

**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

*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. 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**

- 6 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
- Built-in Motion Sensor
- Built-in 56-bit DES Encryption (4 keys programmable by KPG-D1K)
- Active Noise Reduction (ANR)
- KPG-D1K 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

**OPTIONAL**

**GENERAL FEATURES**

- 4000 Channel (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 (KWD-5106DT License Keys Activation required)

**RADIO**  
*Standard Key Models*

NX-5200K2	VHF (136-174MHz), 6.0 Watts	NXDN Conventional / TYPE-C Trunking
NX-5300K2	UHF (450-520MHz), 5.0 Watts	NXDN Conventional / TYPE-C Trunking
NX-5300K5	UHF (380-470MHz), 5.0 Watts	NXDN Conventional / TYPE-C Trunking

*Full Key Models*

NX-5200K3	VHF (136-174MHz), 6.0 Watts	NXDN Conventional / TYPE-C Trunking
NX-5300K3	UHF (450-520MHz), 5.0 Watts	NXDN Conventional / TYPE-C Trunking
NX-5300K6	UHF (380-470MHz), 5.0 Watts	NXDN Conventional / TYPE-C Trunking


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**CSA US APPROVED MODELS**


**Must Order L-5039 & KNB-LS5M Intrinsically Safe Battery per radio**  
*\*Note: microSD card is not allowed to use as Intrinsically Safe Option.*

NX-5200-ISCK2	VHF (136-174MHz), 6.0 Watts	NXDN Conventional / TYPE-C Trunking
NX-5200-ISCK3	VHF (136-174MHz), 6.0 Watts	NXDN Conventional / TYPE-C Trunking
NX-5300-ISCK2	UHF (450-520MHz), 5.0 Watts	NXDN Conventional / TYPE-C Trunking
NX-5300-ISCK3	UHF (450-520MHz), 5.0 Watts	NXDN Conventional / TYPE-C Trunking
NX-5300-ISCK5	UHF (380-470MHz), 5.0 Watts	NXDN Conventional / TYPE-C Trunking
NX-5300-ISCK6	UHF (380-470MHz), 5.0 Watts	NXDN Conventional / TYPE-C Trunking

**LICENSING SYSTEM**



**Note:** KPT-300LMC is compatible with Windows Vista/7/8/8.1/10 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 <https://int.kenwoodusa.com> and is also supplied with applicable software, such as KPG-D1K, 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 an "[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	NC
L-5000	KPT-300LMC License Key	NC	NC

**SOFTWARE LICENSING OPTIONS**

**TO PLACE AN ORDER FOR SOFTWARE:**

1. Complete a Software License Key Request Form.
2. Submit along with your PO to the Land Mobile Order Desk via:
  - a) E-Mail: [coca@us.jvckenwood.com](mailto:coca@us.jvckenwood.com)
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.

**Note: A unique license key is required for each PC with software installed. A single license key will not authorize multiple PCs.**

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## NX-5200/5300

VHF/UHF Digital & FM Analog Portable Radios

### FIELD PROGRAMMING UNIT (FPU)

**KPG-D1K** License Key for KPG-D1K  
Programming Software for NX-5000 Portable/Mobile (Windows® Vista/7/8/8.1)  
*Note: Requires KPT-300LMC for authentication*

**P25 Trunked Programming Capability (licensed by either 1 or 2 below):**

**1. USB Key Type: Advanced System Key (ASK)- See KWD-ASK-MK and AK**

- For NX-5000 series radios.
- KWD-ASK-MK (Master Key): For trunked system operator (SYSOP). Required for activating KWD-ASK-AK Access keys. Securely embeds/encrypts the HSID.
- KWD-ASK-AK (Access Key): For Dealers/contractors. Activated by KWD-ASK-MK Master Key.
- KPG-D1K supports up to 16 KWD-ASK-AK Access Keys (16 trunked networks).

**2. Software Key Type: System Key File (SKF)- See L-5005**

- For NX-5000 series radios.
- 3-digit HEX System ID (HSID) with verifiable written authorization required from SYSOP.
- Utilized by both SYSOPs and Dealers/Contractors. But Dealers/Contractors must be permitted from SYSOP to order and use SKF.
- Kenwood ships an encrypted \*.SKF file via E-Mail to the address provided on the P25 Trunking System Keys Request Form.
- The \*.SKF securely embeds/encrypts the HSID.

### OVER THE AIR PROGRAMMING (OTAP)

**KPG-180AP** OTAP Manager Software  
• License includes 50 radios / 1 NXDN Conventional and Type-C Air Communication Profile

**Note:**

- Requires KPT-300LMC for authentication.
- Radio to Radio OTAP for P25 Conventional system requires KWD-AP3-P25 license.
- To add more radios/communication profiles, you must contact Kenwood.

### BATTERY READER

**KAS-12K** License Key for KAS-12  
Battery Reader Software for KNB-L1/2/3/N4/LS5 & KSC-Y32 (Windows® Vista/7/8/8.1)  
*Note: Requires KPT-300LMC for authentication*

#### SOFTWARE UPGRADE LICENSES FOR KAS-12

**Note: Upgrade License attaches to one computer running KAS-12 software. All additional licenses require KPT-300LMC for authentication.**

**KAS-12PRO** Add Battery Management with Database  
**Note:** A Windows® PC may be required as a Database Server which KAS-12DU (Free) software is installed.

### 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 a Radio Feature Request Form.
2. Submit the completed form along with your PO to the Land Mobile Order Desk via:
  - a) E-Mail: [coca@us.jvckenwood.com](mailto:coca@us.jvckenwood.com)
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 can be transferable from a radio to radio within 72 hours count started from being authenticated to a Radio. Once license transferred radio is authenticated by KPT-300LMC, 72 hours is reset and count started from first.**

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**General Radio Features**

KWD-5000CH	License Key for 4000 Channel Expansion
KWD-5001FP	License Key for Front Panel Programming
KWD-5002SD	License Key for microSD Memory Card Slot Activation
KWD-5003BT	License Key for Bluetooth Serial Port Profile (Required for Date Communication) <b>Note:</b> Voice Communication for Bluetooth Head Set does NOT need KWD-5003BT. <i>You can pair with any Bluetooth audio device without this option.</i>

**P25 Radio Features**

KWD-5100CV	License Key for P25 Conventional
KWD-5101TR	License Key for P25 Phase 1 Trunking (requires KWD-5100CV)
KWD-5102TR	License Key for P25 Phase 2 Trunking (requires KWD-5100CV & KWD-5101TR)
KWD-5103RK	License Key for P25 OTAR (requires KWD-5106DT for a Trunking Operation)
KWD-5105VT	License Key for P25 Conventional Voting Scan
KWD-5106DT	License Key for P25 Trunking OTAR/GPS Data <b>Note:</b> Conventional (OTAR/GPS) does NOT require KWD-5106DT.

**ANTENNAS**

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

**BATTERIES AND CHARGERS**

KNB-L1M	Li-ion 2000mAh (Compact Slim)
KNB-L2M	Li-ion 2600mAh (Standard)
KNB-L3M	Li-ion 3400mAh (High Capacity)
KNB-N4M	Ni-MH 2500mAh
KNB-LS5M	CSA US Intrinsically Safe Battery Li-ion 2000mAh <b>Note:</b> Due to the I.S. circuitry on the KNB-LS5M, the cells may lose charge during storage. To prevent loss of capacity during storage, charge the battery for 10 minutes at least every 4 months with the KSC-32, KSC-Y32K or KSC-326K. <b>[Intrinsically Safe Option]</b>
KBP-8M	AA Alkaline Refillable Battery Pack (12 AA: 9V). Cells not included. <b>Note:</b> The color of the case is International Orange.
KSC-Y32K	Rapid rate single unit charger (Long-Life Charge Mode capable with KAS-12 Software)
KSC-32	Rapid rate single unit charger
KSC-326K	Rapid rate 6-unit charger
KMB-30M	Wall Mount Bracket for KSC-326K/256K
KVC-15	Rapid rate DC vehicular charger adapter for the KSC-32 (chargers not included; includes KSC-mobile bracket & cigarette lighter cable DC adapter)
KVC-23	Rapid rate DC vehicular charger for TK-5x10/5x20, NX-5x00/x00/x10/x20, TK-x180, TK-x170, & TK-x360 portables with Lithium Ion /Lithium Polymer/NiMH packs only

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**CARRYING ACCESSORIES**

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

**SPECIAL COLOR HOUSING**

KWD-YH-5000	Yellow Housing Kit for NX-5000 series Portables (Standard Key Model Only) Order <b>L-5024</b> for Factory Install. (Intrinsically Safe Option must be installed by Kenwood.)
KWD-OH-5000	Orange Housing Kit for NX-5000 series Portables (Standard Key Model Only) Order <b>L-5025</b> for Factory Install. (Intrinsically Safe Option must be installed by Kenwood.)

**MICROPHONES & AUDIO ACCESSORIES**

KMC-54WDM	MIL-SPEC, IP67 (Immersion) Speaker Mic <b>Compatible with ANR Feature</b> <b>Note:</b> only compatible with a NX-5000 series portable <b>[Intrinsically Safe Option]</b>
KMC-42WDM	MIL-SPEC, IP67 (Immersion) Noise-canceling Speaker Mic <b>[Intrinsically Safe Option]</b>
KMC-49	MIL-SPEC, Speaker Mic. with Antenna Connector <b>Note:</b> 5/16" Coax cable hex wrench included (antenna is not included). <b>[Intrinsically Safe Option]</b>
KEP-1	3.5mm earphone kit for KMC-41/42W/54W Speaker Mics <b>[Intrinsically Safe Option]</b>
KEP-2	2.5mm earphone kit for KMC-49 Speaker Mic <b>[Intrinsically Safe Option]</b>
KCT-51	Hirose 6-pin Adapter (adapts KVL/aftermarket audio acc. to portable connector) <b>[Intrinsically Safe Option]</b>
KHS-11BL	2-wire palm mic w/earphone, universal connector (Black) <b>[Intrinsically Safe Option]</b>
KHS-12BL	3-wire mini lapel mic w/earphone, universal connector (Black) <b>Note: NOT compatible with TDMA operations</b> <b>[Intrinsically Safe Option]</b>
KHS-14	Lt. Wt. Single muff headset w/boom mic & In-line PTT <b>Note: NOT compatible with TDMA operations</b> <b>[Intrinsically Safe Option]</b>
KHS-15-BH	Hvy-duty noise reduction behind-the-headset w/noise cancelling boom mic & PTT <b>Note: NOT compatible with TDMA operations</b> <b>[Intrinsically Safe Option]</b>
KHS-15-OH	Hvy-duty noise reduction over-the-headset w/noise cancelling boom mic & PTT <b>Note: NOT compatible with TDMA operations</b> <b>[Intrinsically Safe Option]</b>

**ENCRYPTION MODULES**

KWD-AE30K	AES FIPS140-2 & DES Encryption Module (Multi-Key) Order a Labor Code <b>L-5003</b> 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). <b>[Intrinsically Safe Option]- Must be Kenwood installed for I.S.</b>
KWD-AE31K	AES & DES Encryption Module (Multi-Key) Order a Labor Code <b>L-5004</b> if installation is required. <b>Note:</b> 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) <b>[Intrinsically Safe Option]- Must be Kenwood installed for I.S.</b>

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**ENCRYPTION MODULES CONT**

KPG-AE1K	AES/DES Encryption Software Key Loader for KWD-AE31K <b>Authentication by KPT-300LMC is required</b> <b>Note:</b> KPG-AE1 is a U.S. DOC/BIS Export Controlled Item (ECCN 5D002A).
KPG-DE1K	DES Encryption Software Key Loader for KWD-AE31K <b>Authentication by KPT-300LMC is required</b> <b>Note:</b> KPG-DE1 is a U.S. DOC/BIS Export Controlled Item (ECCN 5D992A.1).

**SERVICE RELATED ACCESSORIES**

KPG-36XM	Full Speed USB Programming interface cable
KPG-93	KVL-3000/3000 Plus/4000 Interface Cable for P25 Portables
KPG-93AUT	KVL-4000 Radio Authentication Cable [Available in 2016 1Q]
KWD-ASK-AK	Access Key for KPG-D1K P25 trunked programming <b>Notes:</b> Enables P25 Trunked system programming privileges in a KPG-D1K. <ul style="list-style-type: none"> <li>• For NX-5000 series only.</li> <li>• Must be activated by trunked system operator (SYSOP) with KWD-ASK-MK Master Key.</li> <li>• Must have KPG-D1K.</li> <li>• Configurable expiration period of KWD-ASK-AK set by KWD-ASK-MK is available for 3 years for built in battery. USB Key must be replaced since the expiration set up dose not work after 3 years.</li> </ul>
KWD-ASK-MK	Master Key for activating KWD-ASK-AK Access Keys <b>- Restricted Purchase Requirements -</b> <b>Notes:</b> <ul style="list-style-type: none"> <li>• For NX-5000 series only.</li> <li>• Sold to trunked system operator (SYSOP) or SYSOP authorized entities only</li> <li>• Must have KPG-D1K.</li> <li>• SYSOP must provide 3-digit HEX HSID to Kenwood with P25 Trunking System Keys Request Form.</li> <li>• Purchase KWD-ASK-AK Access Keys if needed.</li> </ul>

**INSTALLATION / TUNING CHARGES**

L-5000	Account Registration Key <b>Note:</b> specify the number of PC's used for Radio Feature License Activation.	NC	NC
L-5001	Factory Activation of Radio Feature Licenses (per Radio) <b>Note:</b> Must purchase Radio Feature Licenses separately. KPT-300LMC's History Menu will not display the Radio Features activated by Factory.		
L-5002	NX-5200/5300/5400 Programming (with basic TX/RX check)		
L-5003	Install KWD-AE30K in NX-5000 series Portable (Must purchase module separately)		
L-5004	Install KWD-AE31K in NX-5000 series Portable (Must purchase module separately)		
L-5005	KPG-D1K System Key File (SKF) <b>Note:</b> Enables P25 Trunked system programming privileges in a KPG-D1K. <b>- Restricted Purchase Requirements -</b> <ul style="list-style-type: none"> <li>• Trunked system operator (SYSOP) must provide 3-digit HEX HSID to Kenwood with P25 Trunking System Keys Request Form.</li> <li>• Must have KPG-D1K.</li> <li>• Kenwood ships an encrypted *.SKF file via E-Mail to the address provided on the P25 Trunking System Keys Request Form.</li> <li>• Non-SYSOP entities ordering L-5005 must provide verifiable written authorization from SYSOP to receive an *.SKF file.</li> <li>• 3-digit HEX HSID are securely encrypted &amp; embedded in the *.SKF file.</li> </ul>		
L-5024	Assemble Yellow Housing KWD-YH-5000 with NX-5000 series Portable		
L-5025	Assemble Orange Housing KWD-OH-5000 with NX-5000 series Portable		
L-5039	Configure NX-5200/5300/5400 for CSA US Intrinsically Safe <b>Must order KNB-LS5M I.S. battery</b>		

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-- 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](http://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.

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**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.