenna 470-512 MHz	13.70
KRA-17M3	UHF stubby antenna 403-430 MHz	13.70
KRA-22M	VHF short helical antenna 148-162 MHz	13.70
KRA-22M2	VHF short helical antenna 162-174 MHz	13.70
KRA-22M3	VHF short helical antenna 136-150 MHz	13.70
KRA-23M	UHF short whip antenna 450-490 MHz	13.70
KRA-23M2	UHF short whip antenna 470-512 MHz	13.70
KRA-23M3	UHF short whip antenna 403-430 MHz	13.70
KRA-26M	VHF helical antenna 146-162 MHz	14.00
KRA-26M2	VHF helical antenna 162-174 MHz	14.00
KRA-26M3	VHF helical antenna 136-150 MHz	14.00
KRA-27M	UHF whip antenna 440-490 MHz	14.00
KRA-27M2	UHF whip antenna 470-520 MHz	14.00
KRA-27M3	UHF whip antenna 400-450 MHz	14.00
KRA-25	High gain VHF helically loaded whip antenna 148-162 MHz	34.25

BATTERIES AND CHARGERS		LIST
KNB-22N	2100 mAh, Ni-MH battery - requires KSC-24 charger	73.50
KNB-51NC	2100 mAh, Ni-MH battery - requires KSC-24 charger **[Intrinsically Safe Approved Accessory] [MSHA Approved Accessory]**	114.00
KNB-52N	1400 mAh, Ni-MH battery	67.00
KBP-4	AA Alkaline Refillable Battery Pack (12 AA; 9V) cells not included	43.00
KSC-19	110 volt Regular rate single unit desk charger for KNB-16/17A/17B/52N	36.75
KSC-24	110 volt Rapid rate single unit charger for KNB-14/15/16/17A/17B/20N/21N/22N/22NC/51NC/52N	62.00
KMB-16	Six Unit Charger Adapter for the KSC-16/20/24/25/25L/30 chargers (chargers not included)	173.00
KMB-23	Six Unit Charger Adapter for the KSC-16/20/24/25/25L/32 chargers (chargers not included)	191.00
KVC-3	Vehicular charger adapter for the KSC-15/17/19/25L/30 chargers (chargers not included)	63.00
KVC-4	Vehicular charger adapter for the KSC-16/18/20/24/25 chargers (chargers not included)	84.00

CARRYING ACCESSORIES		LIST
KBH-10	Spring action belt clip	8.35
KBH-8DS	Leather swivel belt loop with portable D-Ring attachment	26.30
KLH-6SW	Leather swivel belt loop / detachable swivel D-Ring back	22.00
KLH-78B	Heavy duty leather carrying case for TK-190/290/390/5400 (Non DTMF keypad models)	44.25
KLH-79B	Heavy duty leather carrying case for TK-290/390/5400 (DTMF keypad models)	44.25
KLH-88	Cordura Nylon carrying case for TK-190/290/390/5400 (Non DTMF keypad models)	26.30
KLH-89	Cordura Nylon carrying case for TK-290/390/5400 (DTMF Keypad models)	26.30
KLH-90	Heavy duty leather carrying case for TK-290/390/5400 (DTMF keypad models w/ KBP-4)	44.25
KLH-137ST	Firemen's Heavy-Duty Leather Shoulder Strap for a Heavy-Duty Leather Case (KLH-75B/76B/78B/79B//92/122/123/133/148/154)	36.75
KLH-141	Extra Heavy-Duty Cordura Nylon carrying case for TK-190/290/390 (all battery packs; no keypad access)	34.75

MICROPHONES & AUDIO ACCESSORIES		*LIST*
KEP-1	3.5mm earphone kit for KMC-25/26/41M/42WM Speaker Mics **[Intrinsically Safe Approved Accessory] [MSHA Approved Accessory]**	52.50
KCT-30	2.5mm Audio Accessory Adapter for KEP-3/4 **[Intrinsically Safe Approved Accessory]**	64.00
KEP-3	30" Earphone kit w/ 2.5mm plug for KCT-30 **[Intrinsically Safe Approved Accessory] [MSHA Approved Accessory]**	51.50
KEP-4	48" Earphone kit w/ 2.5mm plug for KCT-30 **[Intrinsically Safe Approved Accessory]**	54.75
KMC-25	MIL-SPEC, Noise canceling Speaker mic **[Intrinsically Safe Approved Accessory] [MSHA Approved Accessory]**	96.50
KMC-41M	MIL-SPEC, IP54/55 Noise-canceling Speaker Mic **[MSHA Approved Accessory]**	96.50
KMC-42WM	MIL-SPEC, IP67 (Immersion) Noise-canceling Speaker Mic **[MSHA Approved Accessory]** **Important Note:** Portable radio does not have an IP67 Immersion option; meets MIL STD810 rain standards	114.00
KMC-26	MIL-SPEC, Noise canceling Speaker mic w/Antenna Connector (ant. not incl.) **[Intrinsically Safe Approved Accessory] [MSHA Approved Accessory]**	115.50
KHS-11BE	2-wire palm mic w/earphone, universal connector (Beige) **[Intrinsically Safe Approved Accessory]**	156.50
KHS-11BL	2-wire palm mic w/earphone, universal connector (Black) **[Intrinsically Safe Approved Accessory]**	156.50
KHS-12BE	3-wire mini lapel mic w/earphone, universal connector (Beige) **[Intrinsically Safe Approved Accessory]**	184.00
KHS-12BL	3-wire mini lapel mic w/earphone, universal connector (Black) **[Intrinsically Safe Approved Accessory]**	184.00
KHS-14	Lt. Wt. Single muff headset w/boom mic & In-line PTT **[Intrinsically Safe Approved Accessory]**	126.00
KHS-15-BH	Hvy-duty noise reduction behind-the-headset w/noise cancelling boom mic & in-line PTT **[Intrinsically Safe Approved Accessory] [MSHA Approved Accessory]**	420.00
KHS-15-OH	Hvy-duty noise reduction over-the-headset w/noise cancelling boom mic & in-line PTT **[Intrinsically Safe Approved Accessory] [MSHA Approved Accessory]**	368.00

OPTION MODULES		*LIST*
KCT-57MS	Man-Down Internal Tilt Switch (Non-Mercury) **[Intrinsically Safe Approved Accessory]**- Must be Kenwood installed for I.S. Order **L-1060** for FleetSync® operations	22.00

SERVICE RELATED ACCESSORIES		*LIST*
KPG-36UM	USB Programming interface cable	158.50
KPG-38DNK	Windows® Programming Software for TK-290/390 (Compliant with FCC Part 90 Narrowbanding) **Note:** Self-programming function is not available.	68.50
*****************	**Contact Kenwood Parts for Price and Availability 800-367-7514 on the following:**	
E30-3325-05	Portable-to-Portable Cloning cable (For TK-190/290/390/480/481 Only)	---

INSTALLATION / TUNING CHARGES		*LIST*
L-804	TK-290/390 Programming (with basic TX/RX check)	25.00
L-836	Assemble KMB-16 with six KSC-24's	15.00
L-837	Install KNB-21N/22N/22NC/51NC/52N battery	0.00
L-870	Simultaneous transpond and alert feature up-grade for 90-series mobiles & portables	50.00
L-961	Assemble KMB-23 with six KSC-24/25/32 (Rapid Rate, 120 Volt versions only)	17.00
L-1027	Configure TK-290/390 for MSHA Intrinsically Safe **Must order KNB-51NC**	70.00
L-1060	80/90 PORTABLE KCT-57MS INSTALLATION (FOR FLEETSYNC)	20.00

TK-2140 / 3140
VHF/UHF Trunking / Conventional Compact Portable Radios

All 140 series portables include:
• Belt Clip (KBH-12)
• Universal Connector Cap
• Instruction Manual
• Premiuam Warranty: 3 Years*

* All Accessories / options: 1 Year

Order packages to include Antenna, Battery & Charger, or purchase Battery, Charger, and Antenna separately.

GENERAL FEATURES
• 5 W (136-174 MHz)
• 4 W (450-490 MHz)
• 32 Conventional & LTR® Systems
• 10 Character Alphanumeric Aliases
• Lighted Dot Matrix LCD
• 3-Digit Sub-Display
• Function / Status LCD Icons
• Transmit / Busy / Call Alert / Warn LED
• 4 Front Panel PF keys
• 2 Side PF Keys
• Orange Emergency / AUX Key
• 500 mW Speaker Audio
• Companded Audio
• Emergency Call Features
• DTMF Encode / Decode
• Time Out Timer
• Busy Channel Lockout
• LCD Battery Status Indicator
• Low Battery Alert
• Battery Saver
• Weather-sealed ACC Connector
• MIL-Spec Speaker Mic Option
• Windows® Programming & Tuning
• Windows® Firmware Uploading
• Front Panel Test / Tune
• Cloning

• MIL-STD-810 C/D/E/F/G
• MIL-STD "Driven-Rain"
• Intrinsically Safe Option*

CONVENTIONAL SYSTEMS
• 250 Channels
• QT / DQT
• Two-Tone Decode
• Operator Selectable Tone
• Single Priority Scan
• Single & Multi-Group Scan

TRUNKED SYSTEMS
• 250 GID
• Kenwood LTR® **Features**

FleetSync®
• PTT ID Digital ANI
• Selective Call & Group Call
• Status Messaging
• Emergency Status
• Caller ID Display
• Short Text Messages

--- Must Order **L-942** for Intrinsically Safe Option ---
* Approved for Classes I, II & III, Div. 1, Groups C, D, E, F, G hazardous locations and Non-Incendive Class I, Div. 2, Groups A, B, C & D hazardous locations.

Li-ion VALUE PACKAGES / LIST

			LIST
TK-2140-SLKVP	VHF Li-ion Value Pack	(TK-2140 + KNB-55L + KSC-25L + KRA-26M)	715.30
TK-2140-LKVP	VHF Hi-Cap Li-ion Value Pack	(TK-2140 + KNB-57L + KSC-25L + KRA-26M)	753.30
TK-3140-SLKVP	UHF Li-ion Value Pack	(TK-3140K + KNB-55L + KSC-25L + KRA-27M)	733.30
TK-3140-LKVP	UHF Hi-Cap Li-ion Value Pack	(TK-3140K + KNB-57L + KSC-25L + KRA-27M)	771.30

PACKAGES / LIST

			LIST
TK-2140-NKP	VHF Basic Package	(TK-2140 + KNB-56N + KSC-30 + KRA-26M)	703.50
TK-2140-SLKP	VHF Standard Slim Package	(TK-2140 + KNB-55L + KSC-25 + KRA-26M)	729.00
TK-2140-LKP	VHF Premium Package	(TK-2140 + KNB-57L + KSC-25 + KRA-26M)	767.00
TK-3140-NKP	UHF Basic Package	(TK-3140K + KNB-56N + KSC-30 + KRA-27M)	721.50
TK-3140-SLKP	UHF Standard Slim Package	(TK-3140K + KNB-55L + KSC-25 + KRA-27M)	747.00
TK-3140-LKP	UHF Premium Package	(TK-3140K + KNB-57L + KSC-25 + KRA-27M)	785.00

RADIO / LIST

		LIST
TK-2140	136-174 MHz 5W, LTR-32 Systems, CONV-250 CH.	593.00
TK-3140K	450-490 MHz 4W, LTR-32 Systems, CONV-250 CH.	611.00

ANTENNAS		LIST
KRA-14M	VHF helical antenna 148-162 MHz	17.80
KRA-14M2	VHF helical antenna 162-174 MHz	17.80
KRA-14M3	VHF helical antenna 136-150 MHz	17.80
KRA-15AM	UHF whip antenna 450-490 MHz	17.80
KRA-15AM2	UHF whip antenna 470-512 MHz	17.80
KRA-15AM3	UHF whip antenna 403-430 MHz	17.80
KRA-16M	VHF stubby antenna 148-162 MHz	13.70
KRA-16M2	VHF stubby antenna 162-174 MHz	13.70
KRA-16M3	VHF stubby antenna 136-150 MHz	13.70
KRA-17M	UHF stubby antenna 450-490 MHz	13.70
KRA-17M2	UHF stubby antenna 470-512 MHz	13.70
KRA-17M3	UHF stubby antenna 403-430 MHz	13.70
KRA-22M	VHF low-profile helical antenna 148-162 MHz	13.70
KRA-22M2	VHF low-profile helical antenna 162-174 MHz	13.70
KRA-22M3	VHF Low-profile helical antenna 136-150 MHz	13.70
KRA-23M	UHF low-profile helical antenna 450-490 MHz	13.70
KRA-23M2	UHF low-profile helical antenna 470-512 MHz	13.70
KRA-23M3	UHF low-profile helical antenna 403-430 MHz	13.70
KRA-26M	VHF helical antenna 146-162 MHz	14.00
KRA-26M2	VHF helical antenna 162-174 MHz	14.00
KRA-26M3	VHF helical antenna 136-150 MHz	14.00
KRA-27M	UHF whip antenna 440-490 MHz	14.00
KRA-27M2	UHF whip antenna 470-520 MHz	14.00
KRA-27M3	UHF whip antenna 400-450 MHz	14.00

BATTERIES AND CHARGERS		LIST
KBP-5	AA Alkaline Refillable Battery Pack (6 AA; 9V) cells not included	49.00
KNB-55L	1480 mAh, Li-ion battery - requires KSC-25/25L/256K charger	60.00
KNB-56N	1400 mAh, Ni-MH battery	65.00
KNB-57L	2000 mAh, Li-ion battery - requires KSC-25/25L/256K charger	98.00
KNB-40LCV	1950 mAh, Li-ion battery - requires KSC-25/25L/256K charger **[Intrinsically Safe Option]**	112.00
KSC-25L	120 ~ 240 volt rapid rate single unit charger for KNB-35L/40LC(V)/55L/57L Li-ion Battery	48.30
KSC-25	110 volt Rapid rate single unit charger for KNB-25A/26N/35L/40LC(V)/55L/56N/57L	62.00
KSC-30	110 volt Regular rate single unit charger for KNB-25A/26N/56N	31.50
KSC-256K	Rapid rate 6-Unit charger for KNB-25A/26N/35L/40LC(V)/55L/56N/57L	630.00
KMB-30M	Wall Mount Bracket for KSC-326K/256K	33.75
KMB-16	Six Unit Charger Adapter for the KSC-16/20/24/25/25L/30 chargers (chargers not included)	173.00
KMB-23	Six Unit Charger Adapter for the KSC-16/20/24/25/25L/32 chargers (chargers not included)	191.00
KVC-3	Vehicular charger adapter for the KSC-15/17/19/25L/30 chargers (chargers not included)	63.00
KVC-4	Vehicular charger adapter for the KSC-16/18/20/24/25 chargers (chargers not included)	84.00

CARRYING ACCESSORIES		LIST
KBH-12	Spring action belt clip	8.35
KBH-13DS	Leather swivel belt loop with portable D-Ring attachment	28.85
KLH-114	Soft leather case for TK-2140/3140	44.25
KLH-116	Heavy-Duty Leather Case w/Swivel Belt Loop for TK-2140/3140	49.00
KWR-1	Water resistant bag	29.85

MICROPHONES & AUDIO ACCESSORIES — LIST

Model	Description	LIST
KEP-1	3.5mm earphone kit for KMC-25/26/41M/42WM Speaker Mics **[Intrinsically Safe Approved Accessory]**	52.50
KCT-30	2.5mm Audio Accessory Adapter for KEP-3/4 **[Intrinsically Safe Approved Accessory]**	64.00
KEP-3	30" Earphone kit w/ 2.5mm plug for KCT-30 **[Intrinsically Safe Approved Accessory]**	51.50
KEP-4	48" Earphone kit w/ 2.5mm plug for KCT-30 **[Intrinsically Safe Approved Accessory]**	54.75
KMC-41M	MIL-SPEC, IP54/55 Noise-canceling Speaker Mic **[Intrinsically Safe Approved Accessory]**	96.50
KMC-42WM	MIL-SPEC, IP67 (Immersion) Noise-canceling Speaker Mic **[Intrinsically Safe Approved Accessory]** **Note:** Radio does not have an IP67 Immersion option; meets MIL STD810 rain standards	114.00
KMC-51M	MIL-SPEC, IP54/55 DSP Digital Noise-canceling Speaker Mic **[see note 1]**	250.00
KMC-52W	MIL-SPEC, IP67 (Immersion) DSP Digital Noise-canceling Speaker Mic **[see note 1]** **Note**: Radio does not have an IP67 Immersion option; meets MIL STD810 rain standards	300.00
	[note 1]: To adjust microphone settings different from factory default, download KPG-147NC configuration software and special configuration firmware from Kenwood Tools (no charge).	
KHS-11BE	2-wire palm mic w/earphone, universal connector (Beige) **[Intrinsically Safe Approved Accessory]**	156.50
KHS-11BL	2-wire palm mic w/earphone, universal connector (Black) **[Intrinsically Safe Approved Accessory]**	156.50
KHS-12BE	3-wire mini lapel mic w/earphone, universal connector (Beige) **[Intrinsically Safe Approved Accessory]**	184.00
KHS-12BL	3-wire mini lapel mic w/earphone, universal connector (Black) **[Intrinsically Safe Approved Accessory]**	184.00
KHS-14	Lt. Wt. Single muff headset w/boom mic & In-line PTT **[Intrinsically Safe Approved Accessory]**	126.00
KHS-15-BH	Hvy-duty noise reduction behind-the-headset w/noise cancelling boom mic & in-line PTT **[Intrinsically Safe Approved Accessory]**	420.00
KHS-15-OH	Hvy-duty noise reduction over-the-headset w/noise cancelling boom mic & in-line PTT **[Intrinsically Safe Approved Accessory]**	368.00

SERVICE RELATED ACCESSORIES — LIST

Model	Description	LIST
KPG-36UM	USB Programming interface cable	158.50
KPG-74DNK	Windows® Programming Software for TK-2140/3140 (Compatible with FCC Part 90 Narrowbanding) **Note:** Self-programming function is not available.	103.25

INSTALLATION / TUNING CHARGES — LIST

Model	Description	LIST
L-836	Assemble KMB-16 with six KSC-25/25L	15.00
L-924	TK-2140/3140 Programming (with basic TX/RX check)	25.00
L-942	Configure TK-2140/3140 for Intrinsically Safe **Must order an I.S. battery**	70.00
L-961	Assemble KMB-23 with six KSC-24/25/25L/32 (Rapid Rate, 120 Volt versions only)	17.00

FleetSync ® for TK-2140/3140 Series Portables	DEALER LIST

This radios firmware includes both FleetSync® Basic and Enhanced feature sets. However, the "FleetSync® Enhanced" features must be "activated" in the radio by purchasing the FleetSync Enhanced Option.

FleetSync ® Basic Features - "Basic" features are available in each radio as shipped from Kenwood (no actitvation is required). The entire Basic feature set is designed to operate between other FleetSync® capable base and fleet radios. Some Basic feature sets require a base dispatch PC application software and/or dispatch hardware device for practical dispatch operations.
1) PTT ANI - digital ANI sent on each PTT using the FleetSync® ID.
2) Caller ID / Caller ID Stack- decodes an incoming PTT ID and displays the caller alphanumeric tag; Caller ID Stack stores the last 3 calls for review.
3) Selective Call - allows base-to-fleet and fleet-to-fleet selective calling via a pre-stored 100 ID list. Each ID can have an 16 character alphanumeric tag for easy selection and Caller ID recognition.
4) Status Messaging - provides up to 50 pre-stored sixteen-character alphanumeric messages permitting a base to send a larger variety of job-type messages and fleet radios to display and respond accordingly with complimentary acknowledgements. lincludes special reserved statuses for: Emergency, Emergency Man-down, Emergency Mode Off, Horn Alert (mobiles) and Radio Stun/Acknowledge/Resurrect statuses.

FleetSync ® Enhanced Option Features - The FleetSync® Enhanced Option must be "activated" in the radio at an extra charge by ordering labor code L-928 for a Kenwood install or by ordering the appropriate quantities of L-925/926/927, SRB08698 and KPG-65ED dealer field retrofit options. This enables the following enhanced features in addition to the Basic feature set:
5) PC Serial Control (mobiles only) - PC Serial Interface enables mobile COM port I/O serial data line for communications between an FleetSync®-capable mobile radio and a FleetSync®-compatible PC application software or a peripheral device (e.g. KDS-100).
6) Short Text Messaging - decodes, stores and displays up to four 48-character Short Text messages
7) Long Text Messaging (mobiles only) - decodes and stores one 1024-character message for output to an external MDT or decode-display device.
8) **FleetSync®-AVL (mobiles only)** - embeds GPS NMEA information in FleetSync® data packets and sends them to a base/control station interfaced with a FleetSync®-AVL compatible software.

To program all 140-Series radio parameters (including FleetSync ® parameters):

KPG-36UM	USB Programming interface cable	158.50
KPG-74DNK	Windows® Programming Software for TK-2140/3140 (Compatible with FCC Part 90 Narrowbanding) **Note:** Self-programming function is not available.	103.25

Kenwood Installed FleetSync ® Enhanced Option

L-928	FleetSync® Enhanced Option	50.00

Dealer Installed FleetSync® Enhanced Options

	Note: Instead of L-928, options L-925/926/927; SRB08698 Hardware Key and KPG-65ED can be purchased for dealer field installation of the FleetSync® Enhanced option.	
L-925	FleetSync® Enhanced Option (field retrofit) for 140-series; Price each for qty. 1-24	50.00
L-926	FleetSync® Enhanced Option (field retrofit) for 140-series; Price each for qty. 25-99	50.00
L-927	FleetSync® Enhanced Option (field retrofit) for 140-series; Price each for qty. 100+	50.00
SRB08698	Hardware Key **Note**: SRB08698 hardware key holds also 100 ESN's maximum; multiple keys must be purchased for orders over 100. The SRB08698 hardware key requires L-925, 926, or 927 options to be loaded into it. The hardware key requires the KPG-65ED to activate FleetSync® Enhanced Options in a 40-Series radio. The SRB08698 hardware key can be returned when empty for 50% credit. Call the LMR order desk for an RMA#. Credit will NOT be issued for the L-925/926/927 options.	87.50
KPG-65EDK	FleetSync® Enhanced Option Installation Software **Note**: Required for L-925/926/927 & SRB08698 use. This software is re-usable on future orders of L-925/926/927 The KPG-65ED is a one-time order and may be re-used on future orders of L-925, 926, or 927. The SRB08698 hardware key must be installed on the PC parallel port for the KPG-65ED to operate.	10.50

TK-2170 / 3170
Compact VHF / UHF FM Portable Radios

All 170 series portables include:
• Belt Clip (KBH-12)
• 2-PIN Connector Cap
• Instruction Manual
• Standard Warranty: 2 Years*

* All Accessories / options: 1 Year

Order packages to include Battery, Charger & Antenna, or purchase Battery, Charger, and Antenna separately.

GENERAL FEATURES
• 5 W (136-174 MHz) Models
• 4 W (450-490, 400-430 MHz) Models
• Conventional Zones
• 128 Channels / 128 Zones
• Single Priority Scan
• Single & Multi-Zone Scan
• List Scan
• 8 Character Alphanumeric Aliases
• Backlit LCD
• Function / Status LCD Icons
• Transmit / Busy / Call Alert / Warn LED
• 4 Front Panel PF keys
• 3 Side PF Keys
• Orange Emergency / AUX Key
• 12-Key DTMF / PF Keypad Models
• 500 mW Audio Power
• Enhanced Kenwood Audio
• Companded Audio
• VOX Ready
• Voice Inversion Scrambler Built-in
• Encryption / ANI Board Control
• Easy Option Port (20-Pin)
• Emergency Call Features
• QT / DQT
• Two-Tone Decode
• Single / Two-Tone Encode

• Operator Selectable Tone
• DTMF Encode / Decode
• Special Alert Tone Pattern
• Call Key
• Time Out Timer
• Busy Channel Lockout
• LCD Battery Status Indicator
• Low Battery Alert
• Battery Saver
• Weather-sealed ACC Connector
• Speaker Mic Options
• Windows® Programming & Tuning
• Windows® Firmware Uploading
• Field Programming & Tuning
• Cloning
• MIL-STD-810 C/D/E/F/G
• MIL-STD "Driven-Rain"
• IP-54/55 Water & Dust Intrusion
• Intrinsically Safe Option*

FleetSync®
• PTT ID Digital ANI
• Selective Call & Group Call
• Status Messaging
• Emergency Status
• Caller ID Display
• Short Text Messages
• PC Serial Interface

--- Must Order **L-1000** for Intrinsically Safe Option ---

* Approved for Classes I, II & III, Div. 1, Groups C, D, E, F, G and are also approved for non-Incendive use in Class I, Div. 2, Groups A, B, C, D hazardous locations.

Li-ion VALUE PACKAGES

			LIST
TK-2170-SLKVP	VHF Li-ion Value Pack	(TK-2170K + KNB-55L + KSC-25L + KRA-26M)	472.30
TK-2170-LKVP	VHF Hi-Cap Li-ion Value Pack	(TK-2170K + KNB-57L + KSC-25L + KRA-26M)	510.30
TK-3170-SLKVP	UHF Li-ion Value Pack	(TK-3170K + KNB-55L + KSC-25L + KRA-27M)	489.30
TK-3170-LKVP	UHF Hi-Cap Li-ion Value Pack	(TK-3170K + KNB-57L + KSC-25L + KRA-27M)	527.30

PACKAGES

			LIST
TK-2170-NKP	VHF Basic Package	(TK-2170K + KNB-56N + KSC-30 + KRA-26M)	460.50
TK-2170-SLKP	VHF Standard Slim Package	(TK-2170K + KNB-55L + KSC-25 + KRA-26M)	486.00
TK-2170-LKP	VHF Premium Package	(TK-2170K + KNB-57L + KSC-25 + KRA-26M)	524.00
TK-3170-NKP	UHF Basic Package	(TK-3170K + KNB-56N + KSC-30 + KRA-27M)	477.50
TK-3170-SLKP	UHF Standard Slim Package	(TK-3170K + KNB-55L + KSC-25 + KRA-27M)	503.00
TK-3170-LKP	UHF Premium Package	(TK-3170K + KNB-57L + KSC-25 + KRA-27M)	541.00

RADIO

		LIST
TK-2170K	136-174 MHz 5W, 128 CH / 128 Zone Conventional; 8 Character LCD, 4-key	350.00
TK-2170K2	136-174 MHz 5W, 128 CH / 128 Zone Conventional; 8 Character LCD, 4 + 12-key	400.00
TK-3170K	450-490 MHz 4W, 128 CH / 128 Zone Conventional; 8 Character LCD, 4-key	367.00
TK-3170K4	450-490 MHz 4W, 128 CH / 128 Zone Conventional; 8 Character LCD, 4 + 12-key	417.00
TK-3170K3	400-430 MHz 4W, 128 CH / 128 Zone Conventional; 8 Character LCD, 4-key	367.00
TK-3170K6	400-430 MHz 4W, 128 CH / 128 Zone Conventional; 8 Character LCD, 4 + 12-key	417.00

KENWOOD

ANTENNAS *LIST*

KRA-22M	VHF Low-profile helical antenna 148-162 MHz	13.70
KRA-22M2	VHF Low -profile helical antenna 162-174 MHz	13.70
KRA-22M3	VHF Low-profile helical antenna 136-150 MHz	13.70
KRA-23M	UHF Low-profile helical antenna 450-490 MHz	13.70
KRA-23M2	UHF Low-profile helical antenna 470-512 MHz	13.70
KRA-23M3	UHF Low-profile helical antenna 403-430 MHz	13.70
KRA-26M	VHF helical antenna 146-162 MHz	14.00
KRA-26M2	VHF helical antenna 162-174 MHz	14.00
KRA-26M3	VHF helical antenna 136-150 MHz	14.00
KRA-27M	UHF whip antenna 440-490 MHz	14.00
KRA-27M2	UHF whip antenna 470-520 MHz	14.00
KRA-27M3	UHF whip antenna 400-450 MHz	14.00

BATTERIES AND CHARGERS *LIST*

KBP-5	AA Alkaline Refillable Battery Pack (6 AA; 9V) cells not included	49.00
KNB-55L	1480 mAh, Li-ion battery - requires KSC-25/25L/256K charger	60.00
KNB-56N	1400 mAh, Ni-MH battery	65.00
KNB-57L	2000 mAh, Li-ion battery - requires KSC-25/25L/256K charger	98.00
KNB-40LCV	1950 mAh, Li-ion battery - requires KSC-25/25L/256K charger **[Intrinsically Safe Option]**	112.00
KSC-25L	100~240 volt rapid rate single unit charger for KNB-35L/40LC(V)/55L/57L Li-ion Battery	48.30
KSC-25	110 volt Rapid rate single unit charger for KNB-25A/26N/35L/40LC(V)/55L/56N/57L	62.00
KSC-30	110 volt Regular rate single unit charger for KNB-25A/26N/56N	31.50
KSC-256K	Rapid rate 6-Unit charger for KNB-25A/26N/35L/40LC(V)/55L/56N/57L	630.00
KMB-30M	Wall Mount Bracket for KSC-326K/256K	33.75
KMB-16	Six Unit Charger Adapter for the KSC-16/20/24/25/25L/30 chargers (chargers not included)	173.00
KMB-23	Six Unit Charger Adapter for the KSC-16/20/24/25/25L/32 chargers (chargers not included)	191.00
KVC-3	Vehicular charger adapter for the KSC-15/17/19/25L/30 chargers (chargers not included)	63.00
KVC-4	Vehicular charger adapter for the KSC-16/18/20/24/25 chargers (chargers not included)	84.00

CARRYING ACCESSORIES *LIST*

KLH-138	Heavy-Duty Leather Case w/Swivel Belt Loop for 160/170/173/360 (Non DTMF keypad)	49.00
KLH-139	Heavy-Duty Leather Case w/Swivel Belt Loop for 170/173 (w/ DTMF keypad)	49.00
KBH-12	Spring action belt clip	8.35
KBH-13DS	Leather swivel belt loop with portable D-Ring attachment	28.85
KWR-1	Water resistant bag	29.85

MICROPHONES & AUDIO ACCESSORIES		*LIST*
KMC-48GPS	GPS Speaker Microphone	265.00
KMC-45	MIL-SPEC, IP54/55 Speaker microphone (Built-in 2.5mm miniature earphone jack) **[Intrinsically Safe Approval Accessory]**	86.00
KMC-21	Compact speaker microphone **[Intrinsically Safe Approval Accessory]**	51.50
KEP-2	2.5mm earphone kit for KMC-17/45 Speaker Mic **[Intrinsically Safe Approved Accessory]**	52.50
KHS-10-BH	Hvy-duty noise reduction behind-the-headset w/noise cancelling boom mic & in-line PTT **[Intrinsically Safe Approved Accessory]**	368.00
KHS-10-OH	Hvy-duty noise reduction over-the-headset w/noise cancelling boom mic & in-line PTT **[Intrinsically Safe Approval Accessory]**	336.00
KHS-7	Single muff headset w/boom mic **[Intrinsically Safe Approval Accessory]**	70.00
KHS-7A	Lt. Wt Single muff headset w/boom mic & in-line PTT **[Intrinsically Safe Approval Accessory]**	105.00
KHS-8BL	Two-Wire palm mic w/earphone (black)	103.25
KHS-9BL	Three-Wire lapel mic w/earphone (black)	166.00
KHS-22	Behind-the-Head Headset with flexible boom mic and in-line PTT single ear receiver (low profile wire head band)	41.00
KHS-23	2-Wire Cell-style Earbud Clip/PTT Palm Mic (medium duty)	55.50
KHS-25	Headset w/ D-Ring Ear Hanger w/ PTT & Boom Mic	24.50
KHS-26	Clip Mic w/earphone	28.00
KHS-27	D-Ring Ear Hanger w/PTT & Mic	24.50
KHS-31	C-Ring Ear Hanger w/PTT & Mic	30.00

OPTION MODULES		*LIST*
KCT-57MS	Man-Down Internal Tilt Switch (Non-Mercury) **[Intrinsically Safe Approved Accessory]**- Must be Kenwood installed for I.S. Order **L-1609** for FleetSync® operations	22.00

SERVICE RELATED ACCESSORIES		*LIST*
KPG-101DNK	Windows® Programming Software for TK-2170/3170/3173 (Compliant with FCC Part 90 Narrowbanding) **Note:** Self-programming function is not available.	103.25
KPG-22UM	USB Programming interface cable	158.50

INSTALLATION / TUNING CHARGES		*LIST*
L-836	Assemble KMB-16 with six KSC-25/25L	15.00
L-961	Assemble KMB-23 with six KSC-24/25/25L/32 (Rapid Rate, 120 Volt versions only)	17.00
L-992	TK-2170/3170 Programming (with basic TX/RX check)	37.50
L-1000	Configure TK-2170/3170 for Intrinsically Safe **Must Order an I.S. Battery**	70.00
L-1609	170/173 Portable KCT-57MS Installation (for FleetSync®)	20.00

TK-2180 / 3180
VHF/UHF Trunking & Conventional Portable Radios

GENERAL FEATURES
- 5 W (136-174 MHz) Models
- 5 W (450-520, 400-470 MHz) Models
- Conventional & LTR® Zones
- 12 Character Alphanumeric Aliases
- Backlit Dot Matrix LCD
- 3-Digit Sub-Display
- Function / Status LCD Icons
- RSSI Indicator
- Date & 12/24 Hour Time Clock
- Transmit / Busy / Call Alert / Warn LED
- 4 Front Panel PF keys
- 2 Side PF Keys
- Orange Emergency / AUX Key
- 12-Key DTMF / PF Keypad
- 500 mW Audio Power
- Enhanced Kenwood Audio
- Companded Audio
- VOX Ready
- Voice Inversion Scrambler Built-in
- Encryption / ANI Board Control
- Easy Option Port
- VGS-1 Voice Guide / Storage Option
- Emergency Call Features
- Emergency Man-Down Option
- DTMF Encode / Decode
- Special Alert Tone Patterns
- Call Key
- Time Out Timer
- Busy Channel Lockout
- LCD Battery Status Indicator
- Low Battery Alert
- Battery Saver
- Weather-sealed ACC Connector
- MIL-Spec Speaker Mic Option
- Windows® Programming & Tuning
- Windows® Firmware Uploading
- Front Panel Test/Tune
- Cloning

- MIL-STD-810 C/D/E/F/G
- MIL-STD "Driven-Rain"
- IP-54/55 Water & Dust Intrusion
- Intrinsically Safe Option*

CONVENTIONAL ZONES
- 512 Channels / 128 Zones
- QT / DQT
- Two-Tone Decode
- Single / Two-Tone Encode
- Operator Selectable Tone
- Dual Priority Scan
- Single & Multi-Zone Scan
- List Scan

TRUNKED ZONES
- 512 GID / 128 Zones
- Kenwood LTR® Features

MPT ZONES (option)
- Single-Site Trunking
- Multi-Site Network Trunking
- 8 Network Capacity
- Network Roaming / Registration

FleetSync®
- FleetSync® or FleetSync® II
- PTT ID Digital ANI
- Selective Call & Group Call
- Status Messaging
- Emergency Status
- Caller ID Display
- Short Text Messages
- Power On/Off Status Messages
- PC Serial Interface
- Send/Display GPS (KMC-38GPS)
- PTT ID & Emergency GPS Reporting
- Status Message Block GPS Reporting

MDC-1200

All 180 series portables include:
- Belt Clip (KBH-11)
- Universal Connector Cap
- Instruction Manual
- Premium Warranty: 3 Years*

* All Accessories / options: 1 Year

Order packages to include Battery & Charger, or purchase Battery, Charger, and Antenna separately.

* Approved for Classes I, II & III, Div. 1, Groups C, D, E, F, G and are also approved for non-Incendive use in Class I, Div. 2, Groups A,B, C, D hazardous locations.
Note: Class I, Div 2 Group A & B Gases require use of a portable carrying case.

PACKAGES

		LIST
TK-2180K-NKP	VHF NiMH Battery Package (TK-2180K + KNB-54N + KSC-32 + KBH-11)	700.50
TK-2180K-LKP	VHF Li-Ion Battery Package (TK-2180K + KNB-33L + KSC-32 + KBH-11)	718.00
TK-3180K-NKP	UHF NiMH Battery Package (TK-3180K + KNB-54N + KSC-32 + KBH-11)	717.50
TK-3180K2-NKP	UHF NiMH Battery Package (TK-3180K2 + KNB-54N + KSC-32 + KBH-11)	717.50
TK-3180K-LKP	UHF Li-Ion Battery Package (TK-3180K + KNB-33L + KSC-32 + KBH-11)	735.00
TK-3180K2-LKP	UHF Li-Ion Battery Package (TK-3180K2 + KNB-33L + KSC-32 + KBH-11)	735.00

RADIO		LIST
TK-2180K	136-174 MHz 5W, 512 CH / 128 Zone CONV-& LTR	543.00
TK-2180K2	136-174 MHz 5W, 512 CH / 128 Zone CONV-& LTR with DTMF keypad	595.00
TK-3180K	450-520 MHz 5W, 512 CH / 128 Zone CONV-& LTR	560.00
TK-3180K3	450-520 MHz 5W, 512 CH / 128 Zone CONV-& LTR with DTMF Keypad	613.00
TK-3180K2	400-470 MHz 5W, 512 CH / 128 Zone CONV-& LTR	560.00
TK-3180K4	400-470 MHz 5W, 512 CH / 128 Zone CONV-& LTR with DTMF Keypad	613.00

FACTORY MUTUAL (FM) APPROVED MODELS		LIST
Must Order L-994 & an Intrinsically Safe Battery per radio		
TK-2180-ISK	136-174 MHz 5W, 512 CH / 128 Zone CONV-& LTR	543.00
TK-2180-ISK2	136-174 MHz 5W, 512 CH / 128 Zone CONV-& LTR with DTMF keypad	595.00
TK-3180-ISK	450-520 MHz 5W, 512 CH / 128 Zone CONV-& LTR	560.00
TK-3180-ISK3	450-520 MHz 5W, 512 CH / 128 Zone CONV-& LTR with DTMF Keypad	613.00
TK-3180-ISK2	400-470 MHz 5W, 512 CH / 128 Zone CONV-& LTR	560.00
TK-3180-ISK4	400-470 MHz 5W, 512 CH / 128 Zone CONV-& LTR with DTMF Keypad	613.00

ANTENNAS		LIST
KRA-26M	VHF helical antenna 146-162 MHz	14.00
KRA-26M2	VHF helical antenna 162-174 MHz	14.00
KRA-26M3	VHF helical antenna 136-150 MHz	14.00
KRA-27M	UHF whip antenna 440-490 MHz	14.00
KRA-27M2	UHF whip antenna 470-520 MHz	14.00
KRA-27M3	UHF whip antenna 400-450 MHz	14.00
KRA-22M	VHF low-profile helical antenna 148-162 MHz	13.70
KRA-22M2	VHF low-profile helical antenna 162-174 MHz	13.70
KRA-22M3	VHF Low-profile helical antenna 136-150 MHz	13.70
KRA-23M	UHF low-profile helical antenna 450-490 MHz	13.70
KRA-23M2	UHF low-profile helical antenna 470-512 MHz	13.70
KRA-23M3	UHF low-profile helical antenna 403-430 MHz	13.70
KRA-25	High gain VHF helically loaded whip antenna 148-162 MHz	34.25
KRA-28	Broad-band VHF helically loaded whip antenna 140-170 MHz	42.00

BATTERIES AND CHARGERS		LIST
KNB-54N	2500 mAh, Ni-MH battery - requires KSC-32/326K charger	87.50
KNB-33L	2000 mAh, Li-ion battery - requires KSC-32/326K charger	105.00
KNB-41NC-FM	2500 mAh, Ni-MH battery - requires KSC-32/326K charger **[FM Intrinsically Safe Option]**	136.50
KNB-43L	3300 mAh, Li-Polymer battery - requires KSC-32/326K charger	163.00
KNB-49PL	4500 mAh, Primary Lithium battery **Note**: **Non-Rechargeable** (please recycle all batteries properly) 10 year Shelf Life (approx. 1% charge degradation per year when properly stored: +50 ℉ to +86 ℉ @ less than 70% humidity	84.00
KBP-6	AA Alkaline Refillable Battery Pack (6 AA; 9V) cells not included **Note:** the color of the case is orange	68.50
KSC-32	Rapid rate single unit charger for KNB-31A/32N/33L/41NC/43L/47L/48L/50NC **Note:** Includes 110/220V auto-switching AC adapter with U.S.-style line cord plug; requires plug adapter for 220V Euro-style outlets (not supplied).	70.00
KSC-326K	Rapid rate 6-unit charger for KNB-31A/32N/33L/41NC/43L/47L/48L/50NC	630.00
KMB-30M	Wall Mount Bracket for KSC-326K/256K	33.75
KMB-23	Six Unit Charger Adapter for the KSC-16/20/24/25/25L/32 chargers (chargers not included)	191.00

BATTERIES AND CHARGERS - CONT'D | LIST

KVC-15	Rapid rate DC vehicular charger adapter for the KSC-32 (chargers not included; includes KSC-mobile bracket & cigarette lighter cable DC adapter)	119.00
KVC-18	Vehicular D.C. Charger for 180/5*10 Portables with NiCd or NiMH Battery	446.50
KVC-20L	Vehicular D.C. Charger for 180/5**0/, NX Portables with Li-ion or Li Polymer Battery	497.00

CARRYING ACCESSORIES | LIST

KBH-10	Low profile spring action belt clip (for use with KNB-33L Only)	8.35
KBH-11	Spring action belt clip (2.5")	14.70
KBH-8DS	Leather swivel belt loop with portable D-Ring attachment	26.30
KLH-6SW	Leather swivel belt loop / detachable swivel D-Ring back	22.00
KLH-122	Heavy duty leather carrying case for TK-2180/3180 (Non DTMF keypad models)	44.25
KLH-123	Heavy duty leather carrying case for TK-2180/3180 (DTMF keypad models)	44.25
KLH-124	Cordura Nylon carrying case for TK-2180/3180 (Non DTMF keypad models)	26.30
KLH-125	Cordura Nylon carrying case for TK-2180/3180 (DTMF keypad models)	26.30
KLH-137ST	Firemen's Heavy-Duty Leather Shoulder Strap for a Heavy-Duty Leather Case (KLH-75B/76B/78B/79B//92/122/123/133/148/154)	36.75
KWR-1	Water resistant bag	29.85

MICROPHONES & AUDIO ACCESSORIES | LIST

KMC-51M	MIL-SPEC, IP54/55 DSP Digital Noise-canceling Speaker Mic **[see note 1]**	250.00
KMC-52W	MIL-SPEC, IP67 (Immersion) DSP Digital Noise-canceling Speaker Mic **[see note 1]** **Note**: Radio does not have an IP67 Immersion option; meets MIL STD810 rain standards	300.00
	[note 1]: To adjust microphone settings different from factory default, download KPG-147NC configuration software and special configuration firmware from Kenwood Tools (no charge).	
KMC-47GPS	GPS Speaker Microphone	290.00
KMC-40	MIL-SPEC, Speaker Mic. with Antenna Connector **Note**: 5/16" Coax cable hex wrench included (antenna is not included).	250.00
KMC-41M	MIL-SPEC, IP54/55 Noise-canceling Speaker Mic **[Intrinsically Safe Approved Accessory]**	96.50
KMC-42WM	MIL-SPEC, IP67 (Immersion) Noise-canceling Speaker Mic **[Intrinsically Safe Approved Accessory]** **Note:** Radio does not have an IP67 Immersion option; meets MIL STD810 rain standards	114.00
KEP-1	3.5mm earphone kit for KMC-25/26/41M/42WM Speaker Mics **[Intrinsically Safe Approved Accessory]**	52.50
KCT-30	2.5mm Audio Accessory Adapter for KEP-3/4 **[Intrinsically Safe Approved Accessory]**	64.00
KCT-51	Hirose 6-pin Adapter (adapts KVL/aftermarket audio acc. to portable connector) **[Intrinsically Safe Approved Accessory]**	215.00
KEP-3	30" Earphone kit w/ 2.5mm plug for KCT-30 **[Intrinsically Safe Approved Accessory]**	51.50
KEP-4	48" Earphone kit w/ 2.5mm plug for KCT-30 **[Intrinsically Safe Approved Accessory]**	54.75
KHS-11BE	2-wire palm mic w/earphone, universal connector (Beige) **[Intrinsically Safe Approved Accessory]**	156.50
KHS-11BL	2-wire palm mic w/earphone, universal connector (Black) **[Intrinsically Safe Approved Accessory]**	156.50
KHS-12BE	3-wire mini lapel mic w/earphone, universal connector (Beige) **[Intrinsically Safe Approved Accessory]**	184.00
KHS-12BL	3-wire mini lapel mic w/earphone, universal connector (Black) **[Intrinsically Safe Approved Accessory]**	184.00
KHS-14	Lt. Wt. Single muff headset w/boom mic & In-line PTT **[Intrinsically Safe Approved Accessory]**	126.00
KHS-15-BH	Hvy-duty noise reduction behind-the-headset w/noise cancelling boom mic & in-line PTT **[Intrinsically Safe Approved Accessory]**	420.00
KHS-15-OH	Hvy-duty noise reduction over-the-headset w/noise cancelling boom mic & in-line PTT **[Intrinsically Safe Approved Accessory]**	368.00

OPTION MODULES		LIST
KCT-48VU	External Vibration Unit **[Intrinsically Safe Approved Accessory]** **Note:** Audio accessories cannot be used when this option installed.	49.00
KCT-57MS	Man-Down Internal Tilt Switch (Non-Mercury) **[Intrinsically Safe Approved Accessory]**- Must be Kenwood installed for I.S. Order **L-1610** for CIM-1000, K-20, K-26 & **L-1611** for FleetSync® operations	22.00
VGS-1	Voice Guide and Storage Unit **[Intrinsically Safe Approved Accessory]**	87.50

FRIMWARE OPTIONS		LIST
KWD-180TFS	TFS-- Tactical Feature Set-- Field Upgrade Kit for 180-Series Must order **L-1624** **Note**: Refer to 180-Series "Tactical Feature Set" In-Depth Technical Manual for feature details (available from technical support). Not compatible with any other firmware options.	105.00

SERVICE RELATED ACCESSORIES		LIST
KPG-36UM	USB Programming interface cable	158.50
KPG-89DNK	Windows® Programming Software for TK-2180/3180/7180/8180 (Compliant with FCC Part 90 Narrowbanding) **Note:** Self-programming & Tactical Feature Set* functions are not available. *** KPG-89DK is required for Tactical Feature Set. KPG-89DK is no longer supported or distributed by Kenwood**	103.25

INSTALLATION / TUNING CHARGES		LIST
L-961	Assemble KMB-23 with six KSC-32K's (Rapid Rate, 120 Volt version only)	17.00
L-962	Install VGS-1 Voice Guide & Storage Unit **Note**: VGS-1 installation precludes any ANI or encryption board installation	25.00
L-963	TK-2180/3180 Programming (with basic TX/RX check)	37.50
L-994	Configure TK-2180-IS/3180-IS for Intrinsically Safe **Must order an I.S. battery, KNB-41NC-FM**	70.00
L-1051	TK-2180/3180 TFS INSTALLATION **Note:** KPG-89DK is required to program the TFS (Tactical Feature Set). KPG-89DK is no longer supported or distributed by Kenwood. TFS will not workwith KPG-89DNK.	100.00
L-1611	180 Portable KCT-57MS Installation (for FleetSync®)	20.00
L-1619	180 Portable KWD-180MPT FIELD-UPGRADE (Must purchase KWD-180MPT separately)	NC
L-1624	180 Portable KWD-180TFS FIELD-UPGRADE (Must purchase KWD-180TFS separately)	NC

MPT FIRMWARE/ACCESSORIES/TUNING		LIST
KWD-180MPT	MPT Trunking Field Upgrade Kit for 180-Series Must order **L-1619** **Note:** Refer to 180-Series MPT Price Pages and 180-Series MPT In-Depth Technical Manuals for feature details (available from technical support). Not compatible with any other firmware options Radio does not retain all normal 180-Series conventional or LTR trunking features once the MPT option is installed.	43.75
L-1012	Install MPT option in 180-Series radio	16.67
L-1013	Network Level License ID for KPG-96D(N) 180-Series Programmer	158.33
L-1014	Retrofit Install of MPT option in 180-Seires radio For previously purchased 180-Series radios. Order L-1014 through LMR order desk/rep. Ship radios to attn: Kenwood LMR Tuning, Long Beach for installation. Include Kenwood order number for L-1014 provided by order desk & copy of company P.O. or P.O. number. **Note:** Only certain Serial Number Lots produced in late 2004 and later can be retrofitted - see 180-Series MPT Introduction Sales Bulletin for details	85.00
L-1061	Install KCT-57MS (for MPT Emergency Call)	20.00

TK-3173
UHF Trunking & Conventional Compact Portable Radio

All 173 series portables include:
• Belt Clip (KBH-12)
• 2-PIN Connector Cap
• Instruction Manual
• Standard Warranty: 2 Years*

* All Accessories / options: 1 Year

Order packages to include Battery, Charger & Antenna, or purchase Battery, Charger, and Antenna separately.

GENERAL FEATURES
• 4 W, 450-490 MHz
• Conventional & LTR® Zones
• 8 Character Alphanumeric Aliases
• Backlit LCD
• Function / Status LCD Icons
• Transmit / Busy / Call Alert / Warn LED
• 4 Front Panel PF keys
• 3 Side PF Keys
• Orange Emergency / AUX Key
• 500 mW Audio Power
• Enhanced Kenwood Audio
• Companded Audio
• Encryption / ANI Board Control
• Easy Option Port (20-Pin)
• Emergency Call Features
• Emergency Man-Down Option
• QT / DQT
• DTMF Encode / Decode
• Special Alert Tone Patterns
• Call Key
• Time Out Timer
• Busy Channel Lockout
• LCD Battery Status Indicator
• Low Battery Alert
• Weather-sealed ACC Connector
• Speaker Mic Options
• Windows® Programming & Tuning
• Windows® Firmware Uploading
• Field Programming & Tuning
• Cloning

• MIL-STD-810 C/D/E/F/G
• MIL-STD "Driven-Rain"
• IP-54/55 Water & Dust Intrusion
• Intrinsically Safe Option*

CONVENTIONAL ZONES
• 128 Channels / 128 Zones
• QT / DQT
• Two-Tone Decode
• Single / Two-Tone Encode
• Operator Selectable Tone
• Single Priority Scan
• Single & Multi-Zone Scan
• List Scan
• Voice Inversion Scrambler Built-in
• VOX Ready
• Battery Saver

TRUNKED ZONES
• 250 GID / 128 Zones
• Kenwood LTR® Features

FleetSync®
• PTT ID Digital ANI
• Selective Call & Group Call
• Status Messaging
• Emergency Status
• Caller ID Display
• Short Text Messages
• PC Serial Interface

--- Must Order **L-1000** for Intrinsically Safe Option ---

* Approved for Classes I, II & III, Div. 1, Groups C, D, E, F, G and are also approved for non-Incendive use in Class I, Div. 2, Groups A, B, C, D hazardous locations.

Li-ion VALUE PACKAGES			LIST
TK-3173-SLKVP	Li-ion Value Pack	(TK-3173K + KNB-55L + KSC-25L + KRA-27M)	521.30
TK-3173-LKVP	Hi-Cap Li-ion Value Pack	(TK-3173K + KNB-57L + KSC-25L + KRA-27M)	559.30

PACKAGES			LIST
TK-3173-NKP	Basic Package	(TK-3173K + KNB-56N + KSC-30 + KRA-27M)	509.50
TK-3173-SLKP	Standard Slim Package	(TK-3173K + KNB-55L + KSC-25 + KRA-27M)	535.00
TK-3173-LKP	Premium Package	(TK-3173K + KNB-57L + KSC-25 + KRA-27M)	573.00

RADIO		LIST
TK-3173K	450-490 MHz 4W, 128 CH / 128 Zone Conventional; 8 Character LCD, 4-key	399.00
TK-3173K4	450-490 MHz 4W, 128 CH / 128 Zone Conventional; 8 Character LCD, 4 + 12-key	448.00

ANTENNAS		LIST
KRA-23M	UHF Low-profile helical antenna 450-490 MHz	13.70
KRA-27M	UHF whip antenna 440-490 MHz	14.00

BATTERIES AND CHARGERS		LIST
KBP-5	AA Alkaline Refillable Battery Pack (6 AA; 9V) cells not included	49.00
KNB-55L	1480 mAh, Li-ion battery - requires KSC-25/25L/256K charger	60.00
KNB-56N	1400 mAh, Ni-MH battery	65.00
KNB-57L	2000 mAh, Li-ion battery - requires KSC-25/25L/256K charger	98.00
KNB-40LCV	1950 mAh, Li-ion battery - requires KSC-25/25L/256K charger **[Intrinsically Safe Option]**	112.00
KSC-25L	100~240 volt rapid rate single unit charger for KNB-35L/40LC(V)/55L/57L Li-ion Battery	48.30
KSC-25	110 volt Rapid rate single unit charger for KNB-25A/26N/35L/40LC(V)/55L/56N/57L	62.00
KSC-30	110 volt Regular rate single unit charger for KNB-25A/26N/56N	31.50
KSC-256K	Rapid rate 6-Unit charger for KNB-25A/26N/35L/40LC(V)/55L/56N/57L	630.00
KMB-30M	Wall Mount Bracket for KSC-326K/256K	33.75
KMB-16	Six Unit Charger Adapter for the KSC-16/20/24/25/25L/30 chargers (chargers not included)	173.00
KMB-23	Six Unit Charger Adapter for the KSC-16/20/24/25/25L/32 chargers (chargers not included)	191.00
KVC-3	Vehicular charger adapter for the KSC-15/17/19/25L/30 chargers (chargers not included)	63.00
KVC-4	Vehicular charger adapter for the KSC-16/18/20/24/25 chargers (chargers not included)	84.00

CARRYING ACCESSORIES		LIST
KLH-138	Heavy-Duty Leather Case w/Swivel Belt Loop for 160/170/173/360 (Non DTMF keypad)	49.00
KLH-139	Heavy-Duty Leather Case w/Swivel Belt Loop for 170/173 (w/ DTMF keypad)	49.00
KBH-12	Spring action belt clip	8.35
KBH-13DS	Leather swivel belt loop with portable D-Ring attachment	28.85
KWR-1	Water resistant bag	29.85

MICROPHONES & AUDIO ACCESSORIES		LIST
KMC-48GPS	GPS Speaker Microphone	265.00
KMC-45	MIL-SPEC, IP54/55 Speaker microphone (Built-in 2.5mm miniature earphone jack) **[Intrinsically Safe Approval Accessory]**	86.00
KMC-21	Compact speaker microphone **[Intrinsically Safe Approval Accessory]**	51.50
KEP-2	2.5mm earphone kit for KMC-17/45 Speaker Mic **[Intrinsically Safe Approved Accessory]**	52.50
KHS-10-BH	Hvy-duty noise reduction behind-the-headset w/noise cancelling boom mic & in-line PTT **[Intrinsically Safe Approved Accessory]**	368.00
KHS-10-OH	Hvy-duty noise reduction over-the-headset w/noise cancelling boom mic & in-line PTT **[Intrinsically Safe Approval Accessory]**	336.00
KHS-7	Single muff headset w/boom mic **[Intrinsically Safe Approval Accessory]**	70.00
KHS-7A	Lt. Wt Single muff headset w/boom mic & in-line PTT **[Intrinsically Safe Approval Accessory]**	105.00
KHS-8BL	Two-Wire palm mic w/earphone (black)	103.25
KHS-9BL	Three-Wire lapel mic w/earphone (black)	166.00
KHS-22	Behind-the-Head Headset with flexible boom mic and in-line PTT single ear receiver (low profile wire head band)	41.00
KHS-23	2-Wire Cell-style Earbud Clip/PTT Palm Mic (medium duty)	55.50
KHS-25	Headset w/ D-Ring Ear Hanger w/ PTT & Boom Mic	24.50
KHS-26	Clip Mic w/earphone	28.00
KHS-27	D-Ring Ear Hanger w/PTT & Mic	24.50
KHS-31	C-Ring Ear Hanger w/PTT & Mic	30.00

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OPTION MODULES		*LIST*
KCT-57MS	Man-Down Internal Tilt Switch (Non-Mercury) **[Intrinsically Safe Approved Accessory]**- Must be Kenwood installed for I.S. Order **L-1609** for FleetSync® operations	22.00

SERVICE RELATED ACCESSORIES		*LIST*
KPG-101DNK	Windows® Programming Software for TK-2170/3170/3173 (Compliant with FCC Part 90 Narrowbanding) **Note:** Self-programming function is not available.	103.25
KPG-22UM	USB Programming interface cable	158.50

INSTALLATION / TUNING CHARGES		*LIST*
L-836	Assemble KMB-16 with six KSC-25/25L	15.00
L-961	Assemble KMB-23 with six KSC-24/25/25L/32 (Rapid Rate, 120 Volt versions only)	17.00
L-993	TK-3173 Programming (with basic TX/RX check)	37.50
L-1001	Configure TK-3173 for Intrinsically Safe	70.00
L-1609	170/173 Portable KCT-57MS Installation (for FleetSync®)	20.00

TK-2360 / 3360
Compact VHF / UHF FM Portable Radios

GENERAL FEATURES
- 5W (136-174 MHz)
- 5W (450-520, 400-470 MHz)
- 16 Conventional Channels
- Single Priority / Normal Scan
- Transmit / Busy / Call Alert / Scan / Warn LED
- 4-Color LED (Blue/Red/Green/Orange)
- 3 PF Keys (w/Hold Function)
- Orange Emergency / AUX Key
- 500 mW Audio Power
- Enhanced Kenwood Audio
- Companded Audio (per CH)
- Voice CH# Announcement
- VOX ready
- Voice Inversion Scrambler Built-in
- 16 Scrambler Codes (per CH)
- Emergency Call Features
- Emergency Man-Down Option
- Lone Worker Alert
- QT / DQT
- Two-Tone Decode
- Single / Two-Tone Encode
- DTMF Encode / Decode

- Special Alert Tone Pattern
- Time Out Timer
- Busy Channel Lockout
- Low Battery Warning
- Battery Saver
- Windows Programming & Tuning
- Password Protection
- MIL-STD-810 C/D/E/F/G
- IP-54/55 Water & Dust Intrusion
- Intrinsically Safe Option*

FleetSync®
- PTT ID Digital ANI
- Selective Call & Group Call
- Paging Call
- Status Messaging
- Emergency Status

MDC-1200
- PTT ID Digital ANI
- Emergency Status
- Radio Check
- Radio Inhibit

All 360 series portables include:
- Belt Clip (KBH-12)
- 2-PIN Connector Cap
- Instruction Manual
- Standard Warranty: 2 Years*

* All Accessories / options: 1 Year

Order packages to include Battery, Charger & Antenna, or purchase Battery, Charger, and Antenna separately.

--- Must Order **L-1716** for Intrinsically Safe Option ---

* Approved for Classes I, II & III, Div. 1, Groups C, D, E, F, G and are also approved for non-Incendive use in Classes I, II & III, Div. 2, Groups A, B, C, D, F, G hazardous locations.

Li-ion VALUE PACKAGES			LIST
TK-2360-SLKVP	VHF Li-ion Value Pack	(TK-2360K + KNB-55L + KSC-25L + KRA-26M)	333.30
TK-2360-LKVP	VHF Hi-Cap Li-ion Value Pack	(TK-2360K + KNB-57L + KSC-25L + KRA-26M)	371.30
TK-3360-SLKVP	UHF Li-ion Value Pack	(TK-3360K + KNB-55L + KSC-25L + KRA-27M)	349.80
TK-3360-LKVP	UHF Hi-Cap Li-ion Value Pack	(TK-3360K + KNB-57L + KSC-25L + KRA-27M)	387.80

PACKAGES			LIST
TK-2360-NKP	VHF Basic Package	(TK-2360K + KNB-56N + KSC-30 + KRA-26M)	321.50
TK-2360-SLKP	VHF Standard Slim Package	(TK-2360K + KNB-55L + KSC-25 + KRA-26M)	347.00
TK-2360-LKP	VHF Premium Package	(TK-2360K + KNB-57L + KSC-25 + KRA-26M)	385.00
TK-3360-NKP	UHF Basic Package	(TK-3360K + KNB-56N + KSC-30 + KRA-27M)	338.00
TK-3360-SLKP	UHF Standard Slim Package	(TK-3360K + KNB-55L + KSC-25 + KRA-27M)	363.50
TK-3360-LKP	UHF Premium Package	(TK-3360K + KNB-57L + KSC-25 + KRA-27M)	401.50

RADIO		LIST
TK-2360K	136-174 MHz 5W, 16 CH Conventional	211.00
TK-3360K	450-520 MHz 5W, 16 CH Conventional	227.50
TK-3360K2	400-470 MHz 5W, 16 CH Conventional	227.50

SGS US I.S. APPROVED MODELS		LIST
Must Order L-1716 & an Intrinsically Safe Battery per radio		
TK-2360-ISK	136-174 MHz 5W, 16 CH Conventional	211.00
TK-3360-ISK	450-520 MHz 5W, 16 CH Conventional	227.50
TK-3360-ISKK2	400-470 MHz 5W, 16 CH Conventional	227.50

ANTENNAS   *LIST*

KRA-22M	VHF Low-profile helical antenna 148-162 MHz	13.70
KRA-22M2	VHF Low -profile helical antenna 162-174 MHz	13.70
KRA-22M3	VHF Low-profile helical antenna 136-150 MHz	13.70
KRA-23M	UHF Low-profile helical antenna 450-490 MHz	13.70
KRA-23M2	UHF Low-profile helical antenna 470-512 MHz	13.70
KRA-23M3	UHF Low-profile helical antenna 403-430 MHz	13.70
KRA-26M	VHF helical antenna 146-162 MHz	14.00
KRA-26M2	VHF helical antenna 162-174 MHz	14.00
KRA-26M3	VHF helical antenna 136-150 MHz	14.00
KRA-27M	UHF whip antenna 440-490 MHz	14.00
KRA-27M2	UHF whip antenna 470-520 MHz	14.00
KRA-27M3	UHF whip antenna 400-450 MHz	14.00

BATTERIES AND CHARGERS   *LIST*

KBP-5	AA Alkaline Refillable Battery Pack (6 AA; 9V) cells not included	49.00
KNB-40LCV	1950 mAh, Li-ion battery - requires KSC-25/25L/256K charger **[Intrinsically Safe Option]**	112.00
KNB-55L	1480 mAh, Li-ion battery - requires KSC-25/25L/256K charger	60.00
KNB-56N	1400 mAh, Ni-MH battery	65.00
KNB-57L	2000 mAh, Li-ion battery - requires KSC-25/25L/256K charger	98.00
KSC-25L	100~240 volt rapid rate single unit charger for KNB-35L/40LC(V)/55L/57L Li-ion Battery	48.30
KSC-25	110 volt Rapid rate single unit charger for KNB-25A/26N/35L/40LC(V)/55L/56N/57L	62.00
KSC-30	110 volt Regular rate single unit charger for KNB-25A/26N/56N	31.50
KSC-256K	Rapid rate 6-Unit charger for KNB-25A/26N/35L/40LC(V)/55L/56N/57L	630.00
KMB-30M	Wall Mount Bracket for KSC-326K/256K	33.75
KMB-16	Six Unit Charger Adapter for the KSC-16/20/24/25/25L/30 chargers (chargers not included)	173.00
KMB-23	Six Unit Charger Adapter for the KSC-16/20/24/25/25L/32 chargers (chargers not included)	191.00
KVC-3	Vehicular charger adapter for the KSC-15/17/19/25L/30 chargers (chargers not included)	63.00
KVC-4	Vehicular charger adapter for the KSC-16/18/20/24/25 chargers (chargers not included)	84.00

CARRYING ACCESSORIES   *LIST*

KLH-138	Heavy-Duty Leather Case w/Swivel Belt Loop for 160/170/173/360 (Non DTMF keypad)	49.00
KBH-12	Spring action belt clip	8.35
KBH-13DS	Leather swivel belt loop with portable D-Ring attachment	28.85
KWR-1	Water resistant bag	29.85

MICROPHONES & AUDIO ACCESSORIES		*LIST*
KMC-48GPS	GPS Speaker Microphone **[Intrinsically Safe Approval Accessory]**	265.00
KMC-45	MIL-SPEC, IP54/55 Speaker microphone (Built-in 2.5mm miniature earphone jack) **[Intrinsically Safe Approval Accessory]**	86.00
KMC-21	Compact speaker microphone **[Intrinsically Safe Approval Accessory]**	51.50
KEP-2	2.5mm earphone kit for KMC-17/45 Speaker Mic **[Intrinsically Safe Approval Accessory]**	52.50
KHS-10-BH	Hvy-duty noise reduction behind-the-headset w/noise cancelling boom mic & in-line PTT **[Intrinsically Safe Approval Accessory]**	368.00
KHS-10-OH	Hvy-duty noise reduction over-the-headset w/noise cancelling boom mic & in-line PTT **[Intrinsically Safe Approval Accessory]**	336.00
KHS-7	Single muff headset w/boom mic **[Intrinsically Safe Approval Accessory]**	70.00
KHS-7A	Lt. Wt Single muff headset w/boom mic & in-line PTT **[Intrinsically Safe Approval Accessory]**	105.00
KHS-8BL	Two-Wire palm mic w/earphone (black)	103.25
KHS-9BL	Three-Wire lapel mic w/earphone (black)	166.00
KHS-22	Behind-the-Head Headset with flexible boom mic and in-line PTT single ear receiver (low profile wire head band)	41.00
KHS-23	2-Wire Cell-style Earbud Clip/PTT Palm Mic (medium duty)	55.50
KHS-25	Headset w/ D-Ring Ear Hanger w/ PTT & Boom Mic	24.50
KHS-26	Clip Mic w/earphone	28.00
KHS-27	D-Ring Ear Hanger w/PTT & Mic	24.50
KHS-31	C-Ring Ear Hanger w/PTT & Mic	30.00

OPTION MODULES		*LIST*
KCT-57MS	Man-Down Internal Tilt Switch (Non-Mercury) **[Intrinsically Safe Approved Accessory]**- Must be Kenwood installed for I.S. Order **L-1679** for FleetSync® operations	22.00

SERVICE RELATED ACCESSORIES		*LIST*
KPG-128DNK	Windows® Programming Software for TK-2360/3360 (Compliant with FCC Part 90 Narrowbanding)	103.25
KPG-22UM	USB Programming interface cable	158.50

INSTALLATION / TUNING CHARGES		*LIST*
L-836	Assemble KMB-16 with six KSC-25/25L	15.00
L-961	Assemble KMB-23 with six KSC-24/25/25L/32 (Rapid Rate, 120 Volt versions only)	17.00
L-1678	TK-2360/3360 Programming (with basic TX/RX check)	37.50
L-1679	TK-2360/3360 Portable KCT-57MS Installation (for FleetSync®/MDC)	20.00
L-1716	Configure TK-2360/3360 for Intrinsically Safe **Must Order an I.S. Battery**	70.00

TK-2312 / 3312
VHF/UHF Conventional Portable Radios

All 312 series portables include:
• Li-ion Battery (KNB-45L)
• Fast Charger (KSC-35SK)
• Antenna [KRA-26M (VHF)/27M (UHF)]
• Belt Clip (KBH-10)
• 2-PIN Connector Cap
• Instruction Manual
• Standard Warranty: 2 Years*

* All Accessories / options: 1 Year

GENERAL FEATURES
• 5 W (136-174 MHz) Model
• 5 W (450-520, 400-470 MHz) Models
• Conventional Zones
• 128 Channels / 128 Zones
• Single Priority Scan
• Single & Multi-Zone Scan
• 8 Character Alphanumeric Aliases
• Backlit LCD
• Function / Status LCD Icons
• RSSI Indicator
• Transmit / Busy / Call Alert / Warn LED
• 4-Color LED (Blue/Red/Green/Orange)
• 7 Front Panel PF keys
• 2 Side PF Keys
• 500 mW Audio Power
• Enhanced Kenwood Audio
• Companded Audio (per CH)
• VOX Ready
• Voice Inversion Scrambler Built-in
• 16 Scrambler Codes (per CH)
• Emergency Call Features
• Lone Worker Alert
• QT / DQT
• Two-Tone Decode
• Single / Two-Tone Encode
• Operator Selectable Tone
• DTMF Encode / Decode
• FleetSync®/MDC-1200 (per Zone)

• Special Alert Tone Pattern
• Call Key
• Time Out Timer
• Busy Channel Lockout
• LCD Battery Status Indicator
• Low Battery Alert
• Battery Saver
• Windows® Programming & Tuning
• Wireless Cloning
• Password Protection
• MIL-STD-810 C/D/E/F/G
• IP-54/55 Water & Dust Intrusion

FleetSync®
• PTT ID Digital ANI
• Selective Call & Group Call
• Status Messaging
• Emergency Status
• Caller ID Display
• Short Text Messages
• Send GPS Data (KMC-48GPS)
• PTT ID & Emergency GPS Reporting
• Status Message Block GPS Reporting

MDC-1200
• PTT ID Digital ANI
• Caller ID Display
• Emergency Status
• Radio Check
• Radio Inhibit

RADIO		LIST
TK-2312K	136-174 MHz VHF 5W, 128 Ch. [1]	350.00
TK-3312K	450-520 MHz UHF 5W, 128 Ch. [2]	350.00
TK-3312K2	400-470 MHz UHF 5W, 128 Ch. [2]	350.00

[1] Comes with KRA-26M 146-162 MHz antenna specify other if needed
[2] Comes with KRA-27M 440-490 MHz antenna; specify other if needed

ANTENNAS		LIST
KRA-16M	VHF stubby antenna 148-162 MHz	13.70
KRA-16M2	VHF stubby antenna 162-174 MHz	13.70
KRA-16M3	VHF stubby antenna 136-150 MHz	13.70
KRA-17M	UHF stubby antenna 450-490 MHz	13.70
KRA-17M2	UHF stubby antenna 470-512 MHz	13.70
KRA-17M3	UHF stubby antenna 403-430 MHz	13.70
KRA-22M	VHF Low-profile helical antenna 148-162 MHz	13.70
KRA-22M2	VHF Low -profile helical antenna 162-174 MHz	13.70
KRA-22M3	VHF Low-profile helical antenna 136-150 MHz	13.70
KRA-23M	UHF Low-profile helical antenna 450-490 MHz	13.70
KRA-23M2	UHF Low-profile helical antenna 470-512 MHz	13.70
KRA-23M3	UHF Low-profile helical antenna 403-430 MHz	13.70
KRA-26M	VHF helical antenna 146-162 MHz	14.00
KRA-26M2	VHF helical antenna 162-174 MHz	14.00
KRA-26M3	VHF helical antenna 136-150 MHz	14.00
KRA-27M	UHF whip antenna 440-490 MHz	14.00
KRA-27M2	UHF whip antenna 470-520 MHz	14.00
KRA-27M3	UHF whip antenna 400-450 MHz	14.00

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BATTERIES AND CHARGERS		*LIST*
KNB-45L	2000 mAh, Li-ion battery - requires KSC-35K/E/SK charger	63.00
KNB-29N	1500 mAh, NiMH battery - requires KSC-31K/E charger	36.75
KSC-35SK	110~220 volt Fast rate single unit charger for KNB-45L Li-ion battery	31.50
KSC-31K	110 volt Fast rate single unit charger for KNB-29N	31.50
KMB-28	Six Unit Charger Adapter for the KSC-23BK/28/35SK chargers (chargers not included) **Note:** The six KSC-xx AC wall Adapters are NOT used in the KMB-28 installation A supplied in-line AC-DC switching power supply with six DC plugs supply the six installed KSC-xx charger bases. This unit is lower profile and less weight than similar Kenwood six unit charger adapters. Dimensions: 10.6(W) x 2.4(H) x 9.5(D) inches, Weight: approx. 10 lbs. (loaded with chargers/radios)	208.50
KVC-22	110~220 volt Fast rate DC vehicular charger adapter for KSC-35SK charger & KNB-45L Li-ion battery (charger not included)	36.70

CARRYING ACCESSORIES		*LIST*
KBH-10	Spring action belt clip	8.35
KBH-8DS	Leather swivel belt loop with portable D-Ring attachment	26.30
KLH-6SW	Leather swivel belt loop / detachable swivel D-Ring back	22.00
KLH-178	Heavy duty leather carrying case for TK-2312/3312	44.25
KWR-1	Water resistant bag	29.85

MICROPHONES & AUDIO ACCESSORIES		*LIST*
KMC-48GPS	GPS Speaker Microphone	265.00
KMC-45	MIL-SPEC, IP54/55 Speaker microphone (Built-in 2.5mm miniature earphone jack)	86.00
KMC-21	Compact speaker microphone	51.50
KEP-2	2.5mm earphone kit for KMC-17/45 Speaker Mic	52.50
KHS-10-BH	Hvy-duty noise reduction behind-the-headset w/noise cancelling boom mic & in-line PTT	368.00
KHS-10-OH	Hvy-duty noise reduction over-the-headset w/noise cancelling boom mic & in-line PTT	336.00
KHS-7	Single muff headset w/boom mic	70.00
KHS-7A	Lt. Wt Single muff headset w/boom mic & in-line PTT	105.00
KHS-8BL	Two-Wire palm mic w/earphone (black)	103.25
KHS-9BL	Three-Wire lapel mic w/earphone (black)	166.00
KHS-22	Behind-the-Head Headset with flexible boom mic and in-line PTT single ear receiver (low profile wire head band)	41.00
KHS-23	2-Wire Cell-style Earbud Clip/PTT Palm Mic (medium duty)	55.50
KHS-25	Headset w/ D-Ring Ear Hanger w/ PTT & Boom Mic	24.50
KHS-26	Clip Mic w/earphone	28.00
KHS-27	D-Ring Ear Hanger w/PTT & Mic	24.50
KHS-31	C-Ring Ear Hanger w/PTT & Mic	30.00

SERVICE RELATED ACCESSORIES		*LIST*
KPG-22UM	USB Programming interface cable	158.50
KPG-134DNK	Windows® Programming Software for TK-2312/3312 (Compliant with FCC Part 90 Narrowbanding) **Note:** Self-programming function is not available.	103.25

INSTALLATION / TUNING CHARGES		*LIST*
L-1688	TK-2312/3312 Programming (with basic TX/RX check)	37.50

TK-2400 / 3400
VHF/UHF Conventional Portable Radios

GENERAL FEATURES
• 2 W (136-174 MHz) VHF
• 2 W (450-520 MHz) UHF
• 4 & 16 Channel Models
• Single Priority / Normal Scan
• Transmit / Busy / Call Alert Scan / Warn LED
• 4-Color LED (Blue/Red/Green/Orange)
• 2 PF Keys
• 1.0 W Speaker Audio
• Enhanced Kenwood Audio
• Companded Audio (per CH)
• Voice Annunciation
• VOX Ready
• Voice Inversion Scrambler Built-in
• 16 Scrambler Codes (per CH)
• Emergency Call Features
• Lone Worker Alert (per CH)
• QT / DQT
• Two-Tone Decode
• Single / Two-Tone Encode
• DTMF Encode / Decode

• Special Alert Tone Pattern
• Time Out Timer
• Busy Channel Lockout
• Low Battery Warning
• Battery Saver
• Windows® Programming & Tuning
• Wireless Cloning
• Password Protection
• MIL-STD-810 C/D/E/F/G
• IP-54/55 Water & Dust Intrusion

FleetSync®
• PTT ID Digital ANI
• Selective Call & Group Call
• Paging Call
• Emergency Status
• Send GPS Data (KMC-48GPS)

MDC-1200
• PTT ID Digital ANI
• Emergency Status
• Radio Check
• Radio Inhibit

All 400 series portables include:
• Li-ion Battery (KNB-45L)
• Fast Charger (KSC-35SK)
• Antenna [KRA-26M(VHF)/27M(UHF)]
• Belt Clip (KBH-10)
• 2-PIN Connector Cap
• Instruction Manual
• Standard Warranty: 2 Years*

* All Accessories / options: 1 Year

RADIO		*LIST*
TK-2400K	136-174 MHz VHF 2W, 4 Ch.	250.00
TK-2400K2	136-174 MHz VHF 2W, 16 Ch.	267.00
TK-3400K	450-520 MHz UHF 2W, 4 Ch.	267.00
TK-3400K2	450-520 MHz UHF 2W, 16 Ch.	284.00

ANTENNAS		*LIST*
KRA-41M	VHF stubby antenna 148-162 MHz	13.70
KRA-41M2	VHF stubby antenna 162-174 MHz	13.70
KRA-41M3	VHF stubby antenna 136-150 MHz	13.70
KRA-42M	UHF stubby antenna 440-490 MHz	13.70
KRA-42M2	UHF stubby antenna 470-520 MHz	13.70
KRA-22M	VHF low profile antenna 148-162 MHz	13.70
KRA-22M2	VHF low profile antenna 162-174 MHz	13.70
KRA-22M3	VHF Low-profile helical antenna 136-150 MHz	13.70
KRA-23M	UHF low profile antenna 450-490 MHz	13.70
KRA-23M2	UHF low profile antenna 470-520 MHz	13.70
KRA-26M	VHF helical antenna 146-162 MHz	14.00
KRA-26M2	VHF helical antenna 162-174 MHz	14.00
KRA-26M3	VHF helical antenna 136-150 MHz	14.00
KRA-27M	UHF whip antenna 440-490 MHz	14.00
KRA-27M2	UHF whip antenna 470-520 MHz	14.00

BATTERIES AND CHARGERS		*LIST*
KNB-45L	2000 mAh, Li-ion battery - requires KSC-35K/SK charger	63.00
KNB-69L	2550 mAh, Li-ion battery - requires KSC-35K/SK charger **[APR Available]**	75.00
KNB-29N	1500 mAh, NiMH battery - requires KSC-43K charger	36.75
KSC-35SK	110~220 volt Fast rate single unit charger for KNB-45L/69L	31.50
KSC-43K	110~220 volt Fast rate single unit charger for KNB-29N/45L/69L **[FEB Available]**	36.70

BATTERIES AND CHARGERS - CONT'D		**LIST**
KMB-28	Six Unit Charger Adapter for the KSC-23BK/28/35SK chargers (chargers not included) **Note:** The six KSC-xx AC wall Adapters are NOT used in the KMB-28 installation A supplied in-line AC-DC switching power supply with six DC plugs supply the six installed KSC-xx charger bases. This unit is lower profile and less weight than similar Kenwood six unit charger adapters. Dimensions: 10.6(W) x 2.4(H) x 9.5(D) inches, Weight: approx. 10 lbs. (loaded with chargers/radios)	208.50
KVC-22	110~220 volt Fast rate DC vehicular charger adapter for KSC-35SK charger & KNB-45L Li-ion battery (charger not included)	36.70

CARRYING ACCESSORIES		**LIST**
KBH-10	Spring action belt clip	8.35
KBH-8DS	Leather swivel belt loop with portable D-Ring attachment	26.30
KLH-6SW	Leather swivel belt loop / detachable swivel D-Ring back	22.00
KLH-187	Nylon case for TK-*200/*202/*300/*302/*400/*402 Series	14.70

MICROPHONES & AUDIO ACCESSORIES		**LIST**
KMC-48GPS	GPS Speaker Microphone	265.00
KMC-45	MIL-SPEC, IP54/55 Speaker microphone (Built-in 2.5mm miniature earphone jack)	86.00
KMC-21	Compact speaker microphone	51.50
KEP-2	2.5mm earphone kit for KMC-17/45 Speaker Mic	52.50
KHS-10-BH	Hvy-duty noise reduction behind-the-headset w/noise cancel boom mic /in-line PTT	368.00
KHS-10-OH	Hvy-duty noise reduction over-the-headset w/noise cancel boom mic /in-line PTT	336.00
KHS-7	Single muff headset w/boom mic	70.00
KHS-7A	Lt. Wt Single muff headset w/boom mic & in-line PTT	105.00
KHS-8BL	Two-Wire palm mic w/earphone (black)	103.25
KHS-9BL	Three-Wire lapel mic w/earphone (black)	166.00
KHS-22	Behind-the-Head Headset with flexible boom mic and in-line PTT single ear receiver	41.00
KHS-23	2-Wire Cell-style Earbud Clip/PTT Palm Mic (medium duty)	55.50
KHS-25	Headset w/ D-Ring Ear Hanger w/ PTT & Boom Mic	24.50
KHS-26	Clip Mic w/earphone	28.00
KHS-27	D-Ring Ear Hanger w/PTT & Mic	24.50
KHS-31	C-Ring Ear Hanger w/PTT & Mic	30.00

SERVICE RELATED ACCESSORIES		**LIST**
KPG-22UM	USB Programming interface cable	158.50
KPG-160DK	Windows® Programming Software for TK-2400/3400	103.25

INSTALLATION / TUNING CHARGES		**LIST**
L-1757	TK-2400/3400 Programming (with basic TX/RX check)	37.50

ProTalk — TK-2400VP / 3400UP
VHF/UHF BRS Portable Radios

GENERAL FEATURES
- 2 W (151-159 MHz) VHF
- 2 W (451-470 MHz) UHF
- 4 & 16 Channel Models
- 90 UHF & 27 VHF
Pre-programmed Banked Frequencies
- Normal Scan
- Transmit / Busy / Call Alert / Scan / Warn LED
- 2 PF Keys
- Super Lock (Manager Key Lock)
- 1.0 W Speaker Audio
- Enhanced Kenwood Audio
- Companded Audio
- Voice Announcement
- Channel Confirmation Mode
- VOX Ready
- Voice Inversion Scrambler Built-in
- QT / DQT
- 10 Call Alerting Tones

- Time Out Timer
- Low Battery Warning
- Battery Saver
- Windows® Programming & Tuning
- Wireless Cloning
- Password Protection
- MIL-STD-810 C/D/E/F/G
- IP-54/55 Water & Dust Intrusion

All 400P series portables include:
- Li-ion Battery (KNB-45L)
- Fast Charger (KSC-35SK)
- Antenna [KRA-26M(VHF)/27M(UHF)]
- Belt Clip (KBH-10)
- 2-PIN Connector Cap
- Instruction Manual
- Standard Warranty: 2 Years*

* All Accessories / options: 1 Year

RADIO		LIST
TK-2400V4P	151-159 MHz VHF 2W, 4 Ch.	247.00
TK-2400V16P	151-159 MHz VHF 2W, 16 Ch.	264.00
TK-3400U4P	451-470 MHz UHF 2W, 4 Ch.	264.00
TK-3400U16P	451-470 MHz UHF 2W, 16 Ch.	275.00

ANTENNAS		LIST
KRA-41M	VHF stubby antenna 148-162 MHz	13.70
KRA-42M	UHF stubby antenna 440-490 MHz	13.70
KRA-22M	VHF low profile antenna 148-162 MHz	13.70
KRA-23M	UHF low profile antenna 450-490 MHz	13.70
KRA-26M	VHF helical antenna 146-162 MHz	14.00
KRA-27M	UHF whip antenna 440-490 MHz	14.00

BATTERIES AND CHARGERS		LIST
KNB-45L	2000 mAh, Li-ion battery - requires KSC-35K/SK charger	63.00
KNB-69L	2550 mAh, Li-ion battery - requires KSC-35K/SK charger **[APR Available]**	75.00
KNB-29N	1500 mAh, NiMH battery - requires KSC-43K charger	36.75
KSC-35SK	110~220 volt Fast rate single unit charger for KNB-45L/69L	31.50
KSC-43K	110~220 volt Fast rate single unit charger for KNB-29N/45L/69L **[FEB Available]**	36.70
KMB-28	Six Unit Charger Adapter for the KSC-23BK/28/35SK chargers (chargers not included) **Note:** The six KSC-xx AC wall Adapters are NOT used in the KMB-28 installation A supplied in-line AC-DC switching power supply with six DC plugs supply the six installed KSC-xx charger bases. This unit is lower profile and less weight than similar Kenwood six unit charger adapters. Dimensions: 10.6(W) x 2.4(H) x 9.5(D) inches, Weight: approx. 10 lbs. (loaded with chargers/radios)	208.50
KVC-22	110~220 volt Fast rate DC vehicular charger adapter for KSC-35SK charger	36.70

CARRYING ACCESSORIES		**LIST**
KBH-10	Spring action belt clip	8.35
KBH-8DS	Leather swivel belt loop with portable D-Ring attachment	26.30
KLH-6SW	Leather swivel belt loop / detachable swivel D-Ring back	22.00
KLH-187	Nylon case for TK-*200/*202/*300/*302/*400/*402 Series	14.70

MICROPHONES & AUDIO ACCESSORIES		**LIST**
KEP-2	2.5mm earphone kit for KMC-17/45 Speaker Mic	52.50
KHS-10-BH	Hvy-duty noise reduction behind-the-headset w/noise cancel boom mic /in-line PTT	368.00
KHS-10-OH	Hvy-duty noise reduction over-the-headset w/noise cancel boom mic /in-line PTT	336.00
KHS-22	Behind-the-Head Headset with flexible boom mic and in-line PTT single ear	41.00
KHS-23	2-Wire Cell-style Earbud Clip/PTT Palm Mic (medium duty)	55.50
KHS-25	Headset w/ D-Ring Ear Hanger w/ PTT & Boom Mic	24.50
KHS-26	Clip Mic w/earphone	28.00
KHS-27	D-Ring Ear Hanger w/PTT & Mic	24.50
KHS-31	C-Ring Ear Hanger w/PTT & Mic	30.00
KHS-7	Single muff headset w/boom mic	70.00
KHS-7A	Lt. Wt Single muff headset w/boom mic & in-line PTT	105.00
KHS-8BL	Two-Wire palm mic w/earphone (black)	103.25
KHS-9BL	Three-Wire lapel mic w/earphone (black)	166.00
KMC-21	Compact speaker microphone	51.50
KMC-45	MIL-SPEC, IP54/55 Speaker microphone (Built-in 2.5mm miniature earphone jack)	86.00

SERVICE RELATED ACCESSORIES		**LIST**
KPG-22UM	USB Programming interface cable	158.50
KPG-160DK	Windows® Programming Software for TK-2400/3400	103.25

-- NOTES --

* Please see Kenwood's ProTalk® MAP (Minimum Advertised Price) policy.

TK-2402VK / 3402UK
VHF/UHF Conventional Portable Radios

GENERAL FEATURES
• 5 W (136-174 MHz) VHF
• 5 W (450-520 MHz) UHF
• 16 Channels
• Single Priority / Normal Scan
• Transmit / Busy / Call Alert Scan / Warn LED
• 4-Color LED (Blue/Red/Green/Orange)
• 2 PF Keys
• 1.0 W Speaker Audio
• Enhanced Kenwood Audio
• Companded Audio (per CH)
• Voice Annunciation
• VOX Ready
• Voice Inversion Scrambler Built-in
• 16 Scrambler Codes (per CH)
• Emergency Call Features
• Lone Worker Alert (per CH)
• QT / DQT
• Two-Tone Decode
• Single / Two-Tone Encode
• DTMF Encode / Decode

• Special Alert Tone Pattern
• Time Out Timer
• Busy Channel Lockout
• Low Battery Warning
• Battery Saver
• Windows® Programming & Tuning
• Wireless Cloning
• Password Protection
• MIL-STD-810 C/D/E/F/G
• IP-54/55 Water & Dust Intrusion

FleetSync®
• PTT ID Digital ANI
• Selective Call & Group Call
• Paging Call
• Emergency Status
• Send GPS Data (KMC-48GPS)

MDC-1200
• PTT ID Digital ANI
• Emergency Status
• Radio Check
• Radio Inhibit

All 402 series portables include:
• Li-ion Battery (KNB-45L)
• Fast Charger (KSC-35SK)
• Antenna [KRA-26M(VHF)/27M(UHF)]
• Belt Clip (KBH-10)
• 2-PIN Connector Cap
• Channel Stopper
• Instruction Manual
• Standard Warranty: 2 Years*

* All Accessories / options: 1 Year

RADIO		LIST
TK-2402VK	136-174 MHz VHF 5W, 16 Ch.	284.00
TK-3402UK	450-520 MHz UHF 5W, 16 Ch.	300.00

ANTENNAS		LIST
KRA-41M	VHF stubby antenna 148-162 MHz	13.70
KRA-41M2	VHF stubby antenna 162-174 MHz	13.70
KRA-41M3	VHF stubby antenna 136-150 MHz	13.70
KRA-42M	UHF stubby antenna 440-490 MHz	13.70
KRA-42M2	UHF stubby antenna 470-520 MHz	13.70
KRA-22M	VHF low profile antenna 148-162 MHz	13.70
KRA-22M2	VHF low profile antenna 162-174 MHz	13.70
KRA-22M3	VHF Low-profile helical antenna 136-150 MHz	13.70
KRA-23M	UHF low profile antenna 450-490 MHz	13.70
KRA-23M2	UHF low profile antenna 470-520 MHz	13.70
KRA-26M	VHF helical antenna 146-162 MHz	14.00
KRA-26M2	VHF helical antenna 162-174 MHz	14.00
KRA-26M3	VHF helical antenna 136-150 MHz	14.00
KRA-27M	UHF whip antenna 440-490 MHz	14.00
KRA-27M2	UHF whip antenna 470-520 MHz	14.00

BATTERIES AND CHARGERS		LIST
KNB-45L	2000 mAh, Li-ion battery - requires KSC-35K/SK charger	63.00
KNB-69L	2550 mAh, Li-ion battery - requires KSC-35K/SK charger **[APR Available]**	75.00
KNB-29N	1500 mAh, NiMH battery - requires KSC-43K charger	36.75
KSC-35SK	110~220 volt Fast rate single unit charger for KNB-45L/69L	31.50
KSC-43K	110~220 volt Fast rate single unit charger for KNB-29N/45L/69L **[FEB Available]**	36.70

BATTERIES AND CHARGERS - CONT'D		*LIST*
KMB-28	Six Unit Charger Adapter for the KSC-23BK/28/35SK chargers (chargers not included) **Note:** The six KSC-xx AC wall Adapters are NOT used in the KMB-28 installation A supplied in-line AC-DC switching power supply with six DC plugs supply the six installed KSC-xx charger bases. This unit is lower profile and less weight than similar Kenwood six unit charger adapters. Dimensions: 10.6(W) x 2.4(H) x 9.5(D) inches, Weight: approx. 10 lbs. (loaded with chargers/radios)	208.50
KVC-22	110~220 volt Fast rate DC vehicular charger adapter for KSC-35SK charger & KNB-45L Li-ion battery (charger not included)	36.70

CARRYING ACCESSORIES		*LIST*
KBH-10	Spring action belt clip	8.35
KBH-8DS	Leather swivel belt loop with portable D-Ring attachment	26.30
KLH-6SW	Leather swivel belt loop / detachable swivel D-Ring back	22.00
KLH-187	Nylon case for TK-*200/*202/*300/*302/*400/*402 Series	14.70

MICROPHONES & AUDIO ACCESSORIES		*LIST*
KMC-48GPS	GPS Speaker Microphone	265.00
KMC-45	MIL-SPEC, IP54/55 Speaker microphone (Built-in 2.5mm miniature earphone jack)	86.00
KMC-21	Compact speaker microphone	51.50
KEP-2	2.5mm earphone kit for KMC-17/45 Speaker Mic	52.50
KHS-10-BH	Hvy-duty noise reduction behind-the-headset w/noise cancel boom mic /in-line PTT	368.00
KHS-10-OH	Hvy-duty noise reduction over-the-headset w/noise cancel boom mic /in-line PTT	336.00
KHS-7	Single muff headset w/boom mic	70.00
KHS-7A	Lt. Wt Single muff headset w/boom mic & in-line PTT	105.00
KHS-8BL	Two-Wire palm mic w/earphone (black)	103.25
KHS-9BL	Three-Wire lapel mic w/earphone (black)	166.00
KHS-22	Behind-the-Head Headset with flexible boom mic and in-line PTT single ear receiver	41.00
KHS-23	2-Wire Cell-style Earbud Clip/PTT Palm Mic (medium duty)	55.50
KHS-25	Headset w/ D-Ring Ear Hanger w/ PTT & Boom Mic	24.50
KHS-26	Clip Mic w/earphone	28.00
KHS-27	D-Ring Ear Hanger w/PTT & Mic	24.50
KHS-31	C-Ring Ear Hanger w/PTT & Mic	30.00

SERVICE RELATED ACCESSORIES		*LIST*
KPG-22UM	USB Programming interface cable	158.50
KPG-159DNK	Windows® Programming Software for TK-2402VK/3402UK (Compliant with FCC Part 90 Narrowbanding)	103.25

INSTALLATION / TUNING CHARGES		*LIST*
L-1756	TK-2402VK/3402UK Programming (with basic TX/RX check)	37.50

ProTalk® XLS TK-3230
UHF BRS Portable Radio

GENERAL FEATURES
• UHF 1.5 Watt or 500 mW Transmit Power
• Extra Durable Polycarbonate Housing
• Small (2 1/16" W x 1 1/8" D x 4 1/16" H) & Lightweight (5.5 oz)
• Li-Ion battery with over 14 Hours Talk Time (5/5/90 duty cycle)
• Over 18 Hours Talk Time (with Battery Save On) 5/5/90 duty cycle
• 6 Channel Operation (factory pre-set)
• 64 User-Programmable Memory Bank Frequencies
• Channel Scan
• Wireless Cloning Mode
• Key Lock/Super Lock
• User Programmable QT (39) and DQT (83) Signaling
• 10 Call Alert Tones
• Voice Scrambler
• Speaker Mute Function
• Compander
• SelCall (for Caller ID)
• LCD Battery Meter & Low Battery Alert
• VOX (Voice-activated transmit) w/3 Sensitivity Levels
• Time Out Timer
• 2 Color Transmit / Busy LED/ Backlit LCD Display
• 3 Function Keys: Menu, Call, Monitor
• Audio Accessory Jack
• Antenna (fixed non-removable)
• Passes 8 Rugged Mil-Spec 810 C, D, E, F & G Standards

XLS series portable includes:
• Spring action belt clip
• Rapid Rate Drop-in charger
• Fixed Antenna
• 2000 mAh Li-ion Battery
• Instruction Manual
• Standard Warranty: 2 Years*

* All Accessories / options: 1 Year

RADIO		LIST
TK-3230K	464-467 MHz UHF 1.5W or 500 mW, 6 Ch. Portable Transceiver	225.00

BATTERIES AND CHARGERS		LIST
KNB-46L	Li-Ion battery (Same as supplied with TK-3230)	47.25
KSC-37	Li-Ion Rapid rate charger (Same as supplied with TK-3230)	31.50
KMB-27	Six Unit Charger Adapter for the KSC-28/37 chargers (chargers not included) **Note:** The six KSC-xx AC wall Adapters are NOT used in the KMB-27 installation A supplied in-line AC-DC switching power supply with six DC plugs supply the six installed KSC-xx charger bases. This unit is lower profile and less weight than similar Kenwood six unit charger adapters. Dimensions: 10.6(W) x 2.4(H) x 9.5(D) inches, Weight: approx. 10 lbs. (loaded with chargers/radios)	208.50

CARRYING ACCESSORIES		LIST
KBH-14M	Spring action belt clip (Same as supplied with TK-3230)	9.35
KLH-150	Nylon case for TK-3230 (Black)	14.70

MICROPHONES & AUDIO ACCESSORIES		LIST
KEP-2	2.5mm earphone kit for KMC-17/45 Speaker Mic	52.50
KHS-10-BH	Hvy-duty behind-the-headset w/noise cancelling boom mic & in-line PTT	368.00
KHS-10-OH	Hvy-duty over-the-headset w/noise cancelling boom mic & in-line PTT	336.00
KHS-7	Single muff headset w/boom mic	70.00
KHS-7A	Lt. Wt Single muff headset w/boom mic & in-line PTT	105.00

MICROPHONES & AUDIO ACCESSORIES - CONT'D		*LIST*
KHS-8BL	Two-Wire palm mic w/earphone (black)	103.25
KHS-9BL	Three-Wire lapel mic w/earphone (black)	166.00
KHS-22	Behind-the-Head Headset with flexible boom mic and in-line PTT single ear receiver (low profile wire head band)	41.00
KHS-23	2-Wire Cell-style Earbud Clip/PTT Palm Mic (medium duty)	55.50
KHS-25	Headset w/ D-Ring Ear Hanger w/ PTT & Boom Mic	24.50
KHS-26	Clip Mic w/earphone	28.00
KHS-27	D-Ring Ear Hanger w/PTT & Mic	24.50
KHS-31	C-Ring Ear Hanger w/PTT & Mic	30.00
KMC-45	MIL-SPEC, IP54/55 Speaker microphone (Built-in 2.5mm miniature earphone jack)	86.00
KMC-21	Compact speaker microphone	51.50

INSTALLATION / TUNING CHARGES		*LIST*
L-1077	Change Channel to other frequencies or program TK-3230	25.00

-- NOTES --

* Please see Kenwood's ProTalk® MAP (Minimum Advertised Price) policy.

KENWOOD

ProTalk® LT PKT-23
UHF BRS Portable Radio

GENERAL FEATURES
• UHF 1.5 Watt or 500 mW Transmit Power
• Extra Durable Polycarbonate Housing
• Small (1.8" W x 0.8" D x 3.3 H) & Lightweight (3.9 oz)
• Li-Ion battery with over 11 Hours Talk Time (5/5/90 duty cycle)
• Over 15 Hours Talk Time (with Battery Save On) 5/5/90 duty cycle
• 4 Channel Operation (factory pre-set)
• 99 User-Programmable Memory Bank Frequencies
• Channel Scan
• Wireless Cloning Mode
• Key Lock/Super Lock
• User Programmable QT (39) and DQT (168) Signaling
• Bell Tone Alert
• Speaker Mute Function
• VOX (Voice-activated transmit) w/5 Sensitivity Levels
• Voice Announcement
• Time Out Timer
• LED Battery Status Indicator
• 2 Function Keys
• 1-PIN Audio Accessory Jack
• Micro USB Port
• Antenna (fixed non-removable)
• Passes IP54 & 11 Rugged Mil-Spec 810 C, D, E, F & G Standards

LT series portable includes:
• Spring action belt clip
• Drop-in charger
• Fixed Antenna
• 1430 mAh Li-ion Battery
• Instruction Manual
• Standard Warranty: 2 Years*

* All Accessories / options: 1 Year

RADIO		LIST
PKT-23K	451-470 MHz UHF 1.5W or 500 mW, 4 Ch. Ultra Compact Portable	175.00

BATTERIES AND CHARGERS		LIST
KNB-71L	Li-Ion battery (Same as supplied with PKT-23K)	25.00
KSC-44K	Li-Ion Fast rate charger/AC Power Supply (Same as supplied with PKT-23K)	25.00
KMB-44K	Six Unit Charging Cup and Muli-AC Adapter (Charging Cups not included) Available late Jan '14	167.00

CARRYING ACCESSORIES		LIST
KBH-20M	Belt Clip (Same as supplied with PKT-23K & bulk PKT-23BKP)	9.35

MICROPHONES & AUDIO ACCESSORIES		LIST
KHS-33	Clip Mic w/earphone single pin (only compatible with PKT-23)	28.00
KHS-34	C-Ring Ear Hanger w/PTT & Mic single pin (only compatible with PKT-23) Available Jan '14	35.00

INSTALLATION / TUNING CHARGES		LIST
L-1773	Change channel to other frequencies or program PKT-23	25.00

-- NOTES --
* Please see Kenwood's ProTalk® MAP (Minimum Advertised Price) policy.

TK-690 / 790 / 890
VHF/UHF FM Mobile Radios

All 90 BKseries mobiles include:
• RF Deck Only
(Configuration Set & Assembly Labor Code must be order for a Complete Mobile.)
• Standard Warranty: 2 Years*

* All Accessories / options: 1 Year

Important Information
(TK-890; UHF)

* The lowest receive channel spread range is the factory default tuning if not otherwise specified. Refer to the table (right); order L-850 (no charge) and specify receive spread at the time of ordering. Out of range orders cannot be accepted.

* TX Power is derated at 470-480 MHz for TK-890HBK:

- 450-469 MHz (100 W)
- 470-480 MHz (75 W)

GENERAL FEATURES
• 45W & 110W (148-174 MHz)
• 40W (450-490, 480-512 MHz)
• 100W-75W (450-480 MHz)
• 110W (29.7-37.0, 35.0-43.0, 39.0-50.0 MHz)
• 160 Channels
• Dual Priority Scan
• Single / Multi Group Scan
• QT / DQT
• Operator Selectable Tone
• Two-Tone Decode1
• DTMF Encode/ Decode / Stun
• Encryption / ANI Board Control
• Emergency Call Features
• Companded Audio
• Intercom
• Public Address
• Time Out Timer
• Busy Channel Lockout
• Ignition Sense
• Timed Power Off
• DB-25 Accessory Connector
• 7 Programmable AUX Inputs
• 6 Programmable AUX Outputs
• Windows® Programming & Tuning
• Windows® Firmware Uploading
• Panel Tuning
• Cloning
• MIL-STD-810 C/D/E/F/G
• MIL-Spec Noise-Cancel Mic (included)
• MIL-Spec 12-Key DTMF Mic Option

FleetSync®
• PTT ID Digital ANI
• Emergency Status

MOUNTING CONFIGURATIONS
• Dash Mount
• Single Head Remote Mount
• Dual Head Remote Mount
• Dual Band Remote Mount
• Dual Head / Dual Band Remote Mount

FRONT PANELS / CONTROL HEADS
• Backlit Dot Matrix LCD
• 3-Digit Sub-Display
• Function/Status LCD Icons
• Transmit LED
• Busy, Call Alert, Warn LED
• LCD Dimmer Control
• Power On/Off Switch
• Rotary Volume Knob
• Rotary Selector Knob
• Backlit Keys
• PF Key Label Inserts
• Microphone Jack
• MILSTD 810 512.X Driven Rain

KCH-10 FRONT PANEL
• 8-Character Alphanumeric Aliases
• 5 PF Keys
• UP/DOWN Keys
• Built-in Front Speaker

KCH-11 FRONT PANEL
• 14-Character Alphanumeric Aliases
• 13 PF Keys
• UP/DOWN Keys
• External Speaker Required

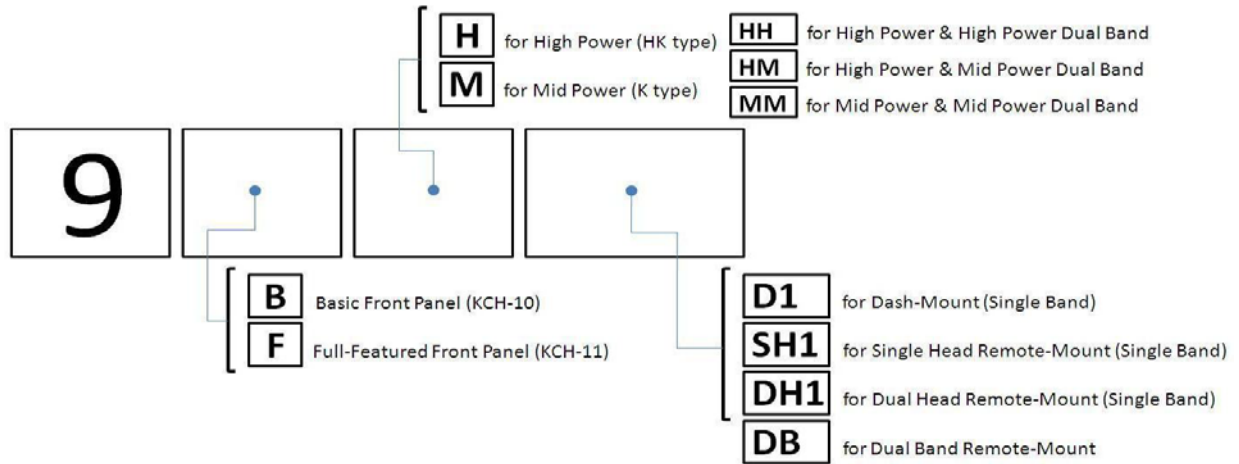| Model	RF Deck Freq. Range	RX Ch. Spread	TX Ch. Spread
TK-890BK/K	450-490	20 MHz	40 MHz
Factory Default:		450-470	450-490
Order L-850:		460-480	450-490
		470-490	450-490
TK-890BK2	480-512	20 MHz	32 Mhz
Factory Default:		480-500	480-512
Order L-850:		492-512	480-512
TK-890HBK	450-480	20 MHz	30 MHz
Factory Default:		450-470	450-480
Order L-850:		460-480	450-480

MODEL		LIST
TK-690HBK	29.7-37.0 MHz, 110W, 160 Channels (R.F. DECK ONLY)	1,071.00
TK-690HBK2	35.0-43.0 MHz, 110W, 160 Channels (R.F. DECK ONLY)	1,071.00
TK-690HBK3	39.0-50.0 MHz, 110W, 160 Channels (R.F. DECK ONLY)	1,071.00
TK-790BK	148-174 MHz, 45W, 160 Channels (R.F. DECK ONLY)	767.00
TK-790HBK	148-174 MHz, 110W, 160 Channels (R.F. DECK ONLY)	1,239.00
TK-890BK	450-490 MHz, 40W, 160 Channels (R.F. DECK ONLY)	819.00
TK-890HBK	450-480 MHz, 100/75W, 160 Channels (R.F. DECK ONLY)	1,292.00

ACCESSORY CONFIGURATION SETS	*LIST*

CONFIGURATION SET DEFINITIONS

> **Note:** All KCH-10 / Basic Control Head configurations are shipped with the control heads 4W internal speaker enabled. Order L-891 to enable the 13W external speaker output for KES-5 speaker use. This will disconnect the control heads internal 4W speaker !
>
> **Note:** Order an Labor code for each model if factory packaging is required:
> **L-846** Package Dash/Single Head Remote*
> **L-847** Package Dual Head Remote
> **L-848** Package Dual Band Remote
> **L-849** Package Dual Band Dual Head Remote
> (* TK-790K/890K are pre-packaged & fully assembled: basic front, medium power, dash mount mobiles. No need to use the assembly labor code L-846.)

Single Band Dash Mount   **LIST**

9BHD1	KCH-10, KCT-23M2, KMB-9, KMC-27	326.50
9BMD1	KCH-10, KCT-23M, KMB-5, KMC-27	296.50
9FHD1	KCH-11, KCT-23M2, KMB-9, KMC-27, KES-5	471.75
9FMD1	KCH-11, KCT-23M, KMB-5, KMC-27, KES-5	441.75

Single Band Single Head Remote Mount   **LIST**

9BHSH1	KCH-10, KRK-5, KCT-22M2, KCT-23M4, KMB-9, KMC-27	564.00
9BMSH1	KCH-10, KRK-5, KCT-22M2, KCT-23M3, KMB-5, KMC-27	530.75
9FHSH1	KCH-11, KRK-5, KCT-22M2, KCT-23M4, KMB-9, KMC-27, KES-5	709.25
9FMSH1	KCH-11, KRK-5, KCT-22M2, KCT-23M3, KMB-5, KMC-27, KES-5	676.00

Single Band Dual Head Remote Mount   **LIST**

9BHDH1	KCH-10(x2), KRK-6DH, KCT-22M2(x2), KCT-23M4, KMB-9, KMC-27(x2)	1,004.00
9BMDH1	KCH-10(x2), KRK-6DH, KCT-22M2(x2), KCT-23M3, KMB-5, KMC-27(x2)	970.75
9FHDH1	KCH-11(x2), KRK-6DH, KCT-22M2(x2), KCT-23M4, KMB-9, KMC-27(x2), KES-5(x2)	1,294.50
9FMDH1	KCH-11(x2), KRK-6DH, KCT-22M2(x2), KCT-23M3, KMB-5, KMC-27(x2), KES-5(x2)	1,261.25

Dual Band Single Head Remote Mount   **LIST**

9BHHDB	KCH-10, KRK-7DB, KMC-27, KCT-22M2, KCT-23M4(x2), KMB-9(x2)	761.50
9BHMDB	KCH-10, KRK-7DB, KMC-27, KCT-22M2, KCT-23M3, KCT-23M4, KMB-5, KMB-9	728.25
9BMMDB	KCH-10, KRK-7DB, KMC-27, KCT-22M2, KCT-23M3(x2), KMB-5(x2)	695.00
9FHHDB	KCH-11, KRK-7DB, KMC-27, KES-5, KCT-22M2, KCT-23M4(x2), KMB-9(x2)	906.75
9FHMDB	KCH-11, KRK-7DB, KMC-27, KES-5, KCT-22M2, KCT-23M3/KCT-23M4, KMB-5/KMB-9	873.50
9FMMDB	KCH-11 KRK-7DB, KMC-27, KES-5, KCT-22M2, KCT-23M3(x2), KMB-5(x2)	840.25

Dual Band Dual Head Remote Mount

		LIST
9BBHH	KCH-10(x2), KMC-27(x2), KRK-8DBH, KCT-22M2(x2), KCT-23M4(x2), KMB-9(x2)	1,117.50
9BBHM	KCH-10(x2), KMC-27(x2), KRK-8DBH, KCT-22M2(x2), KCT-23M3, KCT-23M4, KMB-5, KMB-9	1,084.25
9BBMM	KCH-10(x2), KMC-27(x2), KRK-8DBH, KCT-22M2(x2), KCT-23M3(x2), KMB-5(x2)	1,051.00
9FFHH	KCH-11(x2), KMC-27(x2), KRK-8DBH, KCT-22M2(x2), KCT-23M4(x2), KMB-9(x2), KES-5(x2)	1,408.00
9FFHM	KCH-11(x2), KMC-27(x2), KRK-8DBH, KCT-22M2(x2), KCT-23M3, KCT-23M4, KMB-5, KMB-9, KES-5(x2)	1,374.75
9FFMM	KCH-11(x2), KMC-27(x2), KRK-8DBH, KCT-22M2(x2), KCT-23M3(x2), KMB-5(x2), KES-5(x2)	1,341.50

FRONT PANELS & REMOTE KITS (Order Configuration Sets for full install accessories)

		LIST
KCH-10	Basic Control Panel	147.00
KCH-11	Full Featured Control Panel	231.00
KRK-5	Single Control Head Remote Mount Kit	147.00
KRK-6DH	Dual Control Head Remote Mount Kit	252.00
KRK-7DB	Dual Band Control Head Remote Mount Kit	262.50
KRK-8DBH	Dual Band Dual Head Remote Mount Kit	283.50

CABLES

		LIST
KCT-18	Ignition sense cable	13.70
KCT-22M	Control cable - 8 Feet	73.50
KCT-22M2	Control cable - 17 Feet (Standard accessory config. set cable)	84.00
KCT-22M3	Control cable (25 Feet)	94.50
KCT-23M	DC Cable (35/45W Dash mount)	31.50
KCT-23M2	DC Cable (75/110W Dash mount)	38.75
KCT-23M3	DC Cable (35/45W Remote mount)	34.75
KCT-23M4	DC Cable (75/110W Remote mount)	45.25

MOBILE INSTALLATION ACCESSORIES

		LIST
KCK-6	Auxiliary Adapter for 90-Series Mobiles (For AUX A, B, & C) **Features**: 90-Series AUX A, B, & C Inputs, 3 AUX 1 Amp Relay Outputs, D-Sub 25 90-Series Accessory Connector Parallel Feed Through Supplied Items: Instruction Sheet (1pc.), KCK-6 (1pc.), Insulated Spade Lugs [0.250 female fully insulated, 16-14 wire range] (8pcs.) ***Hardware that may be required but NOT supplied - two 3/16" mounting screws, male-to-female DB-25 straight through serial cable, & wire peripheral.** **Caution**: KCK-6 Relays are rated at 1A maximum. Do Not Exceed. The KCK-6 is not intended to directly drive siren and light packages. The siren/light package manufacturers recommended high amperage relay units and directions should be followed	138.25
KLF-2	Line Filter (suppresses alternator whine, 25dB, 25A max)	42.00
KMB-10	Key Lock Adapter for use with KMB-4/5/6	26.30
KMB-5	Medium Power Mounting Bracket (35W/45W models)	14.00
KMB-9	Heavy Duty Mounting Bracket with built-in key lock	36.75

MICROPHONES AND SPEAKERS

		LIST
KES-5	External Speaker (40W max input)	61.25
KMC-27	Rugged standard microphone with noise canceling, MIL-STD and driven rain features	104.00
KMC-28	DTMF microphone (MIL-SPEC, Noise canceling)	163.00
KMC-9B	Desk top microphone	96.50

SERVICE RELATED ACCESSORIES — LIST

		LIST
KPG-43UM	USB Programming interface cable	158.50
KPG-44DNK	Windows® Programming Software for TK-690/790/890 (Compliant with FCC Part 90 Narrowbanding)	68.50
******************	**Contact Kenwood Parts for Price and Availability 800-367-7514 on the following:**	
K29-5276-03	Key Inserts for 90-series mobile (AN, D/A, DIM, HA, HC, IC, MON, OPT, OST, PA)	---
K29-5277-03	Key Inserts for 90-series mobile (RCL, RPT, SCN, SP, SPM, SQ, TA, <up arrow>, <down arrow>)	---
K29-5305-03	Key Inserts for 90-series mobile (CH1, CH2, CH3, CH4, CH5, AUXA, AUXB, AUXC, EMG, ORG)	---
S76-0434-05	1 Amp Relay for 90-series mobile	---

INSTALLATION / TUNING CHARGES — LIST

		LIST
L-846	Package Dash/Single Head Remote for 90-series mobiles	17.00
L-847	Package Dual Head Remote for 90-series mobiles	34.00
L-848	Package Dual Band Remote for 90-series mobiles	34.00
L-849	Package Dual Band Dual Head Remote for 90-series mobiles	50.00
L-850	Tune TK-890 receiver channel spread (20 MHz max.); specify receive spread	N/C
L-854	90 Mobile Programming (with basic TX/RX check)	30.00
L-858	Modify 90-series mobile Single Band (Single Head) Mobile for Pyramid Vehicular Repeater	75.00
L-859	Modify 90-series mobile Single Band (Dual Head) Mobile for Pyramid Vehicular Repeater	75.00
L-861	Install Horn Alert output relay for 90-series mobiles (1 amp max.) --- Part #S76-0407-05 Relay incl.	70.00
L-862	Install Key Inserts for 90-series mobiles **Note**: For new radio tune orders only. Installs only the included KCH-10/11 key inserts. Must specify keys and placement (see Service Manuals for placement diagram, pg. 14). Also, see Service Manuals for technical details (pg. 14). Other Key Inserts are available from Parts Dept. See the "Service Related Accessories" section of the 90-series mobiles pricepages for more information.	15.00
L-864	KCT-22A Extended Control Head Cable (up to 50 ft. max.) **Note**: Please specify exact length at 1ft. increments when ordering. **Caution**: Extended control head cables exhibit a loss in speaker audio power to the control heads. For either type control head (KCH-10/11), it is recommended that the 13W audio output modification be implemented to drive extended cable runs and a KES-5 external speaker be used. Refer to the service manual pg. 15-17 for 13W modifications. Installing new radio firmware (hex files) via the KPG-44D software nor checking the firmware "checksum" is not possible through an extended control head cable. A standard KCT-22 cable of 25 ft. or less should be used when this has to be done. Normal KPG-44D radio parameter programming is possible at extended lengths.	190.00
L-865	KCT-22A Extended Control Head Cable (up to 100 ft. max.) **Note**: Please specify exact length at 1ft. increments when ordering. **Caution**: Extended control head cables exhibit a loss in speaker audio power to the control heads. For either type control head (KCH-10/11), it is recommended that the 13W audio output modification be implemented to drive extended cable runs and a KES-5 external speaker be used. Refer to the service manual pg. 15-17 for 13W modifications. Installing new radio firmware (hex files) via the KPG-44D software nor checking the firmware "checksum" is not possible through an extended control head cable. A standard KCT-22 cable of 25 ft. or less should be used when this has to be done. Normal KPG-44D radio parameter programming is possible at extended lengths.	245.00
L-866	KCT-23A-K2 Two Conductor 75/110W High Power DC Cable (2 Conductor: 1x23 ft. positive, 1x23 ft. negative; AWG #10) **Note**: This cable substitutes for the ff: DC Cables: --> KCT-23M2 75/110W Dash Mount DC Cable: 4 Conductor: 2x10 ft. positive, 2x10 ft. negative --> KCT-23M4 75/110W Remote Mount DC Cable: 4 Conductor: 2x23 ft. positive, 2x23 ft. negative	75.00
L-867	Jumper foil for SB to pin 14 of accessory connector for 90-series mobile (Ref. 90-Series Mobile Service Manual, page 17/18)	25.00
L-870	Simultaneous transpond and alert feature up-grade for 90-series mobiles & portables	50.00
L-883	Modify 90-series mobile for KCT-18	25.00
L-891	External speaker modification for 90-series mobile Control Head (13W)	10.00
L-903	R640 mic input modification for 90-series mobile	17.00
L-910	Install firmware 094F (90-series mobile * and # DTMF without PTT) **Note**: The firmware 094F gives the 90-series mobile the ability to generate a DTMF tone from the * and # keys without pushing the PTT button.	17.00

KENWOOD

INSTALLATION / TUNING CHARGES - CONT'D		LIST
L-912	90-Series mobile low imp. mic. Input at RF deck	10.00
L-917	EXT PTT / Local KMC-27 mic disable **Purpose**: Disables the KMC-27 mobile hand mic element when 90-series mobile external PTT is active. For use with data modems, GPS AVL data units, headset systems (motorcycles, ambulance, fire engines), vehicle intercom	17.00
L-921	Modify 90-series mobile Dual Band (Single Head) for Pyramid Vehicular Repeater	75.00
L-922	Modify 90-series mobile Dual Band (Dual Head) for Pyramid Vehicular Repeater	75.00

NX-700 / 800

NEXEDGE® VHF/UHF Digital & FM Analog Mobile Radios

GENERAL FEATURES
- 30W / 50W (136-174 MHz) Models
- 30W / 45W (400-470, 450-520 MHz) Models
- 512 CH-GID / 128 Zones
- Dash & Remote Mount
- 14 Character Alphanumeric Aliases
- Backlit Dot Matrix LCD
- Function/Status LCD Icons
- Multi-Language Display
- Date & 12/24 Hour Time Clock
- Transmit/Busy/Call Alert/Warn LED
- On/Off Power Control
- 4 Up/Down Selectors
- 6 Front PF Keys
- Emergency/AUX Key
- 4W Speaker Audio
- DB-25 Accessory Connector
- 9 Programmable AUX I/Os
- 2 Programmable AUX Outputs
- KPG-111D Windows® FPU
- Flash Firmware Upgrading
- MIL-STD-810 C/D/E/F/G
- IP-54/55 Water & Dust Intrusion
- PC Serial Interface
- SDM Manual Input
- Transparent Data Mode
- GPS Receiver Option
- VGS-1 Voice Guide / Voice & GPS Data Storage Option

DIGITAL – GENERAL
- NXDN® Digital Air Interface
- AMBE+2™ VOCODER
- 6.25 & 12.5 kHz Channels
- Over-the-Air Alias
- Over-the-Air Programming
- Paging Call
- Emergency Call
- All Group Call
- Status Messaging
- Remote Stun/Kill/Check
- Short & Long Data Messages
- GPS Location with Voice
- NXDN® Scrambler Included
- DES Encryption Module Option
- AES & DES Encryption Module Option
- AES/DES Software Key Loader Option

DIGITAL CONVENTIONAL MODE
- 64 Radio Access Numbers (RAN)
- Individual & Group Selective Call
- Mixed FM/Digital Operation
- Conventional IP Networks
- Site Roaming

DIGITAL TRUNKING MODE
- Individual Private Call
- Group Call & Broadcast Call
- Telephone Interconnect
- Transmission Trunked Mode
- Message Trunked Mode
- Call Queuing with Priority
- Late Entry (UID & GID)
- 4 Priority Monitor ID's
- Remote Group Add
- Failsoft Mode

MULTI-SITE IP NETWORKS COMPATIBLE
- Individual Private Call
- Group Call & Broadcast Call
- Transmission Trunked Mode

MULTI-SYSTEM COMPATIBLE
- 8 Trunked Networks per radio (each in a zone)
- UID Lists for each network

SCAN
- Single Zone / Multi-Zone / List Scan
- Dual Priority Scan (Conventional)

ANALOG MODES - GENERAL
- 25 & 12.5 kHz Channels
- Conventional & LTR® Zones
- FleetSync®/II, MDC-1200, DTMF
- QT / DQT & Two-Tone (Conventional Zones Only)
- Voice Inversion Scrambler
- Analog Scrambler Board Capability

MPT ZONES (option)
- Single-Site Trunking
- Multi-Site Network Trunking
- 8 Network Capacity
- Network Roaming / Registration

FleetSync®/II (FM)
- PTT ID ANI / Caller ID
- Selective / Group Call
- Emergency, Status & Text Messages

MDC-1200
- PTT ID ANI / Caller ID
- Emergency, Radio Check & Inhibit

All NX series mobiles include:
- Standard Microphone (KMC-35)
- Mounting Bracket
- DC Cable (KCT-23M)
- Blade Fuse
- Instruction Manual
- Premium Warranty: 3 Years*

* All Accessories / options: 1 Year

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* TX Power is derated at 490-512 MHz

NX-800K: 450-489 MHz (30 W)
             490-512 MHz (25 W)
NX-800HK: 450-489 MHz (45 W)
             490-512 MHz (40 W)

MODEL		LIST
NX-700K	136-174 MHz 30W, 512 CH / 128 Zone	725.00
NX-700HK	136-174 MHz 50W, 512 CH / 128 Zone	850.00
NX-800K	450-520 MHz 30W, 512 CH / 128 Zone	725.00
NX-800K2	400-470 MHz 30W, 512 CH / 128 Zone	725.00
NX-800HK	450-520 MHz 45W, 512 CH / 128 Zone	850.00
NX-800HK2	400-470 MHz 45W, 512 CH / 128 Zone	850.00

MOBILE INSTALLATION ACCESSORIES — LIST

KAP-2	Horn Alert/P.A. Relay Option	63.00
KCT-46	Ignition sense cable (plugs directly into mobile chassis ignition sense line)	13.70
KLF-2	Line Filter (suppresses alternator whine, 25dB, 25A max).	42.00
KMB-10	Key lock adapter	26.30
KRK-10	Remote Control Kit (a remote control cable (23 ft) is included)	105.00
KRK-13	Dual Control Head Kit (a control head, remote cables, and KMC-35 microphone included) **Note:** some operations have limitations. Please refer to Application Note avlb. on Kenwood Tools. **Order: L-1776 if installation is required.**	959.00
KCT-23M	DC Cable (35-50W Dash mount; pos/neg. 10 ft. leads)	31.50
KCT-23M3	DC Cable (35-50W Remote mount; pos.23 ft.; neg. 3.3. ft. leads)	34.75

CONTROL STATION INSTALLATION ACCESSORIES — LIST

KMC-9C	Control Station Desktop Microphone (8-pin mod. plug)	86.00
KMB-24	Control Station Mounting Case for KPS-15 Power Supplies (mobile mounting hardware included)	42.00
KPS-15	DC Switching Power Supply (117/230 VAC; 23A max. continuous, 25A peak)	173.00

MICROPHONES AND SPEAKERS — LIST

KMC-35	MIL-SPEC Standard electret mobile microphone (8-pin mod. plug) - same as supplied	52.50
KMC-36	MIL-SPEC Standard electret mobile microphone with 12 keypad (8-pin mod. plug)	94.50
KMC-9C	Control Station Desktop Microphone (8-pin mod. plug)	86.00
KES-3	External speaker (compact low profile; black case; 3.5 mm phono plug-in)	44.25
KES-5	External speaker, 40W max input **Note:** requires KAP-2 (PA/HA unit) installed	61.25

FIRMWARE OPTIONS — LIST

KWD-P25C	P25 Flash upgrade; NX-200/300/700/800 Must order **L-1663** **Note**: KWD-P25C will be Kenwood factory installed only (units must be returned for upgrade)	792.00

SOFTWARE OPTIONS — LIST

KPG-150AP	NEXEDGE OTAP Manager Windows Software. • License Includes 10 radios / 1 Serial Port* • To add more radios/serial ports, you must contact Kenwood Systems Division [1-800-TRUNKING]	550.00
KPG-151AE	AES/DES Encryption Software Key Loader for KWD-DE21K/KWD-AE21K KPG-151AE is a U.S. DOC/BIS Export Controlled Item (ECCN 5D002A) **- See IMPORTANT NOTES -**	525.00

OPTION MODULES — LIST

KWD-AE20K	AES FIPS140-2 & DES Encryption Module for TK-5*10/5*20 & NX-*00/*10 Portables & Mobiles **Order L-1720** if installation is required. KWD-AE20K requires: a Motorola KVL3000 Plus key loader device. KWD-AE20K is an U.S. DOC/BIS Export Controlled Item (ECCN 5A002A.1) **- See IMPORTANT NOTES -**	998.00
KWD-AE21K	AES & DES Encryption Module for TK-5*10/5*20 & NX-*00/*10 Portables & Mobiles **Order L-1721** if installation is required. **Note**: Requires KPG-151AE software key loader or Motorola KVL3000 Plus key loader device. KWD-AE21K is an U.S. DOC/BIS Export Controlled Item (ECCN 5A002A.1) **- See IMPORTANT NOTES -**	998.00
KWD-DE21K	DES Encryption Module for TK-5*10/5*20 & NX-*00/*10 Portables & Mobiles **Order L-1722** if installation is required **Note**: Requires KPG-151AE software key loader or Motorola KVL3000 Plus key loader device KWD-DE21K is a U.S. DOC/BIS Export Controlled Item (ECCN 5A992A) **- See IMPORTANT NOTES -**	578.00
VGS-1	Voice Guide and Storage Unit	87.50

FleetSync® & NEXEDGE® AVL & MESSAGING — LIST

		LIST
GA25MCX	Garmin On-dash Style Magnetic base GPS Antenna for GPS15XL-W **Note:** shipped loose only; Install GA25MCX antenna to GPS15XL-W before vehicle install; Refer to 180/NX-Series In-depth Technical Manuals for mobile installation.	62.00
GPS15XL-W	Garmin Internal GPS Receiver Board for FleetSync® & NEXEDGE® AVL **Note**: • Conventional & LTR operation • NEXEDGE® Conventional & Trunking operation • Requires GA25 MCX GPS antenna • Refer to 180/NX-Series & KGS-3/KAS-10 In-Depth Technical Manuals for installation, programming & KGS-3/KAS-10 software setup. Refer to www.garmin.com for GPS-15L-W technical specifications. • Option: Order **L-1098** for Kenwood Long Beach installation	130.25
KAS-10	FleetSync® & NEXEDGE® AVL & Messaging Software with NEXEDGE Trunking VoIP Dispatch **Note:** Users can chose to operate Messaging, AVL or VoIP or all three if desired. Compatible with Windows® XP, VISTA & 7 and Microsoft®MapPoint®2006/2009/2010 (certain format bitmap images can be imported). Refer to KAS-10 product spec sheets and manuals for detials.	434.00
KGS-3	FleetSync® & NEXEDGE® AVL & Messaging Software (Windows® 2000/XP compatible), **Note:** AVL operation /use is not required. Compatible with Microsoft®MapPoint®2004/2006 Software or certain type imported maps (purchase aftermarket separately) Refer to KGS-3 spec sheet for detailed features & requirements.	347.00

NEXEDGE® Wireless Image System — LIST

		LIST
KAS-11	NEXEDGE® Image Viewer Software (Windows® XP/VISTA/7 compatible), **Note:** • Wireless Image System Base Station Operation. • Works with NX-700/800 6.25/12.5Khz Digital mode, Radio to Radio, via Conventional Repeater, Trunking Repeater and Conventional IP Network. • Refer to Wireless Image Basic Operation and Installation Guide for detailed features & requirements.	250.00
KVT-11	NEXEDGE® Image Encoder Unit **Note:** • Wireless Image System Monitor Station Operation. • KAS-11 is required for programming. • Not include Cameras (purchase aftermarket separately). • Works with NX-700/800 6.25/12.5Khz Digital mode, Radio to Radio, via Conventional Repeater, Trunking Repeater and Conventional IP Network. • Refer to Wireless Image Basic Operation and Installation Guide for detailed features & requirements.	575.00
L-1687	NX-700/800 Flow Control Modification	60.00

SERVICE RELATED ACCESSORIES — LIST

		LIST
KPG-46UM	USB Programming interface cable	158.50
KPG-111DNK	Windows® Programming Software for NX-200/210/300/410/411/700/800/900/901 (Compliant with FCC Part 90 Narrowbanding)	103.25
KPG-163DNK	Programming software for NX-200/300/700/800 with PassPort®/NEXEDGE® Options Installed (12.5 /6.25 CH bandwidths only) • Programs NEXEDGE, PassPort®, LTR & analog Conventional modes. • Not for use on a standard NEXEDGE radios • **KPG-111D(N) Must be installed in PC prior to installing KPG-163DNK.**	165.00
PGM-NX-PP	PassPort ESN Generator device for NX-200/300/700/800 **Note: PGM-NX-PP is stocked in minimum quantities. Please anticipate a minimum of 30 day lead time and call order desk to verify availability.** • The TK-x180 PassPort ESN Generator device is NOT compatible for NX-x00 ESN loads. • The PGM-NX-PP requires older KPG-36AM (portable) & KPG-46AM (mobile) radio program interface cables with serial DB9 and an aftermarket DB9F-to-DB25M adapter ("KPG-XXUM" USB style cables are not compatible).	200.00

INSTALLATION / TUNING CHARGES   *LIST*

L-1085	NX-700/800 Programming (with basic TX/RX check)	37.50
L-1087	Install VGS-1 Voice Guide & Storage Unit **Note:** VGS-1 installation precludes any ANI or encryption board installation	25.00
L-1094	Install KAP-2 (Default) HR1/Internal Sp./PA	25.00
L-1098	Install Garmin GPS15XL-W in NX-Series mobile for FleetSync® AVL	100.00
L-1099	Assemble NX-700/800/900/901 with KRK-10 Remote Kit	42.00
L-1663	NX-700/800 P25 Conventional Software Upgrade **Must order a KWD-P25C firmware option**	N/C
L-1720	Install KWD-AE20K in NX-700/800/900/901 Mobiles (Must purchase module separately)	75.00
L-1721	Install KWD-AE21K in NX-700/800/900/901 Mobiles (Must purchase module separately)	75.00
L-1722	Install KWD-DE21K in NX-700/800/900/901 Mobiles (Must purchase module separately)	75.00
L-1743	Install PassPort®-Classic / NEXEDGE option in NX- 200/300/700/800 • Order one per radio • KPG-163DNK required to program radio	80.00
L-1744	Install PassPort®-Enhanced / NEXEDGE Option in NX- 200/300/700/800 • Order one per radio • KPG-163DNK required to program radio	108.35
L-1745	Field Retrofit PassPort®-Classic / NEXEDGE option for NX-200/300/700/800 (order one option per the number of ESNs required) • ESN activation file with ordered number of ESNs and firmware will be shipped on a CD ROM. Allow 15 business days ARO. • KPG-163DNK required to program radio • **Requires PGM-NX-PP PassPort ESN Generator device** • Note: The TK-x180 PassPort ESN Generator device is NOT compatible for NX-x00 ESN loads.	80.00
L-1746	Field Retrofit PassPort®-Enhanced / NEXEDGE Option for NX-200/300/700/800 orders (order option one per the number of ESNs required) • ESN activation file with ordered number of ESNs and firmware will be shipped on a CD ROM. Allow 15 business days ARO. • KPG-163DNK required to program radio • **Requires PGM-NX-PP PassPort ESN Generator device** • Note: The TK-x180 PassPort ESN Generator device is NOT compatible for NX-x00 ESN loads.	108.35
L-1776	Assemble NX-700/800/900/901 with KRK-13 Dual Remote Kit	42.00

MPT FIRMWARE/ACCESSORIES/TUNING   *LIST*

KPG-143DNK	Windows® Programming Software for NX series MPT (Compliant with FCC Part 90 Narrowbanding) (Dealer Level License ID included) **Note**: Must order **L-1727** for Network Level License ID & programming privileges	103.25
KWD-NX10MPT	MPT Trunking Field Upgrade Kit for NX series radio Must order **L-1729** **Note:** Not compatible with any other firmware options. Radio does not retain LTR trunking features once the MPT option is installed.	66.70
L-1726	Install MPT option in NX series radio	25.00
L-1727	Network Level License ID for KPG-143D(N) NX series Programmer	158.33
L-1728	Retrofit Install of MPT option in NX seires radio For previously purchased NX series radios. Order L-1728 through LMR order desk/rep. Ship radios to attn: Kenwood LMR Tuning, Long Beach for installation. Include Kenwood order number for L-1728 provided by order desk & copy of company P.O. or P.O. number. **Note:** see NX series MPT Introduction Sales Bulletin for details	85.00
L-1729	NX Series Radio MPT Firmware FIELD-UPGRADE (Must purchase KWD-NX10MPT separately)	NC

-- IMPORTANT NOTES --

Encryption modules, key loaders and radios containing encryption are export controlled by the U.S. Department of Commerce Bureau of Industry & Security EAR regulations and may either require an Export License, are eligible for a License Exception (ENC) or are exportable with No License Required (NLR) depending on the country, the consignee and the intended use. High level encryption is a special commodity that may require an export license to most countries. See www.bis.gov for more information regarding export regulations. DO NOT SHIP encryption items outside the U.S. without proper DOC/BIS Export Licenses and/or compliances.

Kenwood may request the following information to be submitted at time of order (this information must meet Kenwood internal approvals prior to shipment even if being returned to Kenwood later:

a) Initial Destination: Initial delivery point if different from Ultimate Destination
(customer distribution center, headquarters, dealership, manufacturer's representative)
* Business/Agency Name:
* Address:
* Contact Person Name:
* Contact Phone:
b) Ultimate Destination: Final delivery point(s); deployment/distribution
* Business/Agency Name:
* Address:
* Contact Person Name:
* Contact Phone:
c) Intended Use of Radios: Law enforcement, security, operations, etc.

KWD-AE20 AES FIPS140-2 SCM , NIST Validation & Customer Shipping
A secure delivery method direct to the end user customer is required by the NIST AES FIPS 140-2 validation rules. For U.S. Federal Government entities the SCM must ship from Kenwood USA Corporation directly to the end user customer by a trusted carrier (FEDEX, UPS or a designated Kenwood USA Corporation employee); shipping/handling by a dealer or other entity is not acceptable. This may or may not be required by local/state government agencies or business/industrial users. Please check with the end use customer about their AES encryption handling requirements before ordering. Kenwood will not be responsible for shipments of KWD-AE20K modules to erroneous destinations specified on an order.

NX-720HGK / 820HGK
NEXEDGE® VHF/UHF Digital & FM Analog Mobile Radios

All NX-x20 series mobiles include:
• Standard Microphone (KMC-35)
• Mounting Bracket
• DC Cable (KCT-23M)
• 15A Fuse
• Instruction Manual
• Premium Warranty: 3 Years*

* All Accessories / options: 1 Year

GENERAL FEATURES
• 50W (136-174 MHz) Model
• 45W (400-470, 450-520 MHz) Models
• 260 CH-GID / 128 Zones
• 10 Character Alphanumeric Aliases
• Backlit LCD & Keys
• Function/Status LCD Icons
• Transmit/Busy/Call Alert/Warn LED
• Blue Function/Status LED
• On/Off Power Control
• 4 Up/Down Selectors
• 6 Front PF Keys
• Emergency/AUX Key
• 4W Speaker Audio
• Zone / CH Number Voice Announcement
• DB-15 Accessory Connector
• 6 Programmable AUX I/Os
• KPG-141D Windows® FPU
• Flash Firmware Upgrading
• MIL-STD-810 C/D/E/F/G
• IP-54 Water & Dust Intrusion
• PC Serial Interface
• SDM Manual Input
• Transparent Data Mode
• Built-in GPS Receiver

DIGITAL COMMON
• NXDN® Digital Air Interface
• AMBE+2™ VOCODER
• 6.25 & 12.5 kHz Channels
• Over-the-Air Alias
• Over-the-Air Programming2
• Paging Call
• Emergency Call
• All Group Call
• Status Messaging
• Remote Stun/Kill/Check
• Short & Long Data Messages
• GPS Location with Voice
• NXDN® Scrambler Included

DIGITAL CONVENTIONAL MODE
• 64 Radio Access Numbers (RAN)
• Individual & Group Selective Call
• Mixed FM/Digital Operation
• Conventional IP Networks
• Site Roaming

DIGITAL TRUNKED MODE
• Individual Private Call
• Group Call & Broadcast Call
• Telephone Interconnect
• Transmission Trunked Mode
• Message Trunked Mode
• Call Queuing with Priority
• Late Entry (UID & GID)
• 4 Priority Monitor ID's
• Remote Group Add
• Failsoft Mode

MULTI-SITE IP NETWORKS COMPATIBLE
• 60,000 GIDs / UIDs
• Wide Area Group Call
• Auto Roaming Registration
• Group Registration

MULTI-SYSTEM COMPATIBLE
• 8 Trunked Networks per radio (each in a zone)
• UID Lists for each network

SCAN
• Single Zone / Multi-Zone / List Scan
• Dual Priority Scan (Conventional)

ANALOG MODE - GENERAL
• 12.5 kHz Channels
• Conventional & LTR® Zones
• FleetSync®/II, MDC-1200, DTMF
• QT / DQT & Two-Tone
 (Conventional Zones Only)
• Voice Inversion Scrambler (16 Codes)

MPT ZONES (option)
• Single-Site Trunking
• Multi-Site Network Trunking
• 8 Network Capacity
• Network Roaming / Registration

FleetSync® /II (FM)
• PTT ID ANI / Caller ID
• Selective / Group Call
• Emergency, Status & Text Messages

MDC-1200
• PTT ID ANI / Caller ID
• Emergency, Radio Check & Inhibit

MODEL		LIST
NX-720HGK	136-174 MHz 50W, 260 CH / 128 Zone	684.00
NX-820HGK	450-520 MHz 45W, 260 CH / 128 Zone	684.00
NX-820HGK2	400-470 MHz 45W, 260 CH / 128 Zone	684.00

MOBILE INSTALLATION ACCESSORIES		LIST
KCT-60M	DB15-to-15pin Molex Adapter Cable	29.00
KCT-18	Ignition sense cable (requires KCT-60M Acc. Cable Option)	13.70
KCT-36	Extension Cable for KCT-34/35/39/40M/60M; 117.6 inches (9.8 ft)	43.75
KLF-2	Line Filter (suppresses alternator whine, 25dB, 25A max).	42.00
KMB-10	Key lock adapter	26.30

CONTROL STATION INSTALLATION ACCESSORIES — LIST

KMC-9C	Control Station Desktop Microphone (8-pin mod. plug)	86.00
KMB-24	Control Station Mounting Case for KPS-15 Power Supplies (mobile mounting hardware included)	42.00
KPS-15	DC Switching Power Supply (117/230 VAC; 23A max. continuous, 25A peak)	173.00

MICROPHONES AND SPEAKERS — LIST

KMC-35	MIL-SPEC Standard electret mobile microphone (8-pin mod. plug) - same as supplied	52.50
KMC-36	MIL-SPEC Standard electret mobile microphone with 12-key DTMF (8-pin mod. plug)	94.50
KMC-9C	Control Station Desktop Microphone (8-pin mod. plug)	86.00
KES-3	External speaker (compact low profile; black case; 3.5 mm phono plug-in)	44.25
KES-5	External speaker, 40W max input **Note:** requires KCT-60M installed	61.25

SOFTWARE OPTIONS — LIST

KPG-150AP	NEXEDGE OTAP Manager Windows Software. • License Includes 10 radios / 1 Serial Port* • To add more radios/serial ports, you must contact Kenwood Systems Division [1-800-TRUNKING]	550.00

FleetSync® & NEXEDGE® AVL & MESSAGING — LIST

KAS-10	FleetSync® & NEXEDGE® AVL & Messaging Software with NEXEDGE Trunking VoIP Dispatch **Note:** Users can chose to operate Messaging, AVL or VoIP or all three if desired. Compatible with Windows® XP, VISTA & 7 and Microsoft®MapPoint®2006/2009/2010 (certain format bitmap images can be imported). Refer to KAS-10 product spec sheets and manuals for detials.	434.00
KGS-3	FleetSync® & NEXEDGE® AVL & Messaging Software (Windows® 2000/XP compatible), **Note:** AVL operation /use is not required. Compatible with Microsoft®MapPoint®2004/2006 Software or certain type imported maps (purchase aftermarket separately) Refer to KGS-3 spec sheet for detailed features & requirements.	347.00
KRA-40GM	GPS Antenna	42.00

SERVICE RELATED ACCESSORIES — LIST

KPG-46UM	USB Programming interface cable	158.50
KPG-141DNK	Windows® Programming Software for NX-220/320/720/820 (Compliant with FCC Part 90 Narrowbanding)	103.25

INSTALLATION / TUNING CHARGES — LIST

L-1751	NX-720HG/820HG Programming (with basic TX/RX check)	37.50

MPT FIRMWARE/ACCESSORIES/TUNING		LIST
KPG-143DNK	Windows® Programming Software for NX series MPT	103.25
	(Compliant with FCC Part 90 Narrowbanding)	
	(Dealer Level License ID included)	
	Note: Must order **L-1727** for Network Level License ID & programming privileges	
KWD-NX10MPT	MPT Trunking Field Upgrade Kit for NX series radio	66.70
	Must order **L-1729**	
	Note: Not compatible with any other firmware options.	
	Radio does not retain LTR trunking features once the MPT option is installed.	
L-1726	Install MPT option in NX series radio	25.00
L-1727	Network Level License ID for KPG-143D(N) NX series Programmer	158.33
L-1728	Retrofit Install of MPT option in NX seires radio	85.00
	For previously purchased NX series radios. Order L-1728 through LMR order desk/rep. Ship radios to attn:	
	Kenwood LMR Tuning, Long Beach for installation. Include Kenwood order number for L-1728 provided by	
	order desk & copy of company P.O. or P.O. number.	
	Note: see NX series MPT Introduction Sales Bulletin for details	
L-1729	NX Series Radio MPT Firmware FIELD-UPGRADE	NC
	(Must purchase KWD-NX10MPT separately)	

-- IMPORTANT NOTES --

Encryption modules, key loaders and radios containing encryption are export controlled by the U.S. Department of Commerce Bureau of Industry & Security EAR regulations and may either require an Export License, are eligible for a License Exception (ENC) or are exportable with No License Required (NLR) depending on the country, the consignee and the intended use. High level encryption is a special commodity that may require an export license to most countries. See www.bis.gov for more information regarding export regulations. DO NOT SHIP encryption items outside the U.S. without proper DOC/BIS Export Licenses and/or compliances.

Kenwood may request the following information to be submitted at time of order (this information must meet Kenwood internal approvals prior to shipment even if being returned to Kenwood later:

a) Initial Destination: Initial delivery point if different from Ultimate Destination
(customer distribution center, headquarters, dealership, manufacturer's representative)
* Business/Agency Name:
* Address:
* Contact Person Name:
* Contact Phone:
b) Ultimate Destination: Final delivery point(s); deployment/distribution
* Business/Agency Name:
* Address:
* Contact Person Name:
* Contact Phone:
c) Intended Use of Radios: Law enforcement, security, operations, etc.

KWD-AE20 AES FIPS140-2 SCM , NIST Validation & Customer Shipping
A secure delivery method direct to the end user customer is required by the NIST AES FIPS 140-2 validation rules. For U.S. Federal Government entities the SCM must ship from Kenwood USA Corporation directly to the end user customer by a trusted carrier (FEDEX, UPS or a designated Kenwood USA Corporation employee); shipping/handling by a dealer or other entity is not acceptable. This may or may not be required by local/state government agencies or business/industrial users. Please check with the end use customer about their AES encryption handling requirements before ordering. Kenwood will not be responsible for shipments of KWD-AE20K modules to erroneous destinations specified on an order.

NX-740HV / 840HU
NEXEDGE® VHF/UHF Digital & FM Analog Mobile Radios

All NX-x40 series mobiles include:
• Standard Microphone (KMC-35)
• Mounting Bracket
• DC Cable (KCT-23M)
• 15A Fuse
• Instruction Manual
• Premium Warranty: 3 Years*

* All Accessories / options: 1 Year

GENERAL FEATURES
• 50 W (136-174 MHz) Model
• 45 W (450-520 MHz) Model
• Max. 16 CH per Zone
• 2 Conventional Zones
• 2-Digit LED Channel Display
• Function/Status LED Dots
• Backlit Keys
• Transmit /Busy / Call Alert LED
• Blue Function/Status LED
• 9 Programmable Function Keys
• Emergency / AUX Key
• 4W Speaker Audio
• Voice CH# Announcement
• DB15 Accessory Interface
• 8 Programmable I/O Ports
• KPG-175D Windows® FPU
• MIL-STD-810 C/D/E/F
• IP-54 Water & Dust Intrusion
• PC Serial Interface

DIGITAL COMMON
• NXDN® Digital Air Interface
• AMBE+2™ VOCODER
• 6.25 kHz Channels
• Over-the-Air Alias (TX Only)
• Paging Call
• Emergency Call
• All Group Call
• Status Messaging
• Remote Stun/Kill
• Remote Check
• NXDN® Scrambler Included

DIGITAL CONVENTIONAL MODE
• 64 Radio Access Numbers (RAN)
• Individual & Group Selective Call
• Conventional IP Networks
• Site Roaming

SCAN
• Single Zone Scan
• Single Priority Scan

ANALOG MODE - GENERAL
• 12.5 kHz Channels
• Conventional Zones
• FleetSync®, MDC-1200, DTMF
• QT/DQT/Two-Tone
• Voice Inversion Scrambler (16 Codes)

FleetSync®
• PTT ID ANI
• Selective / Group Call
• Emergency Status

MDC-1200
• PTT ID ANI
• Emergency, Radio Check & Inhibit

MODEL		LIST
NX-740HVK	136-174 MHz VHF 50W, 16 Ch / 2 Zones	484.00
NX-840HUK	450-520 MHz UHF 45W, 16 Ch / 2 Zones	484.00

MOBILE INSTALLATION ACCESSORIES		LIST
KCT-60M	DB15-to-15pin Molex Adapter Cable	29.00
KCT-18	Ignition sense cable (requires KCT-60M Acc. Cable Option)	13.70
KCT-36	Extension Cable for KCT-34/35/39/40M/60M; 117.6 inches (9.8 ft)	43.75
KLF-2	Line Filter (suppresses alternator whine, 25dB, 25A max).	42.00
KMB-10	Key lock adapter	26.30

CONTROL STATION INSTALLATION ACCESSORIES		LIST
KMC-9C	Control Station Desktop Microphone (8-pin mod. plug)	86.00
KMB-24	Control Station Mounting Case for KPS-15 Power Supplies (mobile mounting hardware included)	42.00
KPS-15	DC Switching Power Supply (117/230 VAC; 23A max. continuous, 25A peak)	173.00

MICROPHONES AND SPEAKERS		LIST
KMC-35	MIL-SPEC Standard electret mobile microphone (8-pin mod. plug)-same as supplied	52.50
KMC-36	MIL-SPEC Standard electret mobile microphone with 12-key DTMF (8-pin mod. plug)	94.50
KES-3	External speaker (compact low profile; black case; 3.5 mm phono plug-in)	44.25
KES-5	External speaker, 40W max input **Note:** requires KCT-60M installed	61.25

SERVICE RELATED ACCESSORIES		LIST
KPG-46UM	USB Programming interface cable	158.50
KPG-175DK	Windows® Programming Software for NX-740H/840H	103.25

INSTALLATION / TUNING CHARGES		LIST
L-1778	NX-740H/840H Programming (with basic TX/RX check)	37.50

NX-900/901

NEXEDGE® 800/900 MHz Digital & FM Analog Mobile Radio

NX-900 mobile includes:
• Standard Microphone (KMC-35)
• Mounting Bracket
• DC Cable (KCT-23M)
• Blade Fuse
• Instruction Manual
• Premium Warranty: 3 Years*

* All Accessories / options: 1 Year

GENERAL FEATURES
• 15W (806-870 MHz) Model
• 15W (896-941 MHz) Model
• 512 CH-GID / 128 Zones
• Dash & Remote Mount
• 14 Character Alphanumeric Aliases
• Backlit Dot Matrix LCD
• Function/Status LCD Icons
• Multi-Language Display
• Date & 12/24 Hour Time Clock
• Transmit/Busy/Call Alert/Warn LED
• On/Off Power Control
• 4 Up/Down Selectors
• 6 Front PF Keys
• Emergency/AUX Key
• 4W Speaker Audio
• DB-25 Accessory Connector
• 9 Programmable AUX I/Os
• 2 Programmable AUX Outputs
• KPG-111D Windows® FPU
• Flash Firmware Upgrading
• MIL-STD-810 C/D/E/F/G
• IP54/55 Water & Dust Intrusion
• PC Serial Interface
• SDM Manual Input
• Transparent Data Mode
• GPS Receiver Option
• VGS-1 Voice Guide / Voice & GPS Data Storage Option

DIGITAL – GENERAL
• NXDN® Digital Air Interface
• AMBE+2™ VOCODER
• 6.25 & 12.5 kHz Channels
• Over-the- Air Alias
• Over-the- Air Programming
• Paging Call
• Emergency Call
• All Group Call
• Status Messaging
• Remote Stun/Kill
• Remote Check
• Short & Long Data Messages
• GPS Location with Voice
• NXDN® Scrambler Included
• DES Encryption Module Option
• AES & DES Encryption Module Option
• AES/DES Software Key Loader Option

DIGITAL CONVENTIONAL MODE
• 64 Radio Access Numbers (RAN)
• Individual & Group Selective Call
• Mixed FM/Digital Operation
• Conventional IP Networks
• Site Roaming

DIGITAL TRUNKING MODE
• Individual Private Call
• Group Call & Broadcast Call
• Telephone Interconnect
• Transmission Trunked Mode
• Message Trunked Mode
• Call Queuing with Priority
• Late Entry (UID & GID)
• 4 Priority Monitor ID's
• Remote Group Add
• Failsoft Mode

MULTI-SITE IP NETWORKS COMPATIBLE
• 60,000 GIDs / UIDs
• Wide Area Group Call
• Auto Roaming Registration
• Group Registration

MULTI-SYSTEM COMPATIBLE
• 8 Trunked Networks per radio (each in a zone)
• UID Lists for each network

SCAN
• Single Zone / Multi-Zone / List Scan
• Dual Priority Scan (Conventional)

ANALOG MODES - GENERAL
• 25** & 12.5 kHz Channels
• NPSPAC Channels**
• Conventional & LTR® Zones
• FleetSync®/II, MDC-1200, DTMF
• QT / DQT (Conventional Zones Only)
• Voice Inversion Scrambler
• Analog Scrambler Board Capability

MPT ZONES (option)
• Single-Site Trunking
• Multi-Site Network Trunking
• 8 Network Capacity
• Network Roaming / Registration

FleetSync®/II (FM)
• PTT ID ANI / Caller ID
• Selective / Group Call
• Emergency, Status & Text Messages

MDC-1200
• PTT ID ANI / Caller ID
• Emergency, Radio Check & Inhibit

*** 800 MHz model only.*

MODEL		LIST
NX-900K	806-870 MHz 15W, 512 CH / 128 Zone	995.00
NX-901K	896-941 MHz 15W, 512 CH / 128 Zone	995.00

MOBILE INSTALLATION ACCESSORIES		LIST
KAP-2	Horn Alert/P.A. Relay Option	63.00
KCT-46	Ignition sense cable (plugs directly into mobile chassis ignition sense line)	13.70
KLF-2	Line Filter (suppresses alternator whine, 25dB, 25A max).	42.00
KMB-10	Key lock adapter	26.30

MOBILE INSTALLATION ACCESSORIES (cont.)   LIST

KRK-10	Remote Control Kit (a remote control cable (23 ft) is included)	105.00
KRK-13	Dual Control Head Kit (a control head, remote cables, and KMC-35 microphone included) **Note:** some operations have limitations. Please refer to Application Note avlb. on Kenwood Tools. **Order: L-1776 if installation is required.**	959.00
KCT-23M	DC Cable (35-50W Dash mount; pos/neg. 10 ft. leads)	31.50
KCT-23M3	DC Cable (35-50W Remote mount; pos.23 ft.; neg. 3.3. ft. leads)	34.75

CONTROL STATION INSTALLATION ACCESSORIES   LIST

KMC-9C	Control Station Desktop Microphone (8-pin mod. plug)	86.00
KMB-24	Control Station Mounting Case for KPS-15 Power Supplies (mobile mounting hardware included)	42.00
KPS-15	DC Switching Power Supply (117/230 VAC; 23A max. continuous, 25A peak)	173.00

MICROPHONES AND SPEAKERS   LIST

KMC-35	MIL-SPEC Standard electret mobile microphone (8-pin mod. plug) - same as supplied	52.50
KMC-36	MIL-SPEC Standard electret mobile microphone with 12 keypad (8-pin mod. plug)	94.50
KMC-9C	Control Station Desktop Microphone (8-pin mod. plug)	86.00
KES-3	External speaker (compact low profile; black case; 3.5 mm phono plug-in)	44.25
KES-5	External speaker, 40W max input **Note:** requires KAP-2 (PA/HA unit) installed	61.25

SOFTWARE OPTIONS   LIST

KPG-150AP	NEXEDGE OTAP Manager Windows Software. • License Includes 10 radios / 1 Serial Port* • To add more radios/serial ports, you must contact Kenwood Systems Division [1-800-TRUNKING]	550.00
KPG-151AE	AES/DES Encryption Software Key Loader for KWD-DE21K/KWD-AE21K KPG-151AE is a U.S. DOC/BIS Export Controlled Item (ECCN 5D002A) **- See IMPORTANT NOTES -**	525.00

OPTION MODULES   LIST

KWD-AE20K	AES FIPS140-2 & DES Encryption Module for TK-5*10/5*20 & NX-*00/*10 Portables & Mobiles **Order L-1720** if installation is required. KWD-AE20K requires: a Motorola KVL3000 Plus key loader device. KWD-AE20K is an U.S. DOC/BIS Export Controlled Item (ECCN 5A002A.1) **- See IMPORTANT NOTES -**	998.00
KWD-AE21K	AES & DES Encryption Module for TK-5*10/5*20 & NX-*00/*10 Portables & Mobiles **Order L-1721** if installation is required. **Note**: Requires KPG-151AE software key loader or Motorola KVL3000 Plus key loader device. KWD-AE21K is an U.S. DOC/BIS Export Controlled Item (ECCN 5A002A.1) **- See IMPORTANT NOTES -**	998.00
KWD-DE21K	DES Encryption Module for TK-5*10/5*20 & NX-*00/*10 Portables & Mobiles **Order L-1722** if installation is required **Note**: Requires KPG-151AE software key loader or Motorola KVL3000 Plus key loader device KWD-DE21K is a U.S. DOC/BIS Export Controlled Item (ECCN 5A992A) **- See IMPORTANT NOTES -**	578.00
VGS-1	Voice Guide and Storage Unit	87.50

FleetSync ® & NEXEDGE ® AVL & MESSAGING — *LIST*

GA25MCX	Garmin On-dash Style Magnetic base GPS Antenna for GPS15XL-W **Note:** shipped loose only; Install GA25MCX antenna to GPS15XL-W before vehicle install; Refer to 180/NX-Series In-depth Technical Manuals for mobile installation.	62.00
GPS15XL-W	Garmin Internal GPS Receiver Board for FleetSync® & NEXEDGE® AVL **Note**: • Conventional & LTR operation • NEXEDGE® Conventional & Trunking operation • Requires GA25 MCX GPS antenna • Refer to 180/NX-Series & KGS-3/KAS-10 In-Depth Technical Manuals for installation, programming & KGS-3/KAS-10 software setup. Refer to www.garmin.com for GPS-15L-W technical specifications. • Option: Order **L-1098** for Kenwood Long Beach installation	130.25
KAS-10	FleetSync® & NEXEDGE® AVL & Messaging Software with NEXEDGE Trunking VoIP Dispatch **Note:** Users can chose to operate Messaging, AVL or VoIP or all three if desired. Compatible with Windows® XP, VISTA & 7 and Microsoft®MapPoint®2006/2009/2010 (certain format bitmap images can be imported). Refer to KAS-10 product spec sheets and manuals for detials.	434.00
KGS-3	FleetSync® & NEXEDGE® AVL & Messaging Software (Windows® 2000/XP compatible), **Note:** AVL operation /use is not required. Compatible with Microsoft®MapPoint®2004/2006 Software or certain type imported maps (purchase aftermarket separately) Refer to KGS-3 spec sheet for detailed features & requirements.	347.00

NEXEDGE ® Wireless Image System — *LIST*

KAS-11	NEXEDGE® Image Viewer Software (Windows® XP/VISTA/7 compatible), **Note:** • Wireless Image System Base Station Operation. • Works with NX-700/800 6.25/12.5Khz Digital mode, Radio to Radio, via Conventional Repeater, Trunking Repeater and Conventional IP Network. • Refer to Wireless Image Basic Operation and Installation Guide for detailed features & requirements.	250.00
KVT-11	NEXEDGE® Image Encoder Unit **Note:** • Wireless Image System Monitor Station Operation. • KAS-11 is required for programming. • Not include Cameras (purchase aftermarket separately). • Works with NX-700/800 6.25/12.5Khz Digital mode, Radio to Radio, via Conventional Repeater, Trunking Repeater and Conventional IP Network. • Refer to Wireless Image Basic Operation and Installation Guide for detailed features & requirements.	575.00
L-1687	NX-700/800 Flow Control Modification	60.00

SERVICE RELATED ACCESSORIES — *LIST*

KPG-111DNK	Windows® Programming Software for NX-200/210/300/410/411/700/800/900/901 (Compliant with FCC Part 90 Narrowbanding)	103.25
KPG-46UM	USB Programming interface cable	158.50

INSTALLATION / TUNING CHARGES | LIST

L-1087	Install VGS-1 Voice Guide & Storage Unit **Note:** VGS-1 installation precludes any ANI or encryption board installation	25.00
L-1094	Install KAP-2 (Default) HR1/Internal Sp./PA	25.00
L-1098	Install Garmin GPS15XL-W in NX-Series mobile for FleetSync® AVL	100.00
L-1099	Assemble NX-700/800/900/901 with KRK-10 Remote Kit	42.00
L-1687	NX-700/800/900/901 Flow Control Modification	60.00
L-1692	NX-900/901 Programming (with basic TX/RX check)	37.50
L-1720	Install KWD-AE20K in NX-700/800/900/901 Mobiles (Must purchase module separately)	75.00
L-1721	Install KWD-AE21K in NX-700/800/900/901 Mobiles (Must purchase module separately)	75.00
L-1722	Install KWD-DE21K in NX-700/800/900/901 Mobiles (Must purchase module separately)	75.00
L-1776	Assemble NX-700/800/900/901 with KRK-13 Dual Remote Kit	42.00

MPT FIRMWARE/ACCESSORIES/TUNING | LIST

KPG-143DNK	Windows® Programming Software for NX series MPT (Compliant with FCC Part 90 Narrowbanding) (Dealer Level License ID included) **Note**: Must order **L-1727** for Network Level License ID & programming privileges	103.25
KWD-NX10MPT	MPT Trunking Field Upgrade Kit for NX series radio Must order **L-1729** **Note:** Not compatible with any other firmware options. Radio does not retain LTR trunking features once the MPT option is installed.	66.70
L-1726	Install MPT option in NX series radio	25.00
L-1727	Network Level License ID for KPG-143D(N) NX series Programmer	158.33
L-1728	Retrofit Install of MPT option in NX seires radio For previously purchased NX series radios. Order L-1728 through LMR order desk/rep. Ship radios to attn: Kenwood LMR Tuning, Long Beach for installation. Include Kenwood order number for L-1728 provided by order desk & copy of company P.O. or P.O. number. **Note:** see NX series MPT Introduction Sales Bulletin for details	85.00
L-1729	NX Series Radio MPT Firmware FIELD-UPGRADE (Must purchase KWD-NX10MPT separately)	NC

-- IMPORTANT NOTES --
Encryption modules, key loaders and radios containing encryption are export controlled by the U.S. Department of Commerce Bureau of Industry & Security EAR regulations and may either require an Export License, are eligible for a License Exception (ENC) or are exportable with No License Required (NLR) depending on the country, the consignee and the intended use. High level encryption is a special commodity that may require an export license to most countries. See www.bis.gov for more information regarding export regulations. DO NOT SHIP encryption items outside the U.S. without proper DOC/BIS Export Licenses and/or compliances.

Kenwood may request the following information to be submitted at time of order (this information must meet Kenwood internal approvals prior to shipment even if being returned to Kenwood later:

a) Initial Destination: Initial delivery point if different from Ultimate Destination
(customer distribution center, headquarters, dealership, manufacturer's representative)
* Business/Agency Name:
* Address:
* Contact Person Name:
* Contact Phone:
b) Ultimate Destination: Final delivery point(s); deployment/distribution
* Business/Agency Name:
* Address:
* Contact Person Name:
* Contact Phone:
c) Intended Use of Radios: Law enforcement, security, operations, etc.

KWD-AE20 AES FIPS140-2 SCM , NIST Validation & Customer Shipping
A secure delivery method direct to the end user customer is required by the NIST AES FIPS 140-2 validation rules. For U.S. Federal Government entities the SCM must ship from Kenwood USA Corporation directly to the end user customer by a trusted carrier (FEDEX, UPS or a designated Kenwood USA Corporation employee); shipping/handling by a dealer or other entity is not acceptable. This may or may not be required by local/state government agencies or business/industrial users. Please check with the end use customer about their AES encryption handling requirements before ordering. Kenwood will not be responsible for shipments of KWD-AE20K modules to erroneous destinations specified on an order.

NX-920G

NEXEDGE® 800 MHz Digital & FM Analog Mobile Radios

All NX-x20 series mobiles include:
• Standard Microphone (KMC-35)
• Mounting Bracket
• DC Cable (KCT-23M)
• 15A Fuse
• Instruction Manual
• Premium Warranty: 3 Years*

* All Accessories / options: 1 Year

GENERAL FEATURES
• 15W (806-870 MHz) Model
• 260 CH-GID / 128 Zones
• 10 Character Alphanumeric Aliases
• Backlit LCD & Keys
• Function/Status LCD Icons
• Transmit/Busy/Call Alert/Warn LED
• Blue Function/Status LED
• On/Off Power Control
• 4 Up/Down Selectors
• 6 Front PF Keys
• Emergency/AUX Key
• 4W Speaker Audio
• Zone / CH Number Voice Announcement
• DB-15 Accessory Connector
• 6 Programmable AUX I/Os
• KPG-141D Windows® FPU
• Flash Firmware Upgrading
• MIL-STD-810 C/D/E/F/G
• IP-54 Water & Dust Intrusion
• PC Serial Interface
• SDM Manual Input
• Transparent Data Mode
• Built-in GPS Receiver

DIGITAL GENERAL
• NXDN® Digital Air Interface
• AMBE+2™ VOCODER
• 6.25 & 12.5 kHz Channels
• Over-the-Air Alias
• Over-the-Air Programming
• Paging Call
• Emergency Call
• All Group Call
• Status Messaging
• Remote Stun/Kill
• Remote Check
• Short & Long Data Messages
• GPS Location with Voice
• NXDN® Scrambler Included

DIGITAL CONVENTIONAL MODE
• 64 Radio Access Numbers (RAN)
• Individual & Group Selective Call
• Mixed FM/Digital Operation
• Conventional IP Networks
• Site Roaming

DIGITAL TRUNKING MODE
• Individual Private Call
• Group Call & Broadcast Call
• Telephone Interconnect
• Transmission Trunked Mode
• Message Trunked Mode
• Call Queuing with Priority
• Late Entry (UID & GID)
• 4 Priority Monitor ID's
• Remote Group Add
• Failsoft Mode

MULTI-SITE IP NETWORKS COMPATIBLE
• 60,000 GIDs / UIDs
• Wide Area Group Call
• Auto Roaming Registration
• Group Registration

MULTI-SYSTEM COMPATIBLE
• 8 Trunked Networks
• UID Lists for each network

SCAN
• Single Zone / Multi-Zone / List Scan
• Dual Priority Scan (Conventional)

FM MODES - GENERAL
• 25 & 12.5 kHz Channels
• NPSPAC Channels
• Conventional & LTR® or MPT Zones
• FleetSync®/II, MDC-1200, DTMF
• QT / DQT (Conventional Zones Only)
• Voice Inversion Scrambler (16 Codes)

MPT ZONES*
• Single-Site Trunking
• Multi-Site Network Trunking
• 8 Network Capacity
• Network Roaming / Registration

FleetSync®/II (FM)
• PTT ID ANI / Caller ID
• Selective / Group Call
• Emergency, Status & Text Messages

MDC-1200
• PTT ID ANI / Caller ID
• Emergency, Radio Check & Inhibit

* Optional feature

MODEL		LIST
NX-920GK	806-870 MHz 15W, 260 CH / 128 Zone	862.00

MOBILE INSTALLATION ACCESSORIES		LIST
KCT-18	Ignition sense cable (requires KCT-60M Acc. Cable Option)	13.70
KCT-36	Extension Cable for KCT-34/35/39/40M/60M; 117.6 inches (9.8 ft)	43.75
KCT-60M	DB15-to-15pin Molex Adapter Cable	29.00
KLF-2	Line Filter (suppresses alternator whine, 25dB, 25A max).	42.00
KMB-10	Key lock adapter	26.30

CONTROL STATION INSTALLATION ACCESSORIES		*LIST*
KMC-9C	Control Station Desktop Microphone (8-pin mod. plug)	86.00
KMB-24	Control Station Mounting Case for KPS-15 Power Supplies (mobile mounting hardware included)	42.00
KPS-15	DC Switching Power Supply (117/230 VAC; 23A max. continuous, 25A peak)	173.00

MICROPHONES AND SPEAKERS		*LIST*
KMC-35	MIL-SPEC Standard electret mobile microphone (8-pin mod. plug) - same as supplied	52.50
KMC-36	MIL-SPEC Standard electret mobile microphone with 12-key DTMF (8-pin mod. plug)	94.50
KMC-9C	Control Station Desktop Microphone (8-pin mod. plug)	86.00
KES-3	External speaker (compact low profile; black case; 3.5 mm phono plug-in)	44.25
KES-5	External speaker, 40W max input **Note:** requires KCT-60M installed	61.25

SOFTWARE OPTIONS		*LIST*
KPG-150AP	NEXEDGE OTAP Manager Windows Software. • License Includes 10 radios / 1 Serial Port* • To add more radios/serial ports, you must contact Kenwood Systems Division [1-800-TRUNKING]	550.00

FleetSync® & NEXEDGE® AVL & MESSAGING		*LIST*
KAS-10	FleetSync® & NEXEDGE® AVL & Messaging Software with NEXEDGE Trunking VoIP Dispatch **Note:** Users can chose to operate Messaging, AVL or VoIP or all three if desired. Compatible with Windows® XP, VISTA & 7 and Microsoft®MapPoint®2006/2009/2010 (certain format bitmap images can be imported). Refer to KAS-10 product spec sheets and manuals for detials.	434.00
KGS-3	FleetSync® & NEXEDGE® AVL & Messaging Software (Windows® 2000/XP compatible), **Note:** AVL operation /use is not required. Compatible with Microsoft®MapPoint®2004/2006 Software or certain type imported maps (purchase aftermarket separately) Refer to KGS-3 spec sheet for detailed features & requirements.	347.00
KRA-40GM	GPS Antenna	42.00

SERVICE RELATED ACCESSORIES		*LIST*
KPG-141DNK	Windows® Programming Software for NX-220/320/420/720/820/920 (Compliant with FCC Part 90 Narrowbanding)	103.25
KPG-46UM	USB Programming interface cable	158.50

INSTALLATION / TUNING CHARGES		*LIST*
L-1727	Network Level License ID for KPG-143D(N) NX series Programmer	158.33
L-1751	NX-720HG/820HG/920G Programming (with basic TX/RX check)	37.50

MPT FIRMWARE/ACCESSORIES/TUNING		*LIST*
KPG-143DNK	Windows® Programming Software for NX series MPT (Compliant with FCC Part 90 Narrowbanding) (Dealer Level License ID included) **Note**: Must order **L-1727** for Network Level License ID & programming privileges	103.25
KWD-NX10MPT	MPT Trunking Field Upgrade Kit for NX series radio Must order **L-1729** **Note:** Refer to NX series MPT Price Pages. Not compatible with any other firmware options. Radio does not retain LTR trunking features once the MPT option is installed.	66.70
L-1726	Install MPT option in NX series radio	25.00
L-1728	Retrofit Install of MPT option in NX seires radio For previously purchased NX series radios. Order L-1728 through LMR order desk/rep. Ship radios to attn: Kenwood LMR Tuning, Long Beach for installation. Include Kenwood order number for L-1728 provided by order desk & copy of company P.O. or P.O. number. **Note:** see NX series MPT Introduction Sales Bulletin for details	85.00
L-1729	NX Series Radio MPT Firmware FIELD-UPGRADE (Must purchase KWD-NX10MPT separately)	NC

TK-7180 / 8180

VHF/UHF Trunking & Conventional Mobile Radios

All 180 series mobiles include:
- Standard Microphone (KMC-35)
- Mounting Bracket
- DC Cable (KCT-23M)
- Blade Fuse
- Instruction Manual
- Premium Warranty: 3 Years*

* All Accessories / options: 1 Year

* TX Power is derated at 490-512 MHz

TK-8180K: 450-489 MHz (30 W)
            490-512 MHz (25 W)
TK-8180HK: 450-489 MHz (45 W)
            490-512 MHz (40 W)

GENERAL FEATURES
- 30/50 W (136-174 MHz)
- 30/45 W (450-520*, 400-470 MHz)
- Conventional & LTR® Zones
- MPT1327 Trunking Option
- Remote Control Head Option
- 12 Character Alphanumeric Aliases
- Backlit Dot Matrix LCD
- 3-Digit Sub-Display
- Function / Status LCD Icons
- RSSI Indicator
- Date & 12/24 Hour Time Clock
- Transmit / Busy / Call Alert / Warn LED
- 6 Backlit PF Keys
- Emergency / AUX Key
- Enhanced Kenwood Audio
- Front Panel Speaker
- Companded Audio
- Voice Inversion Scrambler Built-in
- Easy Option Port
- Encryption / ANI Board Control
- VGS-1 Voice Guide / Storage Option
- Emergency Call Features
- DTMF Encode / Decode
- Special Alert Tone Patterns
- Call Key
- Time Out Timer
- Busy Channel Lockout
- Timed Power Off
- DB-25 Accessory Connector
- 9 Programmable AUX I/Os
- 2 Programmable AUX Outputs
- Ignition Sense
- Public Address / Horn Alert Option
- MIL-Spec Standard Mic
- MIL-Spec 12-Key DTMF Mic Option
- Windows® Programming & Tuning
- Windows® Firmware Uploading
- Front Panel Test / Tune
- Cloning
- MIL-STD-810 C/D/E/F/G
- MIL-STD "Driven-Rain"
- IP-54/55 Water & Dust Intrusion

CONVENTIONAL ZONES
- 512 Channels / 128 Zones
- QT / DQT
- Two-Tone Decode
- Single / Two-Tone Encode
- Operator Selectable Tone
- Dual Priority Scan
- Single & Multi-Zone Scan
- List Scan

TRUNKED ZONES
- 512 GID / 128 Zones
- Kenwood LTR® Features

FleetSync®
- FleetSync® or FleetSync® II
- PTT ID Digital ANI
- Selective Call & Group Call
- Status Messaging
- Emergency Status
- Caller ID Display
- Short & Long Text Messages
- Power On/Off Status Messages
- Input / Output Status Messages
- FleetSync® GPS Ready
- Send GPS PF Key
- PTT ID & Emergency GPS Reporting
- Status Message Block GPS Reporting
- Ignition On/Off GPS Reporting
- VGS-1 GPS Data Storage
- PC Serial Interface

MPT ZONES (option)
- Single-Site Trunking
- Multi-Site Network Trunking
- 8 Network Capacity
- Network Roaming / Registration

MDC-1200
- PTT ID Digital ANI
- Caller ID Display
- Emergency Status
- Radio Check
- Radio Inhibit

MODEL		LIST
TK-7180K	136-174 MHz 30W, 512 CH / 128 Zone CONV-& LTR	586.00
TK-7180HK	136-174 MHz 50W, 512 CH / 128 Zone CONV-& LTR	718.00
TK-8180K	450-520 MHz 30W, 512 CH / 128 Zone CONV-& LTR	604.00
TK-8180HK	450-520 MHz 45W, 512 CH / 128 Zone CONV-& LTR	735.00
TK-8180K2	400-470 MHz 30W, 512 CH / 128 Zone CONV-& LTR	604.00
TK-8180HK2	400-470 MHz 45W, 512 CH / 128 Zone CONV-& LTR	735.00

MOBILE INSTALLATION ACCESSORIES		LIST
KAP-2	Horn Alert/P.A. Relay Option **Note**: For MPT, HA operates in Trunked Mode only	63.00
KCT-46	Ignition sense cable (plugs directly into mobile chassis ignition sense line)	13.70
KLF-2	Line Filter (suppresses alternator whine, 25dB, 25A max).	42.00
KMB-10	Key lock adapter	26.30
KRK-10	Remote Control Kit (a remote control cable (23 ft) is included)	105.00

CONTROL STATION INSTALLATION ACCESSORIES		*LIST*
KMC-9C	Control Station Desktop Microphone (8-pin mod. plug)	86.00
KMB-24	Control Station Mounting Case for KPS-15 Power Supplies (mobile mounting hardware included)	42.00
KPS-15	DC Switching Power Supply (117/230 VAC; 23A max. continuous, 25A peak)	173.00

MICROPHONES AND SPEAKERS		*LIST*
KMC-35	MIL-SPEC Standard electret mobile microphone (8-pin mod. plug) - same as supplied	52.50
KMC-36	MIL-SPEC Standard electret mobile microphone with 12 keypad (8-pin mod. plug)	94.50
KMC-9C	Control Station Desktop Microphone (8-pin mod. plug)	86.00
KES-3	External speaker (compact low profile; black case; 3.5 mm phono plug-in)	44.25
KES-5	External speaker, 40W max input **Note:** requires KAP-2 (PA/HA unit) installed	61.25

FleetSync® MOBILE DATA TERMINAL	*LIST*

KDS-100 FEATURES
• Increases FleetSync® Message Viewing: 40 Character x 6 line Dot Matix LCD
  - View 5 line Message List x 23 Char. @ line
    (vs. 1 line Message x 16 Char. scrolling)
  - View Short Text Messages (48 Char.) at once (vs. 48 Char. scrolling)
  - View Long Text Message (1024 Char.) at once (vs. not available)
• Increases FleetSync® ID Capacity: 511 IDs (vs. 100 IDs)
  - Base stations can handle larger size fleets
• Increases Status Message List Capacity: 89 Messages (vs. 50 Msgs.)
  - More dispatcher-to-fleet type messages for different job tasks
  - More fleet-to-dispatcher type messages for responses/statuses
• Increased Status Message Stack Memory: 367 Messages (vs. 9 Msg.s)
• Increased Short Text Message Stack Memory: 367 Messages (vs. 4 Msg.s)
• Litium Cell Memory Backup Battery (vs. radio-only volatile message memory)
• Large Backlit LCD & Function Keys
• Simple Installation
• Windows® Compatible Programming Software
• Programming Password Protection
• Built-in FleetSync® DSP Modem
• Real-Time Clock/Message Time Stamping
• 10 Status Message 'Hot Keys'
• Message Sorting & Deletion Screens
• Message Temporary Recycle Bin
• New Message Tone and LED Alerts
• Buzzer Volume Level
• Flashrom Firmeware Memory

KDS-100 Data Terminal includes:
• Mounting bracket
• Mounting hardware
• DC Cable

Important Note:
1. KDS-100 Compatible Dispatch Software May Be Required - The KDS-100 used a fleet unit will decode Status Messages and Selective Calls sent other FleetSync®-capable portables or mobiles, from a KDS-100 with a FleetSync® capable mobile (PC mode) or a KDS-100 with a non-FleetSync® capable mobile (air mode). However, Short and Long Text Messaging requires a base station FleetSync® capable mobile PC Serial Interfaced with computer running a FleetSync® compatible dispatch software capable of creating and sending Short/Long Text Messages. This software is available from vendors such as:
- IDA Corporation, Fargo ND: KenCall Dispatch software
- Kenwood Communications Corporation: Fleet Dispatch Pro software
2. The KDS-100 cannot be used simultaneously with a Kenwood KGP-2A/2B AVL unit.

KDS-100	FleetSync® Data Terminal **Note**: The KDS-100 pigtail cable (1.83 ft) combined with the KDS-100 mobile interface cables KCT-34/35/39/40M (1 ft.) and use a KCT-36 (9.8 ft.) for an extension.	625.00
KPG-71DK	Windows® Programming Software for KDS-100	103.25
KCT-40M	Radio Interface Cable for KGP-2A/2B & KDS-100	29.00
KCT-36	Extension Cable for KCT-34/35/39/40M; 117.6 inches (9.8 ft)	43.75

FleetSync ® MESSAGING		*LIST*
KAS-2FSD	FleetDispatchPRO: FleetSync® messaging dispatch software for PC **Note**: • TK-7180/8180 base mobile requires a DB-25 PC serial cable to connect to the base computer (purchase aftermarket seperately). • Supports FleetSync® PTT ID, Emergency, Status/Text Messaging for all FleetSync compatible portables & mobiles. • KDS-100 fleet units are compatible with the KAS-2FSD FleetSync calling & messaging features. • Refer to KAS-2FSD spec sheet for detailed features & requirements.	384.00

FleetSync ® AVL & MESSAGING		*LIST*
KAS-10	FleetSync® & NEXEDGE® AVL & Messaging Software with NEXEDGE Trunking VoIP Dispatch **Note:** Users can chose to operate Messaging, AVL or VoIP or all three if desired. Compatible with Windows® XP, VISTA & 7 and Microsoft®MapPoint®2006/2009/2010 (certain format bitmap images can be imported). Refer to KAS-10 product spec sheets and manuals for detials.	434.00
KGS-3	FleetSync® & NEXEDGE^{TM} AVL & Messaging Software (Windows® 2000/XP compatible), **Note:** AVL operation /use is not required. Compatible with Microsoft®MapPoint®2004/2006 Software or certain type imported maps (purchase aftermarket separately) Refer to KGS-3 spec sheet for detailed features & requirements.	347.00
GPS15XL-W	Garmin Internal GPS Receiver Board for FleetSync® AVL **Note**: • Conventional & LTR operation only • Requires GA25 MCX GPS antenna • Refer to 180/NX-Series & KGS-3 In-Depth Technical Manuals for installation, programming & KGS-3 software setup. Refer to www.garmin.com for GPS-15L-W technical specifications. • Option: Order **L-1033** for Kenwood Long Beach installation	130.25
GA25MCX	Garmin On-dash Style Magnetic base GPS Antenna for GPS15XL-W **Note**: shipped loose only; Install GA25MCX antenna to GPS15XL-W before vehicle install; Refer to 180/NX-Series In-depth Technical Manuals for mobile installation.	62.00

OPTION MODULES		*LIST*
VGS-1	Voice Guide and Storage Unit	87.50

FRIMWARE OPTIONS		*LIST*
KWD-180MPT	MPT Trunking Field Upgrade Kit for 180-Series Must order **L-1620** **Note:** Refer to 180-Series MPT Price Pages and 180-Series MPT In-Depth Technical Manuals for feature details (available from technical support). Not compatible with any other firmware options Radio does not retain all normal 180-Series conventional or LTR trunking features once the MPT option is installed.	43.75
KWD-180TFS	TFS-- Tactical Feature Set-- Field Upgrade Kit for 180-Series Must order **L-1625** **Note**: Refer to 180-Series "Tactical Feature Set" In-Depth Technical Manual for feature details (available from technical support). Not compatible with any other firmware options.	105.00

SERVICE RELATED ACCESSORIES | LIST

KPG-46UM	USB Programming interface cable	158.50
KPG-89DNK	Windows® Programming Software for TK-2180/3180/7180/8180 (Compliant with FCC Part 90 Narrowbanding) **Note:** Self-programming & Tactical Feature Set* functions are not available. *** KPG-89DK is required for Tactical Feature Set. KPG-89DK is no longer supported or distributed by Kenwood**	103.25
**************** E30-3382-05	**Contact Kenwood Parts for Price and Availability 800-367-7514 on the following:** Clone cable	---
J29-0662-03	Mounting bracket for TK-7180/8180/7160/8160--same as supplied w/ radio (order N99-2039-05 for mounting screw set)	---

INSTALLATION / TUNING CHARGES | LIST

L-962	Install VGS-1 Voice Guide & Storage Unit **Note:** VGS-1 installation precludes any ANI or encryption board installation	25.00
L-965	TK-7180/8180 Programming (with basic TX/RX check)	37.50
L-966	Install KAP-2 (Default) HR1/Internal Sp./PA	25.00
L-968	Assemble TK-7180/8180 with KRK-10 Remote Kit	42.00
L-1010	Install KAP-2 (External Sp.) HR1/External Sp./PA	25.00
L-1033	Install Garmin GPS15XL-W in 180-Series mobile for FleetSync® AVL **Note**: The KGS-3 & GPS15XL-W are not compatible with KGP-2A/2B AVL systems	100.00
L-1052	TK-7180/8180 TFS INSTALLATION **Note:** KPG-89DK is required to program the TFS (Tactical Feature Set). KPG-89DK is no longer supported or distributed by Kenwood. TFS will not workwith KPG-89DNK.	100.00
L-1620	180 Portable KWD-180MPT FIELD-UPGRADE (Must purchase KWD-180MPT separately)	NC
L-1625	180 Portable KWD-180TFS FIELD-UPGRADE (Must purchase KWD-180TFS separately)	NC

MPT FIRMWARE/ACCESSORIES/TUNING | LIST

KMC-32	Standard mobile microphone with 16-key DTMF (8-pin mod. plug)	70.00
KPG-96DNK	Windows® Programming Software for 180-Series MPT (Compliant with FCC Part 90 Narrowbanding) (Dealer Level License ID included) **Note**: Must order **L-1013** for Network Level License ID & programming privileges	103.25
L-1012	Install MPT option in 180-Series radio	16.67
L-1013	Network Level License ID for KPG-96D(N) 180-Series Programmer	158.33
L-1014	Retrofit Install of MPT option in 180-Seires radio (for previously purchased 180-Series radios.) Order **L-1014** through LMR order desk/rep. Ship radios to attn: Kenwood LMR Tuning, Long Beach for installation. Include Kenwood order number for L-1014 provided by order desk & copy of company P.O. or P.O. number. **Note:** Only certain Serial Number Lots produced in late 2004 and later can be retrofitted - see 180-Series MPT Introduction Sales Bulletin for details	85.00

TK-7360HV / 8360HU V2.0
VHF/UHF Trunking & Conventional Mobile Radios

All 360 series mobiles include:
• Standard Microphone (KMC-35)
• Mounting Bracket
• DC Cable (KCT-23M)
• 15A Fuse
• Instruction Manual
• Standard Warranty: 2 Years*

* All Accessories / options: 1 Year

GENERAL FEATURES
• 50 W (136-174 MHz) Model
• 45 W (450-520 MHz) Model
• Conventional & LTR® Zones
• 10-Character Alphanumeric Aliases
• Backlit LCD & Keys
• Function/Status LCD Icons
• Blue Function / Status LED
• Transmit /Busy / Call Alert LED
• 10 Programmable Function Keys
• Emergency / AUX Key
• Front Panel Speaker
• Companded Audio
• Voice Inversion Scrambler Built-in
• 16 Scrambler Codes (per CH)
• Encryption / Board Control
• Emergency Call Features
• Lone Worker Alert
• DTMF Encode / Decode
• Special Alert Tone Patterns
• Busy Channel Lockout
• Time Out Timer
• Timed Power Off
• DB15 Accessory Interface
• 8 Programmable I/O Ports
• Ignition Sense
• Public Address / Horn Alert Output
• MIL-Spec Standard Mic
• MIL-Spec 12-Key DTMF Mic Option
• Windows® Programming & Tuning
• Easy Option Ports (26-pin)
• Cloning
• Voice Guide & Storage (Option)
• MIL-STD-810 C/D/E/F/G
• IP54 Water & Dust Intrusion

CONVENTIONAL ZONES
• 128 Channels / 128 Zones
• QT / DQT
• Two-Tone Decode
• Single & Two-Tone Encode
• Operator Selectable Tone
• Single Priority Scan
• Single / Multi-Zone Scan

TRUNKED ZONES
• 128 GID / 128 Zones
• Kenwood LTR® Feature

FleetSync® /II (FM)
• PTT ID Digital ANI
• Selective Call & Group Call
• Paging Call
• Status Messaging
• Emergency Status
• Caller ID Display
• Input / Output Status Messages
• FleetSync® GPS Ready
• Send GPS PF Key
• PTT ID & Emergency GPS Reporting
• GPS Auto Reporting

MDC-1200
• PTT ID Digital ANI
• Caller ID Display
• Emergency Status
• Radio Check
• Radio Inhibit

MODEL		LIST
TK-7360HVK	136-174 MHz 50W, 128 CH / 128 Zone CONV-& LTR	467.00
TK-8360HUK	450-520 MHz 45W, 128 CH / 128 Zone CONV-& LTR	484.00

MOBILE INSTALLATION ACCESSORIES		LIST
KCT-60M	DB15-to-15pin Molex Adapter Cable	29.00
KCT-18	Ignition sense cable (requires KCT-60M Acc. Cable Option)	13.70
KCT-36	Extension Cable for KCT-34/35/39/40M/60M; 117.6 inches (9.8 ft)	43.75
KLF-2	Line Filter (suppresses alternator whine, 25dB, 25A max).	42.00
KMB-10	Key lock adapter	26.30

CONTROL STATION INSTALLATION ACCESSORIES		LIST
KMC-9C	Control Station Desktop Microphone (8-pin mod. plug)	86.00
KMB-24	Control Station Mounting Case for KPS-15 Power Supplies (mobile mounting hardware included)	42.00
KPS-15	DC Switching Power Supply (117/230 VAC; 23A max. continuous, 25A peak)	173.00

MICROPHONES AND SPEAKERS   *LIST*

KMC-35	MIL-SPEC Standard electret mobile microphone (8-pin mod. plug) - same as supplied	52.50
KMC-36	MIL-SPEC Standard electret mobile microphone with 12-key DTMF (8-pin mod. plug)	94.50
KMC-9C	Control Station Desktop Microphone (8-pin mod. plug)	86.00
KES-3	External speaker (compact low profile; black case; 3.5 mm phono plug-in)	44.25
KES-5	External speaker, 40W max input **Note:** requires KCT-60M installed	61.25

FleetSync® AVL   *LIST*

GPS15XL-W	Garmin Internal GPS Receiver Board for FleetSync® AVL **Note**: • Conventional operation only • Requires GA25 MCX GPS antenna • Refer to www.garmin.com for GPS-15L-W technical specifications. • Option: Order **L-1690** for Kenwood Long Beach installation	130.25
GA25MCX	Garmin On-dash Style Magnetic base GPS Antenna for GPS15XL-W **Note**: shipped loose only; Install GA25MCX antenna to GPS15XL-W before vehicle install.	62.00

OPTION MODULES   *LIST*

VGS-1	Voice Guide and Storage Unit	87.50

SERVICE RELATED ACCESSORIES   *LIST*

KPG-135DNK	Windows® Programming Software for TK-7360/8360	103.25
KPG-46UM	USB Programming interface cable	158.50
******************* E30-3382-05	**Contact Kenwood Parts for Price and Availability 800-367-7514 on the following:** Clone cable	---
J29-0662-03	Mounting bracket - same as supplied w/ radio (order N99-2039-05 for mounting screw set)	---

INSTALLATION / TUNING CHARGES   *LIST*

L-1689	TK-7360/8360 Programming (with basic TX/RX check)	37.50
L-1690	Install Garmin GPS15XL-W in 360-Series mobile for FleetSync® AVL	100.00
L-1693	Install VGS-1 Voice Guide & Storage Unit **Note:** VGS-1 installation precludes any ANI or encryption board installation	25.00

TK-7302HV / 8302HU
VHF/UHF Conventional Mobile Radios

All 302 series mobiles include:
- Standard Microphone (KMC-35)
- Mounting Bracket
- DC Cable (KCT-23M)
- 15A Fuse
- Instruction Manual
- Standard Warranty: 2 Years*

* All Accessories / options: 1 Year

GENERAL FEATURES
- 50 W (136-174 MHz) Model
- 45 W (450-520 MHz) Model
- Conventional Zones
- 16 Channels / 2 Zones
- Single Priority Scan
- Single / Multi-Zone Scan
- 2-Digit LED Channel Display
- Function/Status LED Dots
- Blue Function/Status LED
- Transmit /Busy / Call Alert LED
- Backlit Keys
- 9 Programmable Function Keys
- Emergency / AUX Key
- Front Panel Speaker
- Companded Audio
- Voice CH# Announcement (8 Languages)
- Voice Inversion Scrambler Built-in
- 16 Scrambler Codes (per CH)
- Encryption Board Control
- Emergency Call Features
- Lone Worker Alert
- QT / DQT
- Operator Selectable Tone
- Two-Tone Decode
- Single & Two-Tone Encode
- DTMF Encode / Decode
- Special Alert Tone Patterns
- Busy Channel Lockout
- Time Out Timer
- Timed Power Off

- DB15 Accessory Interface
- 8 Programmable I/O Ports
- Ignition Sense
- Public Address / Horn Alert Output
- MIL-Spec Standard Mic
- MIL-Spec 12-Key DTMF Mic Option
- Windows® Programming & Tuning
- Cloning
- MIL-STD-810 C/D/E/F/G
- IP-54 Water & Dust Intrusion

FleetSync® /II (FM)
- PTT ID Digital ANI
- Selective Call & Group Call
- Paging Call
- Status Messaging
- Emergency Status
- Input / Output Status Messages
- FleetSync® GPS Ready
- Send GPS PF Key
- PTT ID & Emergency GPS Reporting
- Ignition On/Off GPS Reporting

MDC-1200
- PTT ID Digital ANI
- Emergency Status
- Radio Check
- Radio Inhibit

MODEL		LIST
TK-7302HVK	136-174 MHz 50W, 16 CH / 2 Zone Conventional	350.00
TK-8302HUK	450-520 MHz 45W, 16 CH / 2 Zone Conventional	367.00

MOBILE INSTALLATION ACCESSORIES		LIST
KCT-60M	DB15-to-15pin Molex Adapter Cable	29.00
KCT-18	Ignition sense cable (requires KCT-60M Acc. Cable Option)	13.70
KCT-36	Extension Cable for KCT-34/35/39/40M/60M; 117.6 inches (9.8 ft)	43.75
KLF-2	Line Filter (suppresses alternator whine, 25dB, 25A max).	42.00
KMB-10	Key lock adapter	26.30

CONTROL STATION INSTALLATION ACCESSORIES		LIST
KMC-9C	Control Station Desktop Microphone (8-pin mod. plug)	86.00
KMB-24	Control Station Mounting Case for KPS-15 Power Supplies (mobile mounting hardware included)	42.00
KPS-15	DC Switching Power Supply (117/230 VAC; 23A max. continuous, 25A peak)	173.00

KENWOOD

MICROPHONES AND SPEAKERS		*LIST*
KMC-35	MIL-SPEC Standard electret mobile microphone (8-pin mod. plug) - same as supplied	52.50
KMC-36	MIL-SPEC Standard electret mobile microphone with 12-key DTMF (8-pin mod. plug)	94.50
KMC-9C	Control Station Desktop Microphone (8-pin mod. plug)	86.00
KES-3	External speaker (compact low profile; black case; 3.5 mm phono plug-in)	44.25
KES-5	External speaker, 40W max input **Note:** requires KCT-60M installed	61.25

FleetSync® AVL		*LIST*
GPS15XL-W	Garmin Internal GPS Receiver Board for FleetSync® AVL **Note**: • Conventional operation only • Requires GA25 MCX GPS antenna • Refer to www.garmin.com for GPS-15L-W technical specifications. • Option: Order **L-1643** for Kenwood Long Beach installation	130.25
GA25MCX	Garmin On-dash Style Magnetic base GPS Antenna for GPS15XL-W **Note**: shipped loose only; Install GA25MCX antenna to GPS15XL-W before vehicle install.	62.00

SERVICE RELATED ACCESSORIES		*LIST*
KPG-46UM	USB Programming interface cable	158.50
KPG-124DNK	Windows® Programming Software for TK-7302/8302 (Compliant with FCC Part 90 Narrowbanding)	103.25
*****************	**Contact Kenwood Parts for Price and Availability 800-367-7514 on the following:**	
E30-3382-05	Clone cable	---
J29-0662-03	Mounting bracket - same as supplied w/ radio (order N99-2039-05 for mounting screw set)	---

INSTALLATION / TUNING CHARGES		*LIST*
L-1642	TK-7302/8302 Programming (with basic TX/RX check)	37.50
L-1643	Install Garmin GPS15XL-W in 302-Series mobile for FleetSync® AVL	100.00

KENWOOD

TK-6110
Compact Low Band Mobile Radio

All 6110 series mobiles include:
• Standard Microphone (KMC-27B)
• Mounting Bracket
• DC Cable (KCT-23M)
• Instruction Manual
• Standard Warranty: 2 Years*

* All Accessories / options: 1 Year

GENERAL FEATURES
• 70 W (29.7-37.0, 35.0-50.0 MHz)
• 32 Channels
• Single Priority Scan
• 8 Character Alphanumeric LCD
• 3 Digit Sub-Display and Icons
• Transmit / Busy / Call Allert / Warn LED
• Up/Down Channel Selector
• Volume Knob
• Power On/Off Button
• 7 Programmable Radio Keys
• Front Panel Speaker
• Noise Blanker Function
• Encryption / ANI Board Control
• Emergency Call Features

• QT/DQT Encode & Decode
• Operator Selectable Tone
• Two Tone Decode
• DTMF Encode & Decode
• Time Out Timer
• Busy Channel Lockout
• 15 Pin Accessory Connector
• MIL-Spec / Noise-Cancel Microphone
• M-Type Antenna Connector
• Ignition Sense
• Timed Power Off
• Horn Alert
• Cloning
• PC Programming & Tuning
• MIL-STD-810 C/ D/ E

IMPORTANT NOTICE [Power/Bandwidth vs. VSWR]
1. The TK-6110 mobiles output power will be significantly reduced with VSWR = 1.5 or greater.
TK-6110 Output Power Performance (nominal; transmission line losses not included)

VSWR	Output Power
1.2 or less	70W or more
1.3-1.5	60W or more
More than 1.5	60W or less

TK-6110K

Frequency	Bandwidth
29.7MHz	0.4MHz (+/-0.20MHz)
33.0MHz	0.4MHz (+/-0.20MHz)
37.0MHz	1.0MHz (+/-0.50MHz)

TK-6110K2

Frequency	Bandwidth
35.0MHz	1.0MHz (+/-0.5MHz)
40.0MHz	1.8MHz (+/-0.9MHz)
50.0MHz	1.8MHz (+/-0.9MHz)

2. The TK-6110 design eliminates the need for the following accessories typical of Kenwood compact mobiles:
  a. KCT-19: 15-pin accessory connector is built in.
  b. KAP-1: the Horn Alert output is provided on the 15-pin connector (see service manual for maximum current rating).
Audio Power: 3W internal speaker / 10W external speaker (KES-5).
FleetSync® is not available for the TK-6110.
KES-3 is not compatible, use KES-5.
The following frequencies are not allowed in the TK-190 and TK-6110 models: 33.6 MHz and 42.0 MHz.

MODEL		*LIST*
TK-6110K	VHF Low Band 29.7 – 37.0 MHz 70W, 32 Channels	788.00
TK-6110K2	VHF Low Band 35.0 – 50.0 MHz 70W, 32 Channels	788.00

CABLES		*LIST*
KCT-18	Ignition sense cable	13.70

MOBILE INSTALLATION ACCESSORIES		*LIST*
KLF-2	Line Filter (suppresses alternator whine, 25dB, 25A max).	42.00

MICROPHONES AND SPEAKERS		*LIST*
KMC-27A	MIL-SPEC & Noise Canceling dynamic mobile microphone (8-pin mod. plug)	104.00
KMC-27B	Standard dynamic mobile microphone (8-pin mod. plug)	42.00
KMC-28A	MIL-SPEC & Noise Canceling dynamic mobile microphone (8-pin mod. plug) w/ DTMF	163.00
KMC-9C	Control Station Desktop Microphone (8-pin mod. plug)	86.00
KES-5	Ext. speaker, 40W max input; blk,. case, 5"x5"x2-9/16" **Note**: plugs into TK-6110 6-pin molex acc. conn.	61.25

MISCELLANEOUS ITEMS		*LIST*
KPS-15	DC Switching Power Supply (117/230 VAC; 23A max. continuous, 25A peak)	173.00

SERVICE RELATED ACCESSORIES		*LIST*
KPG-46UM	USB Programming interface cable	158.50
KPG-59DK	Program Software for TK-190/6110 (Version 2.00)	68.50
*****************	**Contact Kenwood Parts for Price and Availability 800-367-7514 on the following:**	
E30-3382-05	Clone cable	---
J29-0662-03	Mounting bracket (Same as supplied)	---
N99-0395-05	Screw set for mounting bracket Part #J29-0662-03	---

INSTALLATION / TUNING CHARGES		*LIST*
L-911	TK-190/TK-6110 Programming (with basic TX/RX check)	25.00