

KENWOOD

Land Mobile Radio Accessories Catalog April 2026



American Communication Systems

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TABLE OF CONTENTS:

PORTABLES

[NX-5200 / 5300](#)
[NX-5400](#)
[NX-3200 / 3300](#)
[NX-3400](#)
[NX-3220 / 3320](#)
[NX-3420](#)
[NX-1200NV / NX-1300NU](#)
[NX-1200NV / NX-1300NU \(K3/K6\)](#)
[NX-1200DV / NX-1300DU](#)
[NX-1200DV / NX-1300DU \(K3/K6\)](#)
[NX-1200AV / 1300AU](#)
[NX-1202AV / 1302AU](#)
[NX-3210R](#)
[PKT-300](#)

MOBILES

[NX-5700 / 5800 / 5900](#)
[NX-5700H / 5800H](#)
[NX-5600H](#)
[NX-5000 Mobile Acc.](#)
[NX-3720HG / 3820HG](#)
[NX-3920G / 3921G](#)
[NX-1700HNV / 1800HNU](#)
[NX-1700HDV / 1800HDU](#)
[NX-1700HAV / 1800HAU](#)





NX-5200/5300

Table of Contents

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:**

1. To meet IP grades and MIL, the universal connector cap or KENWOOD official accessory must be installed/connected.
2. 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

Approved by CSA-us International Inc. 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 hazardous locations.

Note: Environmental conditions are less than 32°F (0°C), KENWOOD carrying cases must be used.

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
- Multi Digital Protocol 1
- Emergency Call Features
- Built-in GPS Receiver / Antenna
- Built-in Bluetooth® 4.0 Module
- Built-in Motion Sensor
- Built-in 56-bit DES Encryption (4 keys programmable by KPG-D1(N)K)
- Active Noise Reduction (ANR)
- KPG-D1N Windows® FPU
- Flash Firmware Upgrading
- MIL-STD-810 C/D/E/F/G
- IP67/68 Immersion
- Color Housing Option
- Digital Encode/Decode Format

■ DIGITAL – P25 MODE

- P25 Conventional Option
- P25 Phase 1 Trunking Option
- P25 Phase 2 Trunking Option
- Conv/Trunking OTAR Option
- Conventional Voting Scan Option
- Packet Data Option for P25 OTAR, GPS & OTAP
- Text Data
- Radio Authentication
- Tone Paging
- ARC4 Encryption Option

1. Multi Digital Protocol can be used for two(2) of the three(3) Digital Protocols set by programming software. P25/DMR Digital Protocols are options.

OPTIONAL FEATURES

■ GENERAL FEATURES

- 4000 Channel (KWD-5000CH)
- Front Panel Programming (KWD-5001FP)
- microSD/microSDHC Memory Card Slot (KWD-5002SD)
- Built-in Bluetooth® Module for Data (KWD-5003BT)
- Remote Control Commands by Subscriber Units (KWD-5007RC)
- 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)
- Phase 1 Trunking Features (KWD-5100CV & 5101TR)
- Phase 2 Trunking Features (KWD-5100CV & 5101TR & 5102TR)
- Conventional OTAR (KWD-5103RK)
- Trunking OTAR (KWD-5103RK & 5106DT)
- Conventional Voting Scan (KWD-5105VT)
- Packet Data required for Trunked OTAR/GPS/OTAP (KWD-5106DT)
- P25 ARC4 Encryption (KWD-5107EE)
- Link Layer Authentication (KWD-5100CV & KWD-5101TR & KWD-AE3x Encryption Board Required)
- One active key per system, up to 32 systems

■ DIGITAL – DMR MODE

- DMR Tier 2 Conventional and Trunking 2.5 Features (KWD-5300CV)
- DMR Tier 3 Trunking Features (KWD-5300CV & KWD-5301TR)

■ DIGITAL – NXDN® MODE

- NXDN® Conventional / TYPE-C (Gen1/Gen2) Trunking
- AMBE+2™ VOCODER
- 6.25 & 12.5 kHz Channels
- Over-the-Air Alias
- Over-the-Air Programming
- Paging Call
- Emergency Call
- All Group Call
- Digital Two-Tone
- Status Messaging
- Remote Stun/Kill/Check
- Short & Long Data Messages
- GPS Location
- NXDN® Scrambler

■ DIGITAL – DMR MODE

- DMR Tier 2 Conventional Option
- DMR Tier 3 Trunking Option
- DMR Auto Slot Select (DASS)
- AMBE+2™ VOCODER
- 12.5 kHz Channels
- Over-the-Air Alias
- Over-the-Air Programming
- Call Interrupt (Direct & Repeater Mode)
- Paging Call
- Emergency Call
- All Group Call
- Late Entry
- Status Messaging
- Remote Control by Subscriber Units
- ARC4 Encryption Optional
- Site Roaming

■ 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

NEXEDGE®



NX-5200/5300

Table of Contents

VHF/UHF Digital & FM Analog Portable Radios

RADIO

Standard Key Models

NX-5200K2	VHF (136-174MHz), 6.0 Watts	NXDN Conventional / TYPE-C (Gen1/Gen2) Trunking
NX-5300K2	UHF (450-520MHz), 5.0 Watts	NXDN Conventional / TYPE-C (Gen1/Gen2) Trunking
NX-5300K5	UHF (380-470MHz), 5.0 Watts	NXDN Conventional / TYPE-C (Gen1/Gen2) Trunking

Full Key Models

NX-5200K3	VHF (136-174MHz), 6.0 Watts	NXDN Conventional / TYPE-C (Gen1/Gen2) Trunking
NX-5300K3	UHF (450-520MHz), 5.0 Watts	NXDN Conventional / TYPE-C (Gen1/Gen2) Trunking
NX-5300K6	UHF (380-470MHz), 5.0 Watts	NXDN Conventional / TYPE-C (Gen1/Gen2) Trunking

CSA US APPROVED MODELS

Must Order L-5039 & "KNB-LS5CU or KNB-LS7M" 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 (Gen1/Gen2) Trunking
NX-5200-ISCK3	VHF (136-174MHz), 6.0 Watts	NXDN Conventional / TYPE-C (Gen1/Gen2) Trunking
NX-5300-ISCK2	UHF (450-520MHz), 5.0 Watts	NXDN Conventional / TYPE-C (Gen1/Gen2) Trunking
NX-5300-ISCK3	UHF (450-520MHz), 5.0 Watts	NXDN Conventional / TYPE-C (Gen1/Gen2) Trunking
NX-5300-ISCK5	UHF (380-470MHz), 5.0 Watts	NXDN Conventional / TYPE-C (Gen1/Gen2) Trunking
NX-5300-ISCK6	UHF (380-470MHz), 5.0 Watts	NXDN Conventional / TYPE-C (Gen1/Gen2) Trunking

NEXEDGE®



NX-5200/5300

Table of Contents

VHF/UHF Digital & FM Analog Portable Radios

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 470-520 MHz
KRA-23M3	UHF low-profile helical antenna 403-430 MHz
KRA-41M	VHF stubby antenna 148-162 MHz
KRA-41M2	VHF stubby antenna 162-174 MHz
KRA-41M3	VHF stubby antenna 136-150 MHz
KRA-42M	UHF stubby antenna 440-490 MHz
KRA-42M2	UHF stubby antenna 470-520 MHz
KRA-42M3	UHF stubby antenna 403-430 MHz
KRA-25	High gain VHF helically loaded whip antenna 148-162 MHz
KRA-28	Broad-band VHF helically loaded whip antenna 140-170 MHz
KRA-29	Broad Band UHF Whip Antenna 380-430 MHz

BATTERIES AND CHARGERS

**All of batteries listed below except KBP-8M2 is compatible with IP67/68 when it is used with a radio.*

KNB-L1M	Li-ion 2000mAh (Compact Slim)
KNB-L2M	Li-ion 2600mAh (Standard)
KNB-L11M	Li-ion 3900mAh (High Capacity) Note: The KNB-L11 battery requires NX-5x00 firmware 5.12 or newer
KNB-L12M	Laminated Li-ion 3000mAh (High Capacity)
KNB-L13M	Laminated Li-ion 4000mAh (High Capacity)
KNB-LS5CU	CSA US Intrinsically Safe Battery Li-ion 2000mAh Note: Due to the I.S. circuitry on the KNB-LS5CU, 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, KSC-52BK, KSC-326K, KSC-326AK or KSC-526K. [Intrinsically Safe Option]
KNB-LS7M	CSA US Intrinsically Safe Battery Li-ion 3800mAh Note: Due to the I.S. circuitry on the KNB-LS7M, 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, KSC-52BK, KSC-326K, KSC-326AK or KSC-526K. [Intrinsically Safe Option]
KBP-8M2	AA Alkaline Refillable Battery Pack (12 AA: 9V). Cells not included. Note: The color of the case is International Orange.

Single Unit Desk Chargers

KSC-52BK	Rapid rate single unit charger for KNB-L1/KNB-L2/KNB-L3/KNB-LS5/KNB-LS7/KNB-33L/PB-45L/KNB-47L/KNB-48L/KNB-72LC/KNB-70LEX/KNB-41NC/KNB-50NC/KNB-54N
KSC-52AK	Rapid rate single unit charger for the KNB-L11/L12/L13 high capacity battery

6 Unit Chargers

KSC-526K	Rapid rate 6-unit charger CEC Compliant Note: Requires charging pocket KSC-52PBW and/or KSC-52PCW, and/or KSC-52PAW
KSC-52PBW	Charging pocket for KSC-526K and/or to convert the pocket style of a KSC-52 Single unit charger compatible with the KNB-L1, L2, L3, LS5 and LS7 batteries, and NX-205/305 and NX-210 series

NEXEDGE® **P25 DMR** **NX-5200/5300** **VHF/UHF Digital & FM Analog Portable Radios** Table of Contents

KSC-52PAW Charging pocket for KSC-526K and/or to convert the pocket style of a KSC-52 Single unit charger compatible with the KNB-L11/L12/L13 battery

KMB-526K Wall Mount Bracket for KSC-526K

Vehicle Chargers/Adapters

KVC-52 Rapid rate DC vehicular charger adapter for the KSC-52BK/52AK chargers (chargers not included; includes steel mounting base & locking bracket, and DC cable with a fused cigarette lighter plug)

KVC-23A 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
Note: Compatible with KNB-L11 battery

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 with KNB-L1/L2/L3/LS5CU (for both keypad models)

KLH-201K3 Nylon carrying case for NX-5000-series with KNB-L1/L2/L3/LS5CU (for both keypad models)

SPECIAL COLOR HOUSING

KWD-YH-5000 Yellow Housing Kit for NX-5000 series Portables (Standard Key Model K2/K5 Only)
 Order **L-5024** for Factory Install. (Eligible for warranty of IP67/68 immersion / Intrinsically Safe Option must be installed by Kenwood.)
Note: If you order only housing and perform Dealer Installation, IP67/68 Warranty Claim will not be eligible.

MICROPHONES & AUDIO ACCESSORIES

***IP grades for microphones and audio accessories are decided by each item.**

KMC-70M MIL-SPEC, IP54/55/67/68* Speaker Mic with **Active Noise Reduction**
Note: IP68 is available only when used with NX-5000 series portable
[Intrinsically Safe Option]

KMC-72W MIL-SPEC, IP54/55/67 Noise-cancelling Speaker Mic
[Intrinsically Safe Option]

KMC-49 MIL-SPEC, Speaker Mic. with Antenna Connector
Note: 5/16" Coax cable hex wrench included (antenna is not included).
[Intrinsically Safe Option]

KEP-1 3.5mm earphone kit for KMC-41/42W/54W/70M/72W Speaker Mics
[Intrinsically Safe Option]

KEP-2 2.5mm earphone kit for KMC-49 Speaker Mic
[Intrinsically Safe Option]

KCT-51 Hirose 6-pin Adapter (adapts KVL/aftermarket audio acc. to portable connector)
[Intrinsically Safe Option]

KHS-11BL 2-wire palm mic w/earphone, universal connector (Black)
[Intrinsically Safe Option]

KHS-12BL 3-wire mini lapel mic w/earphone, universal connector (Black)
Note: NOT compatible with TDMA operations
[Intrinsically Safe Option]

KHS-14C Lt. Wt. Single muff headset w/boom mic & In-line PTT
Note: Operating & Storage temperature is -4°F to 122°F (-20°C to 50°C)

KHS-15DC-BH Hvy-duty behind-the-headset w/boom mic & earcup-mounted PTT with NRR of 24dB **[Intrinsically Safe Option]**

KHS-15D-OH Hvy-duty noise reduction over-the-headset w/noise cancelling boom mic & PTT **[Intrinsically Safe Option]**

NEXEDGE®
P25 DMR
NX-5200/5300
VHF/UHF Digital & FM Analog Portable Radios
 Table of Contents

Sensear Bluetooth® Headsets Non-IS Models (SENS® Technology)

SM1PB003	Sensear Non-IS BT Headband Single hearing protection IP54 with NRR of 27dB
SM1PE003	Sensear Non-IS BT Behind-the-Neck Single hearing protection IP54 with NRR of 24dB
SM1PH003	Sensear Non-IS BT Helmet Mount Single hearing protection IP54 with NRR of 23dB

Sensear Bluetooth® Headsets IS Rated Models (SENS® Technology)

SM1PBIS02*	Sensear IS Rated BT Headband Single hearing protection IP54 with NRR of 27dB
SM1PEIS02*	Sensear IS Rated BT Behind-the-Neck Single hearing protection IP54 with NRR of 24dB
SM1PHIS02*	Sensear IS Rated BT Helmet Mount Single hearing protection IP54 with NRR of 23dB
SM1PBISDP02*	Sensear IS Rated BT Headband Dual hearing protection IP54 with NRR of 36dB
SM1PEISDP02*	Sensear IS Rated BT Behind-the-Neck Dual hearing protection IP54 with NRR of 36dB
SM1PHISDP02*	Sensear IS Rated BT Helmet Mount Dual hearing protection IP54 with NRR of 36dB

*SM1P-IS & SM1P-ISDP Series Headsets Intrinsic Safety:
 IS certification: TIA-4950-A, CSA C22.2 No. 157.92, & UL 913 5th Edition with a hazardous location rating of Class I, II, III, Division 1 & 2, Groups A - G, T4 -20°C to +40°C, T3C -20°C to +50°C

ENCRYPTION & OPTION MODULES

KWD-AE30K	AES FIPS140-2 Level 1 & DES Encryption Module (Multi-Key) Order a Labor Code L-5003 if installation is required. (Eligible for warranty of IP67/68 immersion / Intrinsically Safe Option must be installed by Kenwood. If you order only a Module and perform Dealer Installation, IP67/68 Warranty Claim will not be eligible.) 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). Note: Required for Link Layer Authentication [Intrinsically Safe Option]- Must be Kenwood installed for I.S.
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KWD-AE31K	AES & DES Encryption Module (Multi-Key) Order a Labor Code L-5004 if installation is required. (Eligible for warranty of IP67/68 immersion / Intrinsically Safe Option must be installed by Kenwood. If you order only a Module and perform Dealer Installation, IP67/68 Warranty Claim will not be eligible.) 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) Note: Required for Link Layer Authentication [Intrinsically Safe Option]- Must be Kenwood installed for I.S.
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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 [Intrinsically Safe Option]
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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).
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KPG-DE1K	DES Encryption Software Key Loader for KWD-AE31K Authentication by KPT-300LMC is required
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SERVICE RELATED ACCESSORIES

KPG-D1NK	License Key for KPG-D1NK Programming Software for NX-5000 Portable/Mobile (Windows® Vista/7/8/8.1/10) Note: Requires KPT-300LMC for authentication
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P25 Trunked Programming Capability:
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-D1NK supports up to 16 KWD-ASK-AK Access Keys (16 trunked networks).

KPG-36XM	Full Speed USB Programming interface cable Note: This cable with USB mode may used for SD Card Direct Access.
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KPG-93	Encryption Key Loader Interface Cable for Motorola KVL-3000/3000 Plus/4000
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KPG-93AUT	KVL-4000 Radio Authentication Cable Note: Only capable for P25 Radio Authentication. Not available for Encryption Key Loading.
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NX-5200/5300

Table of Contents

VHF/UHF Digital & FM Analog Portable Radios

OPTIONAL CABLE FOR FOREST/FIRE SERVICES FEATURE SET (FSFS) OPTION

KPG-CLN-14P Portable-to-Portable Cloning Cable (14P:14P), 1m

INSTALLATION / TUNING CHARGES

L-5001	<p>Factory Activation of Radio Feature Licenses (per Radio) Note: Must purchase Radio Feature Licenses separately. <u>KPT-300LMC's History Menu will not display the Radio Features activated by Factory.</u></p>
L-5002	<p>NX-5200/5300/5400 Programming (with basic TX/RX check) Must submit <u>NX-x000 Series Programming Order Form</u> upon placing order for any programming services.</p>
L-5003	<p>Install KWD-AE30K in NX-5000 series Portable (Must purchase module separately)</p>
L-5004	<p>Install KWD-AE31K in NX-5000 series Portable (Must purchase module separately)</p>
L-5005	<p>KPG-D1NK System Key File (SKF) Note: Enables P25 Trunked system programming privileges in a KPG-D1NK.</p>
L-5024	<p>Assemble Yellow Housing KWD-YH-5000 with NX-5000 series Portable</p>
L-5039	<p>Configure NX-5200/5300/5400 for CSA US Intrinsically Safe Must order <u>KNB-LS5CU</u> or <u>KNB-LS7M I.S. battery</u></p>
L-5051	<p>P25 CAP Compliance of Non-Encrypted Radio - Disable Built-in DES</p>
L-5077	<p>FSFS++ Forest Service Feature Set - Factory Installation Adds Tactical Zone improvements and Analog Conv & P25 Conv Zone Cloning Note: Must purchase <u>per Radio</u> <ul style="list-style-type: none"> • This feature set is provided by custom firmware based on V4.21.00 firmware. • Feature set is applicable for analog conventional / P25 conventional modes only. • Feature set does not support mobile multi-deck configuration. • Feature set will not work with any other firmware options or customized firmware. • Custom firmware is not eligible for warranty compensation. </p>
L-1849	<p>FSFS++ Forest Service Feature Set - Field Installation Adds Tactical Zone improvements and Analog Conv & P25 Conv Zone Cloning <ul style="list-style-type: none"> • This feature set is provided as custom firmware based on V4.21.00 firmware. • Feature set is applicable for analog conventional / P25 conventional modes only. • Feature set does not support Mobile multi-deck configuration. • Feature set will not work with any other firmware options or customized firmware. • Custom firmware is not eligible for warranty compensation. </p>



NX-5400

Table of Contents

700/800MHz Digital & FM Analog Portable Radio



<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:**

1. To meet IP grades and MIL, the universal connector cap or KENWOOD official accessory must be installed/connected.
2. 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.

Due to spurious signal (birdie), the following frequencies (and ±10kHz ranges) are not allowed:

- 864.000

Approved by CSA-us International Inc. 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 hazardous locations.

Note: Environmental conditions are less than 32°F (0°C), KENWOOD carrying cases must be used.

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
- Multi Digital Protocol ¹
- Emergency Call Features
- Built-in GPS Receiver / Antenna
- Built-in Bluetooth® 4.0 Module
- Built-in Motion Sensor
- Built-in 56-bit DES Encryption (4 keys programmable by KPG-D1(N)K)
- Active Noise Reduction (ANR)
- KPG-D1N Windows® FPU
- Flash Firmware Upgrading
- MIL-STD-810 C/D/E/F/G
- IP67/68 Immersion
- Color Housing Option
- Digital Encode/Decode Format

■ DIGITAL – P25 MODE

- P25 Conventional Option
- P25 Phase 1 Trunking Option
- P25 Phase 2 Trunking Option
- Conv/Trunking OTAR Option
- Conventional Voting Scan Option
- Packet Data Option for P25 OTAR, GPS & OTAP
- Text Data
- Radio Authentication
- Tone Paging
- ARC4 Encryption Option

OPTIONAL FEATURES

■ GENERAL FEATURES

- 4000 Channel (KWD-5000CH)
- Front Panel Programming (KWD-5001FP)
- microSD/microSDHC Memory Card Slot (KWD-5002SD)
- Built-in Bluetooth® Module for Data (KWD-5003BT)
- Remote Control Commands by Subscriber Units (KWD-5007RC)
- 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)
- Phase 1 Trunking Features (KWD-5100CV & 5101TR)
- Phase 2 Trunking Features (KWD-5100CV & 5101TR & 5102TR)
- Conventional OTAR (KWD-5103RK)
- Trunking OTAR (KWD-5103RK & 5106DT)
- Conventional Voting Scan (KWD-5105VT)
- Packet Data required for Trunked OTAR/GPS/OTAP (KWD-5106DT)
- P25 ARC4 Encryption (KWD-5107EE)
- Link Layer Authentication (KWD-5100CV & KWD-5101TR & KWD-AE3x Encryption Board Required)
- One active key per system, up to 32 systems

■ DIGITAL – DMR MODE

- DMR Tier 2 Conventional Features (KWD-5300CV)
- DMR Tier 3 Trunking Features (KWD-5300CV & KWD-5301TR)

■ DIGITAL – NXDN® MODE

- NXDN® Conventional
- NXDN® TYPE-C (Gen1/Gen2) Trunking (only in 800MHz)
- AMBE+2™ VOCODER
- 6.25 & 12.5 kHz Channels
- Over-the-Air Alias
- Over-the-Air Programming
- Paging Call
- Emergency Call
- All Group Call
- Digital Two-Tone
- Status Messaging
- Remote Stun/Kill/Check
- Short & Long Data Messages
- GPS Location
- NXDN® Scrambler

■ DIGITAL – DMR MODE

- DMR Tier 2 Conventional Option
- DMR Tier 3 Trunking Option
- DMR Auto Slot Select (DASS)
- AMBE+2™ VOCODER
- 12.5 kHz Channels
- Over-the-Air Alias
- Over-the-Air Programming
- Call Interrupt (Direct & Repeater Mode)
- Paging Call
- Emergency Call
- All Group Call
- Late Entry
- Status Messaging
- Remote Control by Subscriber Units
- ARC4 Encryption Optional
- Site Roaming

■ 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
- Two-Tone (Conventional Zones Only)

1. Multi Digital Protocol can be used for two(2) of the three(3) Digital Protocols set by programming software. P25/DMR Digital Protocols are options.

	<h1 style="margin: 0;">NX-5400</h1> <p style="margin: 0;">700/800MHz Digital & FM Analog Portable Radio</p>	Table of Contents
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RADIO

NX-5400K2	700 / 800 MHz, 3.0 Watts NXDN Conventional / TYPE-C (Gen1/Gen2) Trunking Standard Key Model
NX-5400K3	700 / 800 MHz, 3.0 Watts NXDN Conventional / TYPE-C (Gen1/Gen2) Trunking Full Key Model

CSA US APPROVED MODELS

Must Order L-5039 & "KNB-LS5CU or KNB-LS7M" Intrinsically Safe Battery per radio
**Note: microSD card is not allowed to use as Intrinsically Safe Option.*

NX-5400-ISCK2	700 / 800 MHz, 3.0 Watts NXDN Conventional / TYPE-C (Gen1/Gen2) Trunking Standard Key Model
NX-5400-ISCK3	700 / 800 MHz, 3.0 Watts NXDN Conventional / TYPE-C (Gen1/Gen2) Trunking Full Key Model

ANTENNAS

KRA-32K	700/800 MHz Whip Antenna
KRA-36	700/800 MHz Stubby Antenna



NX-5400

Table of Contents

700/800MHz Digital & FM Analog Portable Radio

BATTERIES AND CHARGERS

***All of batteries listed below except KBP-8M2 is compatible with IP67/68 when it is used with a radio.**

KNB-L1M	Li-ion 2000mAh (Compact Slim)
KNB-L2M	Li-ion 2600mAh (Standard)
KNB-L11M	Li-ion 3900mAh (High Capacity) Note: The KNB-L11 battery requires NX-5x00 firmware 5.12 or newer
KNB-L12M	Laminated Li-ion 3000mAh (High Capacity)
KNB-L13M	Laminated Li-ion 4000mAh (High Capacity)
KNB-LS5CU	CSA US Intrinsically Safe Battery Li-ion 2000mAh Note: Due to the I.S. circuitry on the KNB-LS5CU, 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, KSC-52BK, KSC-326K, KSC-326AK or KSC-526K. [Intrinsically Safe Option]
KNB-LS7M	CSA US Intrinsically Safe Battery Li-ion 3800mAh Note: Due to the I.S. circuitry on the KNB-LS7M, 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, KSC-52BK, KSC-326K, KSC-326AK or KSC-526K. [Intrinsically Safe Option]
KBP-8M2	AA Alkaline Refillable Battery Pack (12 AA: 9V). Cells not included. Note: The color of the case is International Orange.

Single Unit Desk Chargers

KSC-52BK	Rapid rate single unit charger for KNB-L1/KNB-L2/KNB-L3/KNB-LS5/KNB-LS7/KNB-33L/PB-45L/KNB-47L/KNB-48L/KNB-72LC/KNB-70LEX/KNB-41NC/KNB-50NC/KNB-54N
KSC-52AK	Rapid rate single unit charger for the KNB-L11/L12/L13 high capacity battery

6 Unit Chargers

KSC-526K	Rapid rate 6-unit charger CEC Compliant Note: Requires charging pocket KSC-52PBW and/or KSC-52PCW, and/or KSC-52PAW
KSC-52PBW	Charging pocket for KSC-526K and/or to convert the pocket style of a KSC-52 Single unit charger compatible with the KNB-L1, L2, L3, LS5 and LS7 batteries, and NX-205/305 and NX-210 series
KSC-52PAW	Charging pocket for KSC-526K and/or to convert the pocket style of a KSC-52 Single unit charger compatible with the KNB-L11/L12/L13 battery
KMB-526K	Wall Mount Bracket for KSC-526K

Vehicle Chargers/Adapters

KVC-52	Rapid rate DC vehicular charger adapter for the KSC-52BK/52AK chargers (chargers not included; includes steel mounting base & locking bracket, and DC cable with a fused cigarette lighter plug)
KVC-23A	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. Note: Compatible with KNB-L11 battery

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 with KNB-L1/L2/L3/LS5CU (for both keypad models)
KLH-201K3	Nylon carrying case for NX-5000-series with KNB-L1/L2/L3/LS5CU (for both keypad models)

	<h1 style="margin: 0;">NX-5400</h1> <h2 style="margin: 0;">700/800MHz Digital & FM Analog Portable Radio</h2>	Table of Contents
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SPECIAL COLOR HOUSING

KWD-YH-5000 Yellow Housing Kit for NX-5000 series Portables (Standard Key Model K2/K5 Only)
 Order **L-5024** for Factory Install. (Eligible for warranty of IP67/68 immersion / Intrinsically Safe Option must be installed by Kenwood.)
Note: If you order only housing and perform Dealer Installation, IP67/68 Warranty Claim will not be eligible.

MICROPHONES & AUDIO ACCESSORIES

**IP grades for microphones and audio accessories are decided by each item.*

KMC-70M	MIL-SPEC, IP54/55/67/68* Speaker Mic with Active Noise Reduction Note: IP68 is available only when used with NX-5000 series portable [Intrinsically Safe Option]
KMC-72W	MIL-SPEC, IP54/55/67 Noise-cancelling Speaker Mic [Intrinsically Safe Option]
KMC-49	MIL-SPEC, Speaker Mic. with Antenna Connector Note: 5/16" Coax cable hex wrench included (antenna is not included). [Intrinsically Safe Option]
KEP-1	3.5mm earphone kit for KMC-41/42W/54W/70M/72W Speaker Mics [Intrinsically Safe Option]
KEP-2	2.5mm earphone kit for KMC-49 Speaker Mic [Intrinsically Safe Option]
KCT-51	Hirose 6-pin Adapter (adapts KVL/aftermarket audio acc. to portable connector) [Intrinsically Safe Option]
KHS-11BL	2-wire palm mic w/earphone, universal connector (Black) [Intrinsically Safe Option]
KHS-12BL	3-wire mini lapel mic w/earphone, universal connector (Black) Note: NOT compatible with TDMA operations [Intrinsically Safe Option]
KHS-14C	Lt. Wt. Single muff headset w/boom mic & In-line PTT Note: Operating & Storage temperature is -4°F to 122°F (-20°C to 50°C)
KHS-15DC-BH	Hvy-duty behind-the-headset w/boom mic & earcup-mounted PTT with NRR of 24dB [Intrinsically Safe Option]
KHS-15D-OH	Hvy-duty noise reduction over-the-headset w/noise cancelling boom mic & PTT [Intrinsically Safe Option]

Sensear Bluetooth® Headsets Non-IS Models (SENS® Technology)

SM1PB003	Sensear Non-IS BT Headband Single hearing protection IP54 with NRR of 27dB
SM1PE003	Sensear Non-IS BT Behind-the-Neck Single hearing protection IP54 with NRR of 24dB
SM1PH003	Sensear Non-IS BT Helmet Mount Single hearing protection IP54 with NRR of 23dB

Sensear Bluetooth® Headsets IS Rated Models (SENS® Technology)

SM1PBIS02*	Sensear IS Rated BT Headband Single hearing protection IP54 with NRR of 27dB
SM1PEIS02*	Sensear IS Rated BT Behind-the-Neck Single hearing protection IP54 with NRR of 24dB
SM1PHIS02*	Sensear IS Rated BT Helmet Mount Single hearing protection IP54 with NRR of 23dB
SM1PBISDP02*	Sensear IS Rated BT Headband Dual hearing protection IP54 with NRR of 36dB
SM1PEISDP02*	Sensear IS Rated BT Behind-the-Neck Dual hearing protection IP54 with NRR of 36dB
SM1PHISDP02*	Sensear IS Rated BT Helmet Mount Dual hearing protection IP54 with NRR of 36dB

*SM1P-IS & SM1P-ISDP Series Headsets Intrinsic Safety:
 IS certification: TIA-4950-A, CSA C22.2 No. 157.92, & UL 913 5th Edition with a hazardous location rating of Class I, II, III, Division 1 & 2, Groups A - G, T4 -20°C to +40°C, T3C -20°C to +50°C

ENCRYPTION & OPTION MODULES

KWD-AE30K AES FIPS140-2 Level 1 & DES Encryption Module (Multi-Key)
 Order a Labor Code **L-5003** if installation is required. (Eligible for warranty of IP67/68 immersion / Intrinsically Safe Option must be installed by Kenwood. If you order only a Module and perform Dealer Installation, IP67/68 Warranty Claim will not be eligible.)
 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).
Note: Required for Link Layer Authentication
[Intrinsically Safe Option]- Must be Kenwood installed for I.S.

	<h1 style="margin: 0;">NX-5400</h1> <h2 style="margin: 0;">700/800MHz Digital & FM Analog Portable Radio</h2>	Table of Contents
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KWD-AE31K	<p>AES & DES Encryption Module (Multi-Key)</p> <p>Order a Labor Code L-5004 if installation is required. (Eligible for warranty of IP67/68 immersion / Intrinsically Safe Option must be installed by Kenwood. If you order only a Module and perform Dealer Installation, IP67/68 Warranty Claim will not be eligible.)</p> <p>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)</p> <p>Note: Required for Link Layer Authentication</p> <p>[Intrinsically Safe Option]- Must be Kenwood installed for I.S.</p>
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KCT-48VU	<p>External Vibration Unit</p> <p>Note: Audio accessories cannot be used when this option installed.</p> <p>KCT-48VU does not support the P25 digital mode calling or paging features [Intrinsically Safe Option]</p>
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KPG-AE1K	<p>AES/DES Encryption Software Key Loader for KWD-AE31K</p> <p>Authentication by KPT-300LMC is required</p> <p>Note: KPG-AE1 is a U.S. DOC/BIS Export Controlled Item (ECCN 5D002A)</p>
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KPG-DE1K	<p>DES Encryption Software Key Loader for KWD-AE31K</p> <p>Authentication by KPT-300LMC is required</p>
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SERVICE RELATED ACCESSORIES

KPG-D1NK	<p>License Key for KPG-D1NK</p> <p>Programming Software for NX-5000 Portable/Mobile (Windows® Vista/7/8/8.1/10)</p> <p>Note: Requires KPT-300LMC for authentication</p>
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- P25 Trunked Programming Capability:**
- 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-D1NK supports up to 16 KWD-ASK-AK Access Keys (16 trunked networks).

KPG-36XM	<p>Full Speed USB Programming interface cable</p> <p>Note: This cable with USB mode may be used for SD Card Direct Access.</p>
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KPG-93	<p>Encryption Key Loader Interface Cable for Motorola KVL-3000/3000 Plus/4000</p>
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KPG-93AUT	<p>KVL-4000 Radio Authentication Cable</p> <p>Note: Only capable for P25 Radio Authentication. Not available for Encryption Key Loading.</p>
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KWD-ASK-AK	<p>Access Key for KPG-D1NK P25 trunked programming</p> <p>Notes: Enables P25 Trunked system programming privileges in a KPG-D1NK.</p> <ul style="list-style-type: none"> • For NX-5000 series only • Must be activated by trunked system operator (SYSOP) with KWD-ASK-MK Master Key • Must have KPG-D1NK • 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.
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KWD-ASK-MK	<p>Master Key for activating KWD-ASK-AK Access Keys</p> <p>- Restricted Purchase Requirements -</p> <p>Notes:</p> <ul style="list-style-type: none"> • For NX-5000 series only. • Sold to trunked system operator (SYSOP) or SYSOP authorized entities only • Must have KPG-D1NK • SYSOP must provide 3-digit HEX HSID to Kenwood with P25 Trunking System Keys Request Form placed on Kenwood Tools. • Purchase KWD-ASK-AK Access Keys if needed.
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OPTIONAL CABLE FOR FOREST/FIRE SERVICES FEATURE SET (FSFS) OPTION

KPG-CLN-14P	<p>Portable-to-Portable Cloning Cable (14P:14P), 1m</p>
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NX-5400

Table of Contents

700/800MHz Digital & FM Analog Portable Radio

INSTALLATION / TUNING CHARGES

L-5001	<p>Factory Activation of Radio Feature Licenses (per Radio) Note: Must purchase Radio Feature Licenses separately. KPT-300LMC's History Menu will not display the Radio Features activated by Factory.</p>
L-5002	NX-5200/5300/5400 Programming (with basic TX/RX check)
L-5003	<p>Install KWD-AE30K in NX-5000 series Portable (Must purchase module separately)</p>
L-5004	<p>Install KWD-AE31K in NX-5000 series Portable (Must purchase module separately)</p>
L-5005	<p>KPG-D1NK System Key File (SKF) Note: Enables P25 Trunked system programming privileges in a KPG-D1NK.</p>
L-5024	Assemble Yellow Housing KWD-YH-5000 with NX-5000 series Portable
L-5039	<p>Configure NX-5200/5300/5400 for CSA US Intrinsically Safe Must order KNB-LS5CU or KNB-LS7M I.S. battery</p>
L-5051	P25 CAP Compliance of Non-Encrypted Radio - Disable Built-in DES
L-5077	<p>FSFS++ Forest Service Feature Set - Factory Installation Adds Tactical Zone improvements and Analog Conv & P25 Conv Zone Cloning Note: Must purchase <u>per Radio</u></p> <ul style="list-style-type: none"> • This feature set is provided by custom firmware based on V4.21.00 firmware. • Feature set is applicable for analog conventional / P25 conventional modes only. • Feature set does not support mobile multi-deck configuration. • Feature set will not work with any other firmware options or customized firmware. • Custom firmware is not eligible for warranty compensation.
L-1849	<p>FSFS++ Forest Service Feature Set - Field Installation Adds Tactical Zone improvements and Analog Conv & P25 Conv Zone Cloning</p> <ul style="list-style-type: none"> • This feature set is provided as custom firmware based on V4.21.00 firmware. • Feature set is applicable for analog conventional / P25 conventional modes only. • Feature set does not support Mobile multi-deck configuration. • Feature set will not work with any other firmware options or customized firmware. • Custom firmware is not eligible for warranty compensation.



NX-3200/3300

Table of Contents

VHF/UHF Digital & FM Analog Portable Radios

STANDARD



Basic Standard Key Full Key

All NX-3000 series portables include:

- Belt Clip (KBH-11)
- Accessory Cover
- Channel Stopper
- User Guide
- Premium Warranty: 3 Years*

All Accessories / options: 1 Year

Purchase Battery, Charger, Antenna separately

***Note:**

1. To meet IP grades and MIL, the universal connector cap or KENWOOD official accessory must be installed/connected.
2. To maintain immersion specs (IP67), all warranty service must be done by National Kenwood Authorized Service Centers. IP67 Certification is valid under the 3 year premium warranty. No re-certification is available.

Because of spurious signal (birdie), the following frequencies (and ±7.5kHz ranges) are not allowed:

- | | | |
|------------|------------|------------|
| • 139.2000 | • 403.2000 | • 460.8000 |
| • 144.0000 | • 408.0000 | • 465.6000 |
| • 148.8000 | • 412.8000 | • 470.4000 |
| • 153.6000 | • 417.6000 | • 475.2000 |
| • 158.4000 | • 422.4000 | • 480.0000 |
| • 160.0000 | • 427.2000 | • 484.8000 |
| • 163.2000 | • 432.0000 | • 489.6000 |
| • 168.0000 | • 436.8000 | • 494.4000 |
| • 172.8000 | • 441.6000 | • 499.2000 |
| | • 446.4000 | • 504.0000 |
| | • 451.2000 | • 508.8000 |
| | • 456.0000 | • 513.6000 |
| | | • 518.4000 |

GENERAL FEATURES

- 5 W (136-174 MHz) Models
- 5 W (400-520 MHz) Models
- 512 CH-GID / 128 Zones
- 64 CH-GID / 4 Zones (For Basic Models)
- Basic Models (w/o LCD and keypad)
- Standard Keypad Models (w/ LCD and D-pad/4key)
- Full Keypad Models (w/ LCD and D-pad/12 key)
- 4-Line Basic Frame (2-Line Main/Sub-LCD, icon & key guide)
- 5-Line Text Message Frame (3 Lines of Text, icon & key guide)
- Multi-Language Display
- Date & 12/24 Hour Time Clock
- 7-color Light Bar Indicator
- Transmit/Busy/Call Alert/Warn LED
- Remote Stun/Kill/Check
- On/Off Volume Knob
- 16-Position Mechanical Selector
- 4-way Directional-pad (For Standard/Full Keypad)
- Emergency Key
- 2 Side PF Keys
- 1W Speaker Audio
- Dual Digital Protocol¹
- Emergency Call Features
- Built-in GPS Receiver / Antenna
- Built-in Bluetooth® 4.0 Module
- Built-in Motion Sensor
- Active Noise Reduction (ANR)
- KPG-D3N Windows® FPU
- Flash Firmware Upgrading
- Optional Software-based DES and AES . Encryptions (Digital Only)
- MIL-STD-810 C/D/E/F/G
- IP54/55² Water & Dust Intrusion
- IP67² Immersion
- Digital Encode/Decode Format
- Color Housing Option

*1. Designed to operate digital, DMR OR NXDN, along with analog FM; a single FM digital protocol is selected with programming software.
2. Must equip **Accessory Cover** included with a Radio. Speaker Microphone does not cover IPs.*

DIGITAL – NXDN® MODE

- NXDN® Conventional
- NXDN® TYPE-C (Gen1/Gen2) Trunking Option
- AMBE+2™ VOCODER
- 6.25 & 12.5 kHz Channels
- Over-the-Air Alias
- Over-the-Air Programming
- Paging Call
- Emergency Call
- All Group Call
- Digital Two-Tone
- Status Messaging
- Remote Stun/Kill/Check
- Short & Long Data Messages
- GPS Location
- NXDN® Scrambler

DIGITAL – DMR MODE

- DMR Tier 2 Conventional
- DMR Tier 3 Trunking Option
- DMR Auto Slot Select (DASS)
- AMBE+2™ VOCODER
- 12.5 kHz Channels
- Over-the-Air Alias
- Over-the-Air Programming
- Site Roaming
- Call Interrupt (Direct & Repeater Mode)
- Paging Call
- Emergency Call
- All Group Call
- Late Entry
- Status Messaging
- Remote Control by Subscriber Units
- ARC4 Encryption Option

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 FEATURES

- 1000 Channel (**KWD-3000CH**)
- Front Panel Programming (**KWD-3001FP**)
- Built-in Bluetooth® Module for Data (**KWD-3002BT**)
- Digital NXDN Trunking and Trunking 2.5 (**KWD-3501TR**)
- DMR Tier 2 Conventional (**Factory Installed**)
- DMR Tier 3 Trunking and Trunking 2.5 (**KWD-3302TR**)
- DMR ARC4 Enhanced Encryption (**KWD-3502EE**)
- AES/DES Encryption (**KWD-3503AE**)
- Remote Control Command by Subscriber Units (**KWD-3504RC**)

Approved by CSA-us 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 hazardous locations.

RADIO

NX-3200K	VHF (136-174MHz), 5.0 Watts, 64 CH, Basic Model
NX-3200K2	VHF (136-174MHz), 5.0 Watts, 512 CH, Standard Key Model
NX-3200K3	VHF (136-174MHz), 5.0 Watts, 512 CH, Full Key Model
NX-3300K	UHF (400-520MHz), 5.0 Watts, 64 CH, Basic Model
NX-3300K2	UHF (400-520MHz), 5.0 Watts, 512 CH, Standard Key Model
NX-3300K3	UHF (400-520MHz), 5.0 Watts, 512 CH, Full Key Model



NX-3200/3300

Table of Contents

VHF/UHF Digital & FM Analog Portable Radios

Li-ion VALUE PACKAGES (Preferred for Trunked Mode Usage)

NX-3200K2-XLKVP VHF Extra-Cap Li-Ion Value Pack : NX-3200K2+KNB-78L(2860mAh)+KSC-25LSK+KRA-26M

NX-3300K2-XLKVP UHF Extra-Cap Li-Ion Value Pack : NX-3300K2+KNB-78L(2860mAh)+KSC-25LSK+KRA-27M

Li-ion VALUE PACKAGES (Preferred for Conventional Mode Usage)

NX-3200K2LAKVP VHF Hi-Cap Li-Ion Value Pack : NX-3200K2+KNB-57LAM(2000mAh)+KSC-25LSK+KRA-26M

NX-3300K2LAKVP UHF Hi-Cap Li-Ion Value Pack : NX-3300K2+KNB-57LAM(2000mAh)+KSC-25LSK+KRA-27M

NX-3200K2SLAKVP VHF Li-Ion Value Pack : NX-3200K2+KNB-55LAM(1480mAh)+KSC-25LSK+KRA-26M

NX-3300K2SLAKVP UHF Li-Ion Value Pack : NX-3300K2+KNB-55LAM(1480mAh)+KSC-25LSK+KRA-27M

CSA US APPROVED MODELS

Must Order L-5062 & KNB-79LCM Intrinsically Safe Battery per radio

NX-3200-ISCK VHF (136-174MHz), 5.0 Watts, 64 CH, Basic Model

NX-3200-ISCK2 VHF (136-174MHz), 5.0 Watts, 512 CH, Standard Key Model

NX-3200-ISCK3 VHF (136-174MHz), 5.0 Watts, 512 CH, Full Key Model

NX-3300-ISCK UHF (400-520MHz), 5.0 Watts, 64 CH, Basic Model

NX-3300-ISCK2 UHF (400-520MHz), 5.0 Watts, 512 CH, Standard Key Model

NX-3300-ISCK3 UHF (400-520MHz), 5.0 Watts, 512 CH, Full Key Model

Note: KNB-68LC is NOT compatible for NX-3000 Intrinsically Safe usage.



NX-3200/3300

Table of Contents

VHF/UHF Digital & FM Analog Portable Radios

ANTENNAS

KRA-22M	VHF Low-profile helical antenna 148-162 MHz
KRA-22M2	VHF Low-profile helical antenna 162-174 MHz

ANTENNAS CONT

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 470-520 MHz
KRA-23M3	UHF Low-profile helical antenna 403-430 MHz
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-41M	VHF stubby antenna 148-162 MHz
KRA-41M2	VHF stubby antenna 162-174 MHz
KRA-41M3	VHF stubby antenna 136-150 MHz
KRA-42M	UHF stubby antenna 440-490 MHz
KRA-42M2	UHF stubby antenna 470-520 MHz
KRA-42M3	UHF stubby antenna 403-430 MHz
KRA-25	High gain VHF helically loaded whip antenna 148-162 MHz
KRA-28	Broad-band VHF helically loaded whip antenna 140-170 MHz

BATTERIES AND CHARGERS

KNB-78LM	2860 mAh, Li-ion battery, IP67, battery only, best for trunked mode operation
KNB-57LAM	2000 mAh, Li-ion battery, IP67, battery only, best for conventional mode operation
KNB-55LAM	1480 mAh, Li-ion battery, IP67, battery only
KNB-56N	1400 mAh, Ni-MH battery, IP67, battery only
KNB-79LCM	CSA US Intrinsically Safe Battery Li-ion 2860mAh, IP67, battery only [Intrinsically Safe Option]
KBP-5	AA Alkaline Refillable Battery Pack (6 AA; 9V) cells not included

Single Unit Desk Chargers

KSC-25LSK	100~240 volt rapid rate single unit charger for KNB-40LC(V)/55L/57L/68LC/78LM/79LCM Li-ion Battery
KSC-25SK	110 volt Rapid rate single unit charger for KNB-26N/40LC(V)/55L/56N/57L/68LC/78LM/79LCM

6 Unit Chargers

KMB-16	Six Unit Charger Adapter for the KSC-16/20/24/25/25L chargers (chargers not included)
KMB-23	Six Unit Charger Adapter for the KSC-16/20/24/25/25L/32 chargers (chargers not included)
KSC-526K	Rapid rate 6-unit charger CEC Compliant Note: Requires charging pocket KSC-52PBW and/or KSC-52PCW, and/or KSC-52PAW
KSC-52PCW	Charging pocket for KSC-526K compatible with NX-3000 series
KMB-526K	Wall Mount Bracket for KSC-526K

Vehicle Chargers/Adapters

KVC-4	Vehicular charger adapter for the KSC-16/18/20/24/25SK chargers (chargers not included) *KSC-25LSK is not compatible with KVC-4.
KVC-23A	Rapid rate DC vehicular charger for TK-5x10/5x20, NX-5x00/NX-3x00/x00/x10/x20, TK-x180, TK-x170, & TK-x360 portables with Lithium Ion /Lithium Polymer/NiMH packs only. Note: Compatible with KNB-L11 battery



NX-3200/3300

Table of Contents

VHF/UHF Digital & FM Analog Portable Radios

CARRYING ACCESSORIES

KBH-11	Spring action belt clip (2.5")
KBH-8DS	Leather swivel belt loop with portable D-Ring attachment
KLH-206K	Heavy-Duty Leather Case w/Swivel Belt Loop for Basic Model
KLH-206K2	Heavy-Duty Leather Case w/Swivel Belt Loop for Standard Keypad Model
KLH-206K3	Heavy-Duty Leather Case w/Swivel Belt Loop for Full Keypad Model
KLH-207K	Nylon carrying case for Basic Model
KLH-207K2	Nylon carrying case for Standard Keypad Model
KLH-207K3	Nylon carrying case for Full Keypad Model

SPECIAL COLOR HOUSING

KWD-YH-3000U	High Visibility Green Housing Kit for NX-3x00 series Standard Key Portables Must order L-5068 for Factory Install. Eligible for warranty of IP67 immersion only when factory installed with L-5068. Note: If you order only housing and perform Dealer Installation, IP67 Warranty Claim will not be eligible. Note: Coloring of housing changed to High Visibility Green after Nov 2021 production. Original yellow is no longer available.
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MICROPHONES & AUDIO ACCESSORIES

***IP grades for microphones and audio accessories are decided by each item.**

KMC-40	MIL-SPEC, Speaker Mic. with Antenna Connector Note: 5/16" Coax cable hex wrench included (antenna is not included). [Intrinsically Safe Option]
KMC-70M	MIL-SPEC, IP54/55/67/68* Speaker Mic with Active Noise Reduction Note: IP68 is available only when used with NX-5000 series portable [Intrinsically Safe Option]
KMC-72W	MIL-SPEC, IP54/55/67 Noise-cancelling Speaker Mic [Intrinsically Safe Option]
KEP-1	3.5mm earphone kit for KMC-41/42W/54W/70M/72W Speaker Mics [Intrinsically Safe Option]
KHS-11BL	2-wire palm mic w/earphone, universal connector (Black) [Intrinsically Safe Option]
KHS-12BL	3-wire mini lapel mic w/earphone, universal connector (Black) Note: Not compatible with TDMA operations [Intrinsically Safe Option]
KHS-14C	Lt. Wt. Single muff headset w/boom mic & In-line PTT Note: Operating & Storage temperature is -4°F to 122°F (-20°C to 50°C)
KHS-15DC-BH	Hvy-duty behind-the-headset w/boom mic & earcup-mounted PTT with NRR of 24dB [Intrinsically Safe Option]
KHS-15D-OH	Hvy-duty noise reduction over-the-headset w/noise cancelling boom mic & PTT [Intrinsically Safe Option]

Sensear Bluetooth® Headsets Non-IS Models (SENS® Technology)

SM1PB003	Sensear Non-IS BT Headband Single hearing protection IP54 with NRR of 27dB
SM1PE003	Sensear Non-IS BT Behind-the-Neck Single hearing protection IP54 with NRR of 24dB
SM1PH003	Sensear Non-IS BT Helmet Mount Single hearing protection IP54 with NRR of 23dB

Sensear Bluetooth® Headsets IS Rated Models (SENS® Technology)

SM1PBIS02*	Sensear IS Rated BT Headband Single hearing protection IP54 with NRR of 27dB
SM1PEIS02*	Sensear IS Rated BT Behind-the-Neck Single hearing protection IP54 with NRR of 24dB
SM1PHIS02*	Sensear IS Rated BT Helmet Mount Single hearing protection IP54 with NRR of 23dB
SM1PBISDP02*	Sensear IS Rated BT Headband Dual hearing protection IP54 with NRR of 36dB
SM1PEISDP02*	Sensear IS Rated BT Behind-the-Neck Dual hearing protection IP54 with NRR of 36dB
SM1PHISDP02*	Sensear IS Rated BT Helmet Mount Dual hearing protection IP54 with NRR of 36dB

*SM1P-IS & SM1P-ISDP Series Headsets Intrinsic Safety:

IS certification: TIA-4950-A, CSA C22.2 No. 157.92, & UL 913 5th Edition with a hazardous location rating of Class I, II, III, Division 1 & 2, Groups A - G, T4 -20°C to +40°C, T3C -20°C to +50°C

OPTION MODULES

KCT-48VU	External Vibration Unit Note: Audio accessories cannot be used when this option installed.
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NX-3200/3300

Table of Contents

VHF/UHF Digital & FM Analog Portable Radios

SERVICE RELATED ACCESSORIES

KPG-D3NK	License Key for KPG-D3NK Programming Software for NX-3000 Portable/Mobile Note: Requires KPT-300LMC for authentication
KPG-AE1K	License Key for AES/DES Encryption Software Key Loader for KWD-3503AE Note: - Requires KPT-300LMC for authentication - KPG-AE1 is a U.S. DOC/BIS Export Controlled Item (ECCN 5D002A).
KPG-DE1K	License Key for DES Encryption Software Key Loader for KWD-3505DE Note: - Requires KPT-300LMC for authentication
KPG-36XM	Full Speed USB Programming interface cable

INSTALLATION / TUNING CHARGES

L-836	Assemble KMB-16 with six KSC-25/25L
L-961	Assemble KMB-23 with six KSC-24/25/25L/32 (Rapid Rate, 120 Volt versions only)
L-5001	Factory Activation of Radio Feature Licenses (per Radio) Note: Must purchase Radio Feature Licenses separately. <u>KPT-300LMC's History Menu will not display the Radio Features activated by Factory.</u>
L-5052	NX-3000 Series Portables Programming (with basic TX/RX check) Must submit NX-x000 Series Programming Order Form upon placing order for any programming services.
L-5054	Installation AES/DES for NX-3000 Portable/Mobile
L-5062	Configure NX-3000 series for CSA US Intrinsicly Safe Note: NX-3000 series I.S. radios must be used with matching I.S. battery KNB-79LCM.
L-5068	Assemble Color Housing KWD-YH-3000U/P with NX-3000 series Portable



NX-3400

Table of Contents

800/900MHz Digital & FM Analog Portable Radio



All NX-3000 series portables include:

- Belt Clip (KBH-11)
- Antenna (KRA-38K)
- Accessory Cover
- Channel Stopper
- User Guide
- Premium Warranty: 3 Years*

All Accessories / options: 1 Year

Purchase Battery and Charger separately

***Note:**

1. To meet IP grades and MIL, the universal connector cap or KENWOOD official accessory must be installed/connected.
2. To maintain immersion specs (IP67), all warranty service must be done by National Kenwood Authorized Service Centers. IP67 Certification is valid under the 3 year premium warranty. No re-certification is available.

Because of spurious signal (birdie), the following frequencies (and $\pm 6.25\text{kHz}$ ranges) are not allowed:

- 854.4000 • 936.0000
- 859.2000 • 940.8000
- 864.0000
- 868.8000

STANDARD

■ GENERAL FEATURES

- 3 W (806-941 MHz) Model
- 512 CH-GID / 128 Zones
- Full Keypad Model (w/ LCD and D-pad/12 key)
- 4-Line Basic Frame (2-Line Main/Sub-LCD, icon & key guide)
- 5-Line Text Message Frame (3 Lines of Text, icon & key guide)
- Multi-Language Display
- Date & 12/24 Hour Time Clock
- 7-color Light Bar Indicator
- Transmit/Busy/Call Alert/Warn LED
- Remote Stun/Kill/Check
- On/Off Volume Knob
- 16-Position Mechanical Selector
- 4-way Directional-pad (For Standard/Full Keypad)
- Emergency Key
- 2 Side PF Keys
- 1W Speaker Audio
- Dual Digital Protocol¹
- Emergency Call Features
- Built-in GPS Receiver / Antenna
- Built-in Bluetooth® 4.0 Module
- Built-in Motion Sensor
- Active Noise Reduction (ANR)
- KPG-D3N Windows® FPU
- Flash Firmware Upgrading
- Optional Software-based DES and AES . Encryptions (Digital Only)
- MIL-STD-810 C/D/E/F/G
- IP54/55² Water & Dust Intrusion
- IP67² Immersion
- Digital Encode/Decode Format

1. Designed to operate digital, DMR OR NXDN, along with analog FM; a single FM digital protocol is selected with programming software.
2. Must equip **Accessory Cover** included with a Radio. Speaker Microphone does not cover IPs.

■ DIGITAL – NXDN® MODE

- NXDN® Conventional
- NXDN® TYPE-C (Gen1/Gen2) Trunking
- 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
- NXDN® Scrambler

■ DIGITAL – DMR MODE

- DMR Tier 2 Conventional Option
- DMR Tier 3 Trunking Option
- DMR Auto Slot Select (DASS)
- AMBE+2™VOCODER
- 12.5 kHz Channels
- Over-the-Air Alias
- Over-the-Air Programming
- Site Roaming
- Call Interrupt (Direct & Repeater Mode)
- Paging Call
- Emergency Call
- All Group Call
- Late Entry
- Status Messaging
- Remote Control by Subscriber Units
- ARC4 Encryption Option

■ 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

OPTIONAL FEATURES

- 1000 Channel (**KWD-3000CH**)
- Front Panel Programming (**KWD-3001FP**)
- Built-in Bluetooth® Module for Data (**KWD-3002BT**)
- Digital NXDN Trunking (**Factory Installed**)
- DMR Tier 2 Conventional (**KWD-3301CV**)
- DMR Tier 3 Trunking (**KWD-3301CV & KWD-3302TR**)
- DMR ARC4 Enhanced Encryption (**KWD-3502EE**)
- AES/DES Encryption (**KWD-3503AE**)
- Remote Control Command by Subscriber Units (**KWD-3504RC**)

Approved by CSA-us 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 hazardous locations.

RADIO

NX-3400K3 800/900MHz, 3.0 Watts, 512 CH, Full Key Model, NXDN Conv & Trunking

Li-ion VALUE PACKAGES (Preferred for Trunked Mode Usage)

NX-3400K3-XLKVP Extra-Cap Li-Ion Value Pack : NX-3400K3+KNB-78L(2860mAh)+KSC-25LSK



NX-3400

800/900MHz Digital & FM Analog Portable Radio

Table of Contents

CSA US APPROVED MODELS

Must Order L-5062 & KNB-79LCM Intrinsically Safe Battery per radio

NX-3400-ISCK3 800/900MHz, 3.0 Watts, 512 CH, Full Key Model, NXDN Conv & Trunking

Note: KNB-68LC is NOT compatible for NX-3000 Intrinsically Safe usage.

ANTENNAS

KRA-32K 700/800 MHz Whip Antenna

KRA-36 700/800 MHz Stubby Antenna

KRA-38K 800/900 MHz Whip Antenna

KRA-39 900 MHz Stubby Antenna

BATTERIES AND CHARGERS

KNB-78LM 2860 mAh, Li-ion battery, IP67, battery only, best for trunked mode operation

KNB-57LAM 2000 mAh, Li-ion battery, IP67, battery only, best for conventional mode operation

KNB-55LAM 1480 mAh, Li-ion battery, IP67, battery only

KNB-56N 1400 mAh, Ni-MH battery, IP67, battery only

KNB-79LCM CSA US Intrinsically Safe Battery Li-ion 2860mAh, IP67, battery only
[Intrinsically Safe Option]

KBP-5 AA Alkaline Refillable Battery Pack (6 AA; 9V) cells not included



NX-3400

800/900MHz Digital & FM Analog Portable Radio

Table of Contents

Single Unit Desk Chargers

KSC-25LSK	100~240 volt rapid rate single unit charger for KNB-40LC(V)/55L/57L/68LC/78LM/79LCM Li-ion Battery
KSC-25SK	110 volt Rapid rate single unit charger for KNB-26N/40LC(V)/55L/56N/57L/68LC/78LM/79LCM

6 Unit Chargers

KMB-16	Six Unit Charger Adapter for the KSC-16/20/24/25/25L chargers (chargers not included)
KMB-23	Six Unit Charger Adapter for the KSC-16/20/24/25/25L/32 chargers (chargers not included)
KSC-526K	Rapid rate 6-unit charger CEC Compliant Note: Requires charging pocket KSC-52PBW and/or KSC-52PCW, and/or KSC-52PAW
KSC-52PCW	Charging pocket for KSC-526K compatible with NX-3000 series
KMB-526K	Wall Mount Bracket for KSC-526K

Vehicle Chargers/Adapters

KVC-4	Vehicular charger adapter for the KSC-16/18/20/24/25SK chargers (chargers not included) *KSC-25LSK is not compatible with KVC-4.
KVC-23A	Rapid rate DC vehicular charger for TK-5x10/5x20, NX-5x00/NX-3x00/x00/x10/x20, TK-x180, TK-x170, & TK-x360 portables with Lithium Ion /Lithium Polymer/NiMH packs only. Note: Compatible with KNB-L11 battery

CARRYING ACCESSORIES

KBH-11	Spring action belt clip (2.5")
KBH-8DS	Leather swivel belt loop with portable D-Ring attachment
KLH-206K3	Heavy-Duty Leather Case w/Swivel Belt Loop for Full Keypad Model
KLH-207K3	Nylon carrying case for Full Keypad Model

MICROPHONES & AUDIO ACCESSORIES

***IP grades for microphones and audio accessories are decided by each item.**

KMC-40	MIL-SPEC, Speaker Mic. with Antenna Connector Note: 5/16" Coax cable hex wrench included (antenna is not included).
KMC-70M	MIL-SPEC, IP54/55/67/68* Speaker Mic with Active Noise Reduction Note: IP68 is available only when used with NX-5000 series portable [Intrinsically Safe Option]
KMC-72W	MIL-SPEC, IP54/55/67 Noise-cancelling Speaker Mic [Intrinsically Safe Option]
KEP-1	3.5mm earphone kit for KMC-41/42W/54W/70M/72W Speaker Mics [Intrinsically Safe Option]
KHS-11BL	2-wire palm mic w/earphone, universal connector (Black) [Intrinsically Safe Option]
KHS-12BL	3-wire mini lapel mic w/earphone, universal connector (Black) Note: Not compatible with TDMA operations [Intrinsically Safe Option]
KHS-14C	Lt. Wt. Single muff headset w/boom mic & In-line PTT Note: Operating & Storage temperature is -4°F to 122°F (-20°C to 50°C)
KHS-15DC-BH	Hvy-duty behind-the-headset w/boom mic & earcup-mounted PTT with NRR of 24dB [Intrinsically Safe Option]
KHS-15D-OH	Hvy-duty noise reduction over-the-headset w/noise cancelling boom mic & PTT [Intrinsically Safe Option]



NX-3400

800/900MHz Digital & FM Analog Portable Radio

Table of Contents

Sensear Bluetooth® Headsets Non-IS Models (SENS® Technology)

SM1PB003	Sensear Non-IS BT Headband Single hearing protection IP54 with NRR of 27dB
SM1PE003	Sensear Non-IS BT Behind-the-Neck Single hearing protection IP54 with NRR of 24dB
SM1PH003	Sensear Non-IS BT Helmet Mount Single hearing protection IP54 with NRR of 23dB

Sensear Bluetooth® Headsets IS Rated Models (SENS® Technology)

SM1PBIS02*	Sensear IS Rated BT Headband Single hearing protection IP54 with NRR of 27dB
SM1PEIS02*	Sensear IS Rated BT Behind-the-Neck Single hearing protection IP54 with NRR of 24dB
SM1PHIS02*	Sensear IS Rated BT Helmet Mount Single hearing protection IP54 with NRR of 23dB
SM1PBISDP02*	Sensear IS Rated BT Headband Dual hearing protection IP54 with NRR of 36dB
SM1PEISDP02*	Sensear IS Rated BT Behind-the-Neck Dual hearing protection IP54 with NRR of 36dB
SM1PHISDP02*	Sensear IS Rated BT Helmet Mount Dual hearing protection IP54 with NRR of 36dB

*SM1P-IS & SM1P-ISDP Series Headsets Intrinsic Safety:

IS certification: TIA-4950-A, CSA C22.2 No. 157.92, & UL 913 5th Edition with a hazardous location rating of Class I, II, III, Division 1 & 2, Groups A - G, T4 - 20°C to +40°C, T3C -20°C to +50°C

OPTION MODULES

KCT-48VU	External Vibration Unit Note: Audio accessories cannot be used when this option installed.
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SERVICE RELATED ACCESSORIES

KPG-D3NK	License Key for KPG-D3NK Programming Software for NX-3000 Portable/Mobile Note: Requires KPT-300LMC for authentication
KPG-AE1K	License Key for AES/DES Encryption Software Key Loader for KWD-3503AE Note: - Requires KPT-300LMC for authentication - KPG-AE1 is a U.S. DOC/BIS Export Controlled Item (ECCN 5D002A).
KPG-DE1K	License Key for DES Encryption Software Key Loader for KWD-3505DE Note: - Requires KPT-300LMC for authentication
KPG-36XM	Full Speed USB Programming interface cable

INSTALLATION / TUNING CHARGES

L-836	Assemble KMB-16 with six KSC-25/25L
L-961	Assemble KMB-23 with six KSC-24/25/25L/32 (Rapid Rate, 120 Volt versions only)
L-5001	Factory Activation of Radio Feature Licenses (per Radio) Note: Must purchase Radio Feature Licenses separately. <u>KPT-300LMC's History Menu will not display the Radio Features activated by Factory.</u>
L-5052	NX-3000 Series Portables Programming (with basic TX/RX check) Must submit NX-x000 Series Programming Order Form upon placing order for any programming services.
L-5054	Installation AES/DES for NX-3000 Portable/Mobile
L-5062	Configure NX-3000 series for CSA US Intrinsically Safe Note: NX-3000 series I.S. radios must be used with matching I.S. battery KNB-79LCM.



NX-3220/3320

Table of Contents

VHF/UHF Digital & FM Analog Portable Radios

STANDARD



Basic Standard Key Full Key

All NX-3000 series portables include:

- Belt Clip (KBH-11)
- 2-PIN Accessory Cover
- Channel Stopper
- User Guide
- Premium Warranty: 3 Years*

All Accessories / options: 1 Year

Purchase Battery, Charger, Antenna separately

Note:

1. To meet IP grades and MIL, the 2-pin connector cap must be installed.
2. To maintain immersion specs (IP67), all warranty service must be done by National Kenwood Authorized Service Centers. IP67 Certification is valid under the 3 year premium warranty. No recertification is available.

Because of spurious signal (birdie), the following frequencies (and ±7.5kHz ranges) are not allowed:

- | | | |
|------------|------------|------------|
| • 139.2000 | • 403.2000 | • 460.8000 |
| • 144.0000 | • 408.0000 | • 465.6000 |
| • 148.8000 | • 412.8000 | • 470.4000 |
| • 153.6000 | • 417.6000 | • 475.2000 |
| • 158.4000 | • 422.4000 | • 480.0000 |
| • 160.0000 | • 427.2000 | • 484.8000 |
| • 163.2000 | • 432.0000 | • 489.6000 |
| • 168.0000 | • 436.8000 | • 494.4000 |
| • 172.8000 | • 441.6000 | • 499.2000 |
| | • 446.4000 | • 504.0000 |
| | • 451.2000 | • 508.8000 |
| | • 456.0000 | • 513.6000 |
| | | • 518.4000 |

GENERAL FEATURES

- 5 W (136-174 MHz) Models
- 5 W (400-520 MHz) Models
- 260 CH-GID / 128 Zones
- 64 CH-GID / 4 Zones (For Basic Models)
- Basic Models (w/o LCD and keypad)
- Standard Keypad Models (w/ LCD and D-pad/4key)
- Full Keypad Models (w/ LCD and D-pad/12 key)
- 4-Line Basic Frame (2-Line Main/Sub-LCD, icon & key guide)
- 5-Line Text Message Frame (3 Lines of Text, icon & key guide)
- Multi-Language Display
- Date & 12/24 Hour Time Clock
- 7-color Light Bar Indicator
- Transmit/Busy/Call Alert/Warn LED
- Remote Stun/Kill/Check
- On/Off Volume Knob
- 16-Position Mechanical Selector
- 4-way Directional-pad (For Standard/Full Keypad)
- Emergency Key
- 2 Side PF Keys
- 1W Speaker Audio
- Dual Digital Protocol¹
- Emergency Call Features
- Built-in GPS Receiver / Antenna
- Built-in Bluetooth[®] 4.0 Module
- Built-in Motion Sensor
- Active Noise Reduction (ANR)
- KPG-D3N Windows[®] FPU
- Flash Firmware Upgrading
- Optional Software-based DES and AES Encryptions (Digital Only)
- MIL-STD-810 C/D/E/F/G
- IP54/55² Water & Dust Intrusion
- IP67² Immersion
- Color Housing Option

*1. Designed to operate digital, DMR OR NXDN, along with analog FM; a single FM digital protocol is selected with programming software.
2. Must equip **Accessory Cover** included with a Radio. Speaker Microphone does not cover IPs.*

DIGITAL – NXDN[®] MODE

- NXDN[®] Conventional
- NXDN[®] TYPE-C (Gen1/Gen2) Trunking Option
- AMBE+2[™] VOCODER
- 6.25 & 12.5 kHz Channels
- Over-the-Air Alias
- Over-the-Air Programming
- Paging Call
- Emergency Call
- All Group Call
- Digital Two-Tone
- Status Messaging
- Remote Stun/Kill/Check
- Short & Long Data Messages
- GPS Location
- NXDN[®] Scrambler

DIGITAL – DMR MODE

- DMR Tier 2 Conventional
- DMR Tier 3 Trunking Option
- DMR Auto Slot Select (DASS)
- AMBE+2[™]VOCODER
- 12.5 kHz Channels
- Over-the-Air Alias
- Over-the-Air Programming
- Site Roaming
- Call Interrupt (Direct & Repeater Mode)
- Paging Call
- Emergency Call
- All Group Call
- Late Entry
- Status Messaging
- Remote Control by Subscriber Units
- ARC4 Encryption Option

ANALOG MODE

- Conventional Zones
- LTR[®] Zones
- FleetSync[®]/III: 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

OPTIONAL FEATURES

- 1000 Channel (**KWD-3000CH**)
- Front Panel Programming (**KWD-3001FP**)
- Built-in Bluetooth[®] Module for Data (**KWD-3002BT**)
- Digital NXDN Trunking and Trunking 2.5 (**KWD-3501TR**)
- DMR Tier 2 Conventional (**Factory Installed**)
- DMR Tier 3 Trunking and Trunking 2.5 (**KWD-3302TR**)
- DMR ARC4 Enhanced Encryption (**KWD-3502EE**)
- AES/DES Encryption (**KWD-3503AE**)
- Remote Control Command by Subscriber Units (**KWD-3504RC**)

Approved by CSA-us International Inc. 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 hazardous locations.



NX-3220/3320

Table of Contents

VHF/UHF Digital & FM Analog Portable Radios

RADIO

NX-3220K	VHF (136-174MHz), 5.0 Watts, 64 CH, Basic Model
NX-3220K2	VHF (136-174MHz), 5.0 Watts, 260CH, Standard Key Model
NX-3220K3	VHF (136-174MHz), 5.0 Watts, 260CH, Full Key Model
NX-3320K	UHF (400-520MHz), 5.0 Watts, 64 CH, Basic Model
NX-3320K2	UHF (400-520MHz), 5.0 Watts, 260CH, Standard Key Model
NX-3320K3	UHF (400-520MHz), 5.0 Watts, 260CH, Full Key Model

RADIO TRUNKING PACKAGE

NX-3220K-TR	VHF (136-174MHz), 5.0 Watts, 64 CH, Basic Model <u>with NXDN Trunking</u>
NX-3220K2-TR	VHF (136-174MHz), 5.0 Watts, 260CH, Standard Key Model <u>with NXDN Trunking</u>
NX-3220K3-TR	VHF (136-174MHz), 5.0 Watts, 260CH, Full Key Model <u>with NXDN Trunking</u>
NX-3320K-TR	UHF (400-520MHz), 5.0 Watts, 64 CH, Basic Model <u>with NXDN Trunking</u>
NX-3320K2-TR	UHF (400-520MHz), 5.0 Watts, 260CH, Standard Key Model <u>with NXDN Trunking</u>
NX-3320K3-TR	UHF (400-520MHz), 5.0 Watts, 260CH, Full Key Model <u>with NXDN Trunking</u>

Li-ion VALUE PACKAGES (Preferred for Trunked Mode Usage)

NX-3220K2-XLKVP	VHF Extra-Cap Li-Ion Value Pack : NX-3220K2+KNB-78L(2860mAh)+KSC-25LSK+KRA-26M
NX-3320K2-XLKVP	UHF Extra-Cap Li-Ion Value Pack : NX-3320K2+KNB-78L(2860mAh)+KSC-25LSK+KRA-27M

Li-ion VALUE PACKAGES (Preferred for Conventional Mode Usage)

NX-3220K2LAKVP	VHF Hi-Cap Li-Ion Value Pack : NX-3220K2+KNB-57LAM(2000mAh)+KSC-25LSK+KRA-26M
NX-3320K2LAKVP	UHF Hi-Cap Li-Ion Value Pack : NX-3320K2+KNB-57LAM(2000mAh)+KSC-25LSK+KRA-27M
NX-3220KSLAKVP	VHF Li-Ion Value Pack : NX-3220K+KNB-55LAM(1480mAh)+KSC-25LSK+KRA-26M
NX-3220K2SLAKVP	VHF Li-Ion Value Pack : NX-3220K2+KNB-55LAM(1480mAh)+KSC-25LSK+KRA-26M
NX-3220K3SLAKVP	VHF Li-Ion Value Pack : NX-3220K3+KNB-55LAM(1480mAh)+KSC-25LSK+KRA-26M
NX-3320KSLAKVP	UHF Li-Ion Value Pack : NX-3320K+KNB-55LAM(1480mAh)+KSC-25LSK+KRA-27M
NX-3320K2SLAKVP	UHF Li-Ion Value Pack : NX-3320K2+KNB-55LAM(1480mAh)+KSC-25LSK+KRA-27M
NX-3320K3SLAKVP	UHF Li-Ion Value Pack : NX-3320K3+KNB-55LAM(1480mAh)+KSC-25LSK+KRA-27M

CSA US APPROVED MODELS

Must Order L-5062 & KNB-79LCM Intrinsically Safe Battery per radio

NX-3220-ISCK	VHF (136-174MHz), 5.0 Watts, 64 CH, Basic Model
NX-3220-ISCK2	VHF (136-174MHz), 5.0 Watts, 512 CH, Standard Key Model
NX-3220-ISCK3	VHF (136-174MHz), 5.0 Watts, 512 CH, Full Key Model
NX-3320-ISCK	UHF (400-520MHz), 5.0 Watts, 64 CH, Basic Model
NX-3320-ISCK2	UHF (400-520MHz), 5.0 Watts, 512 CH, Standard Key Model
NX-3320-ISCK3	UHF (400-520MHz), 5.0 Watts, 512 CH, Full Key Model

Note: KNB-68LC is NOT compatible for NX-3000 Intrinsically Safe usage.



NX-3220/3320

Table of Contents

VHF/UHF Digital & FM Analog Portable Radios

ANTENNAS

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 470-520 MHz
KRA-23M3	UHF Low-profile helical antenna 403-430 MHz
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-41M	VHF stubby antenna 148-162 MHz
KRA-41M2	VHF stubby antenna 162-174 MHz
KRA-41M3	VHF stubby antenna 136-150 MHz
KRA-42M	UHF stubby antenna 440-490 MHz
KRA-42M2	UHF stubby antenna 470-520 MHz
KRA-42M3	UHF stubby antenna 403-430 MHz
KRA-25	High gain VHF helically loaded whip antenna 148-162 MHz
KRA-28	Broad-band VHF helically loaded whip antenna 140-170 MHz

BATTERIES AND CHARGERS

KNB-78LM	2860 mAh, Li-ion battery, IP67, battery only, best for trunked mode operation
KNB-57LAM	2000 mAh, Li-ion battery, IP67, battery only, best for conventional mode operation
KNB-55LAM	1480 mAh, Li-ion battery, IP67, battery only
KNB-56N	1400 mAh, Ni-MH battery, IP67, battery only
KNB-79LCM	CSA US Intrinsically Safe Battery Li-ion 2860mAh, IP67, battery only [Intrinsically Safe Option]
KBP-5	AA Alkaline Refillable Battery Pack (6 AA; 9V) cells not included



NX-3220/3320

Table of Contents

VHF/UHF Digital & FM Analog Portable Radios

Single Unit Desk Chargers

KSC-25LSK	100~240 volt rapid rate single unit charger for KNB-40LC(V)/55L/57L/57LAM/68LC/78LM/79LCM Li-ion Battery
KSC-25SK	110 volt Rapid rate single unit charger for KNB-26N/40LC(V)/55L/56N/57L/57LAM/68LC/78LM/79LCM

6 Unit Chargers

KMB-16	Six Unit Charger Adapter for the KSC-16/20/24/25/25L chargers (chargers not included)
KMB-23	Six Unit Charger Adapter for the KSC-16/20/24/25/25L/32 chargers (chargers not included)
KSC-526K	Rapid rate 6-unit charger CEC Compliant Note: Requires charging pocket KSC-52PBW and/or KSC-52PCW, and/or KSC-52PAW
KSC-52PCW	Charging pocket for KSC-526K compatible with NX-3000 series
KMB-526K	Wall Mount Bracket for KSC-526K

Vehicle Chargers/Adapters

KVC-4	Vehicular charger adapter for the KSC-16/18/20/24/25SK chargers (chargers not included) *KSC-25LSK is not compatible with KVC-4.
KVC-23A	Rapid rate DC vehicular charger for TK-5x10/5x20, NX-5x00/NX-3x00/x00/x10/x20, TK-x180, TK-x170, & TK-x360 portables with Lithium Ion /Lithium Polymer/NiMH packs only. Note: Compatible with KNB-L11 battery

CARRYING ACCESSORIES

KBH-11	Spring action belt clip (2.5")
KBH-8DS	Leather swivel belt loop with portable D-Ring attachment
KLH-206K	Heavy-Duty Leather Case w/Swivel Belt Loop for Basic Model
KLH-206K2	Heavy-Duty Leather Case w/Swivel Belt Loop for Standard Keypad Model
KLH-206K3	Heavy-Duty Leather Case w/Swivel Belt Loop for Full Keypad Model
KLH-207K	Nylon carrying case for Basic Model
KLH-207K2	Nylon carrying case for Standard Keypad Model
KLH-207K3	Nylon carrying case for Full Keypad Model

SPECIAL COLOR HOUSING

KWD-YH-3000P	High Visibility Green Housing Kit for NX-3x20 series Standard Key Portables Must order L-5068 for Factory Install. Eligible for warranty of IP67 immersion only when factory installed with L-5068. Note: If you order only housing and perform Dealer Installation, IP67 Warranty Claim will not be eligible. Note: Coloring of housing changed to High Visibility Green after Nov 2021 production. Original yellow is no longer available.
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MICROPHONES & AUDIO ACCESSORIES

***IP grades for microphones and audio accessories are decided by each item.**

KMC-45D	MIL-SPEC, IP54/55 Speaker microphone (Built-in 2.5mm miniature earphone jack) Note: KMC-45 (Non D version) is not compatible with DMR (TDMA) operation. [Intrinsically Safe Option]
KMC-21A	Compact speaker microphone [Intrinsically Safe Option]
KEP-2	2.5mm earphone kit for KMC-17/45 Speaker Mic [Intrinsically Safe Option]
KHS-7C	Single muff headset w/boom mic no PTT Note: Operating & Storage temperature is -4°F to 122°F (-20°C to 50°C)
KHS-7AC	Lt. Wt Single muff headset w/boom mic & in-line PTT Note: Operating & Storage temperature is -4°F to 122°F (-20°C to 50°C)
KHS-8BL	Two-Wire palm mic w/earphone (black) [Intrinsically Safe Option]
KHS-9BL	Three-Wire lapel mic w/earphone (black) Note: Available for Analog and NXDN (FDMA) only. NOT compatible with DMR (TDMA) operations.



NX-3220/3320

Table of Contents

VHF/UHF Digital & FM Analog Portable Radios

KHS-10DC-BH	Hvy-duty Behind-the-head Headset W/boom Mic Earcup-mounted PTT with NRR of 24dB [Intrinsically Safe Option]
KHS-10DC-OH	Hvy-duty Over-the-head Headset W/boom Mic Earcup-mounted PTT with NRR of 24dB [Intrinsically Safe Option]
KHS-22A	Behind-the-Head Headset with flexible boom mic and in-line PTT single ear receiver (low profile wire head band) [Intrinsically Safe Option]
KHS-26	Clip Mic w/earphone
KHS-27A	D-Ring Ear Hanger w/PTT & Mic
KHS-31C	C-Ring Ear Hanger w/PTT & Mic
Sensear Bluetooth® Headsets Non-IS Models (SENS® Technology)	
SM1PB003	Sensear Non-IS BT Headband Single hearing protection IP54 with NRR of 27dB
SM1PE003	Sensear Non-IS BT Behind-the-Neck Single hearing protection IP54 with NRR of 24dB
SM1PH003	Sensear Non-IS BT Helmet Mount Single hearing protection IP54 with NRR of 23dB
Sensear Bluetooth® Headsets IS Rated Models (SENS® Technology)	
SM1PBIS02*	Sensear IS Rated BT Headband Single hearing protection IP54 with NRR of 27dB
SM1PEIS02*	Sensear IS Rated BT Behind-the-Neck Single hearing protection IP54 with NRR of 24dB
SM1PHIS02*	Sensear IS Rated BT Helmet Mount Single hearing protection IP54 with NRR of 23dB
SM1PBISDP02*	Sensear IS Rated BT Headband Dual hearing protection IP54 with NRR of 36dB
SM1PEISDP02*	Sensear IS Rated BT Behind-the-Neck Dual hearing protection IP54 with NRR of 36dB
SM1PHISDP02*	Sensear IS Rated BT Helmet Mount Dual hearing protection IP54 with NRR of 36dB
*SM1P-IS & SM1P-ISDP Series Headsets Intrinsic Safety: IS certification: TIA-4950-A, CSA C22.2 No. 157.92, & UL 913 5th Edition with a hazardous location rating of Class I, II, III, Division 1 & 2, Groups A - G, T4 - 20°C to +40°C, T3C -20°C to +50°C	
SERVICE RELATED ACCESSORIES	
KPG-D3NK	License Key for KPG-D3NK Programming Software for NX-3000 Portable/Mobile Note: Requires KPT-300LMC for authentication
KPG-AE1K	License Key for AES/DES Encryption Software Key Loader for KWD-3503AE Note: - Requires KPT-300LMC for authentication - KPG-AE1 is a U.S. DOC/BIS Export Controlled Item (ECCN 5D002A).
KPG-DE1K	License Key for DES Encryption Software Key Loader for KWD-3505DE Note: - Requires KPT-300LMC for authentication
KPG-22UM	USB Programming interface cable
INSTALLATION / TUNING CHARGES	
L-836	Assemble KMB-16 with six KSC-25/25L
L-961	Assemble KMB-23 with six KSC-24/25/25L/32 (Rapid Rate, 120 Volt versions only)
L-5001	Factory Activation of Radio Feature Licenses (per Radio) Note: Must purchase Radio Feature Licenses separately. KPT-300LMC's History Menu will not display the Radio Features activated by Factory.
L-5052	NX-3000 Series Portables Programming (with basic TX/RX check) Must submit <u>NX-x000 Series Programming Order Form</u> upon placing order for any programming services.
L-5054	Installation AES/DES for NX-3000 Portable/Mobile
L-5062	Configure NX-3000 series for CSA US Intrinsically Safe Note: NX-3000 series I.S. radios must be used with matching I.S. battery KNB-79LCM.
L-5068	Assemble Color Housing KWD-YH-3000U/P with NX-3000 series Portable



NX-3420

800/900MHz Digital & FM Analog Portable Radio

Table of Contents



All NX-3420 portables include:

- Belt Clip (KBH-11)
- Antenna (KRA-38K)
- 2-PIN Accessory Cover
- Channel Stopper
- User Guide
- Premium Warranty: 3 Years*

All Accessories / options: 1 Year

Purchase Battery and Charger separately

Note:

1. To meet IP grades and MIL, the 2-pin connector cap must be installed.
2. To maintain immersion specs (IP67), all warranty service must be done by National Kenwood Authorized Service Centers. IP67 Certification is valid under the 3 year premium warranty. No re-certification is available.

Because of spurious signal (birdie), the following frequencies (and ±6.25kHz ranges) are not allowed:

- 854.4000 • 936.0000
- 859.2000 • 940.8000
- 864.0000
- 868.8000

STANDARD

■ GENERAL FEATURES

- 3 W (806-941 MHz) Model
- 260 CH-GID / 128 Zones
- Full Keypad Model (w/ LCD and D-pad/12 key)
- 4-Line Basic Frame (2-Line Main/Sub-LCD, icon & key guide)
- 5-Line Text Message Frame (3 Lines of Text, icon & key guide)
- Multi-Language Display
- Date & 12/24 Hour Time Clock
- 7-color Light Bar Indicator
- Transmit/Busy/Call Alert/Warn LED
- Remote Stun/Kill/Check
- On/Off Volume Knob
- 16-Position Mechanical Selector
- 4-way Directional-pad (For Standard/Full Keypad)
- Emergency Key
- 2 Side PF Keys
- 1W Speaker Audio
- Dual Digital Protocol¹
- Emergency Call Features
- Built-in GPS Receiver / Antenna
- Built-in Bluetooth® 4.0 Module
- Built-in Motion Sensor
- Active Noise Reduction (ANR)
- KPG-D3N Windows® FPU
- Flash Firmware Upgrading
- Optional Software-based DES and AES . Encryptions (Digital Only)
- MIL-STD-810 C/D/E/F/G
- IP54/55² Water & Dust Intrusion
- IP67² Immersion
- Digital Encode/Decode Format

1. Designed to operate digital, DMR OR NXDN, along with analog FM; a single FM digital protocol is selected with programming software.
2. Must equip **Accessory Cover** included with a Radio. Speaker Microphone does not cover IPs.

■ DIGITAL – NXDN® MODE

- NXDN® Conventional
- NXDN® TYPE-C (Gen1/Gen2) Trunking
- 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
- NXDN® Scrambler

■ DIGITAL – DMR MODE

- DMR Tier 2 Conventional Option
- DMR Tier 3 Trunking Option
- DMR Auto Slot Select (DASS)
- AMBE+2™ VOCODER
- 12.5 kHz Channels
- Over-the-Air Alias
- Over-the-Air Programming
- Site Roaming
- Call Interrupt (Direct & Repeater Mode)
- Paging Call
- Emergency Call
- All Group Call
- Late Entry
- Status Messaging
- Remote Control by Subscriber Units
- ARC4 Encryption Option

■ 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 FEATURES

- 1000 Channel (**KWD-3000CH**)
- Front Panel Programming (**KWD-3001FP**)
- Built-in Bluetooth® Module for Data (**KWD-3002BT**)
- Digital NXDN Trunking (**Factory Installed**)
- DMR Tier 2 Conventional (**KWD-3301CV**)
- DMR Tier 3 Trunking (**KWD-3301CV & KWD-3302TR**)
- DMR ARC4 Enhanced Encryption (**KWD-3502EE**)
- AES/DES Encryption (**KWD-3503AE**)
- Remote Control Command by Subscriber Units (**KWD-3504RC**)

Approved by CSA-us International Inc. 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 hazardous locations.

RADIO

NX-3420K3 800/900MHz, 3.0 Watts, 260 CH, Full Key Model, NXDN Conv & Trunking

Li-ion VALUE PACKAGES (Preferred for Trunked Mode Usage)

NX-3420K3-XLKVP Extra-Cap Li-Ion Value Pack : NX-3420K3+KNB-78L(2860mAh)+KSC-25LSK



NX-3420

800/900MHz Digital & FM Analog Portable Radio

Table of Contents

CSA US APPROVED MODELS

Must Order L-5062 & KNB-79LCM Intrinsically Safe Battery per radio

NX-3420-ISCK3 800/900MHz, 3.0 Watts, 260 CH, Full Key Model, NXDN Conv & Trunking

Note: KNB-68LC is NOT compatible for NX-3000 Intrinsically Safe usage.

Radio Features

KWD-3000CH	License Key for 1000 Channel Expansion
KWD-3001FP	License Key for Front Panel Programming
KWD-3002BT	License Key for Bluetooth Data (Required for Data Communication) Note: Voice Communication for Bluetooth Head Set does NOT require KWD-3002BT. You can pair with any Bluetooth audio device without this option.
KWD-3301CV	License Key for DMR Tier 2 Conventional
KWD-3302TR	License Key for DMR Tier 3 Trunking (Requires KWD-3301CV)
KWD-3502EE	License Key for DMR ARC4 Enhanced Encryption
KWD-3503AE	License Key for AES/DES Encryption
KWD-3504RC	License Key for Remote Control by Subscriber Unit
KWD-3505DE	License Key for DES Encryption Note: Requires KPG-AE1/DE1 software key loader to load encryption keys

ANTENNAS

KRA-32K	700/800 MHz Whip Antenna
KRA-36	700/800 MHz Stubby Antenna
KRA-38K	800/900 MHz Whip Antenna
KRA-39	900 MHz Stubby Antenna

BATTERIES AND CHARGERS

KNB-78LM	2860 mAh, Li-ion battery, IP67, battery only, best for trunked mode operation
KNB-57LAM	2000 mAh, Li-ion battery, IP67, battery only, best for conventional mode operation
KNB-55LAM	1480 mAh, Li-ion battery, IP67, battery only
KNB-56N	1400 mAh, Ni-MH battery, IP67, battery only
KNB-79LCM	CSA US Intrinsically Safe Battery Li-ion 2860mAh, IP67, battery only [Intrinsically Safe Option]
KBP-5	AA Alkaline Refillable Battery Pack (6 AA; 9V) cells not included



NX-3420

800/900MHz Digital & FM Analog Portable Radio

Table of Contents

Single Unit Desk Chargers

KSC-25LSK	100~240 volt rapid rate single unit charger for KNB-40LC(V)/55L/57L/57LAM/68LC/78LM/79LCM Li-ion Battery
KSC-25SK	110 volt Rapid rate single unit charger for KNB-26N/40LC(V)/55L/56N/57L/57LAM/68LC/78LM/79LCM

6 Unit Chargers

KMB-16	Six Unit Charger Adapter for the KSC-16/20/24/25/25L chargers (chargers not included)
KMB-23	Six Unit Charger Adapter for the KSC-16/20/24/25/25L/32 chargers (chargers not included)
KSC-526K	Rapid rate 6-unit charger CEC Compliant Note: Requires charging pocket KSC-52PBW and/or KSC-52PCW, and/or KSC-52PAW
KSC-52PCW	Charging pocket for KSC-526K compatible with NX-3000 series
KMB-526K	Wall Mount Bracket for KSC-526K

Vehicle Chargers/Adapters

KVC-4	Vehicular charger adapter for the KSC-16/18/20/24/25SK chargers (chargers not included) *KSC-25LSK is not compatible with KVC-4.
KVC-23A	Rapid rate DC vehicular charger for TK-5x10/5x20, NX-5x00/NX-3x00/x00/x10/x20, TK-x180, TK-x170, & TK-x360 portables with Lithium Ion /Lithium Polymer/NiMH packs only. Note: Compatible with KNB-L11 battery

CARRYING ACCESSORIES

KBH-11	Spring action belt clip (2.5")
KBH-8DS	Leather swivel belt loop with portable D-Ring attachment
KLH-206K3	Heavy-Duty Leather Case w/Swivel Belt Loop for Full Keypad Model
KLH-207K3	Nylon carrying case for Full Keypad Model

MICROPHONES & AUDIO ACCESSORIES

***IP grades for microphones and audio accessories are decided by each item.**

KMC-45D	MIL-SPEC, IP54/55 Speaker microphone (Built-in 2.5mm miniature earphone jack) Note: KMC-45 (Non D version) is not compatible with DMR (TDMA) operation. [Intrinsically Safe Option]
KMC-21A	Compact speaker microphone [Intrinsically Safe Option]
KEP-2	2.5mm earphone kit for KMC-17/45 Speaker Mic [Intrinsically Safe Option]
KHS-7C	Single muff headset w/boom mic no PTT Note: Operating & Storage temperature is -4°F to 122°F (-20°C to 50°C)
KHS-7AC	Lt. Wt Single muff headset w/boom mic & in-line PTT Note: Operating & Storage temperature is -4°F to 122°F (-20°C to 50°C)
KHS-8BL	Two-Wire palm mic w/earphone (black) [Intrinsically Safe Option]
KHS-9BL	Three-Wire lapel mic w/earphone (black) Note: Available for Analog and NXDN (FDMA) only. NOT compatible with DMR (TDMA) operations.
KHS-10DC-BH	Hvy-duty Behind-the-head Headset W/boom Mic Earcup-mounted PTT with NRR of 24dB [Intrinsically Safe Option]
KHS-10DC-OH	Hvy-duty Over-the-head Headset W/boom Mic Earcup-mounted PTT with NRR of 24dB [Intrinsically Safe Option]
KHS-22A	Behind-the-Head Headset with flexible boom mic and in-line PTT single ear receiver (low profile wire head band) [Intrinsically Safe Option]
KHS-26	Clip Mic w/earphone
KHS-27A	D-Ring Ear Hanger w/PTT & Mic
KHS-31C	C-Ring Ear Hanger w/PTT & Mic



NX-3420

800/900MHz Digital & FM Analog Portable Radio

Table of Contents

Sensear Bluetooth® Headsets Non-IS Models (SENS® Technology)

SM1PB003	Sensear Non-IS BT Headband Single hearing protection IP54 with NRR of 27dB
SM1PE003	Sensear Non-IS BT Behind-the-Neck Single hearing protection IP54 with NRR of 24dB
SM1PH003	Sensear Non-IS BT Helmet Mount Single hearing protection IP54 with NRR of 23dB

Sensear Bluetooth® Headsets IS Rated Models (SENS® Technology)

SM1PBIS02*	Sensear IS Rated BT Headband Single hearing protection IP54 with NRR of 27dB
SM1PEIS02*	Sensear IS Rated BT Behind-the-Neck Single hearing protection IP54 with NRR of 24dB
SM1PHIS02*	Sensear IS Rated BT Helmet Mount Single hearing protection IP54 with NRR of 23dB
SM1PBISDP02*	Sensear IS Rated BT Headband Dual hearing protection IP54 with NRR of 36dB
SM1PEISDP02*	Sensear IS Rated BT Behind-the-Neck Dual hearing protection IP54 with NRR of 36dB
SM1PHISDP02*	Sensear IS Rated BT Helmet Mount Dual hearing protection IP54 with NRR of 36dB

*SM1P-IS & SM1P-ISDP Series Headsets Intrinsic Safety:

IS certification: TIA-4950-A, CSA C22.2 No. 157.92, & UL 913 5th Edition with a hazardous location rating of Class I, II, III, Division 1 & 2, Groups A - G, T4 -20°C to +40°C, T3C -20°C to +50°C

SERVICE RELATED ACCESSORIES

KPG-D3NK	License Key for KPG-D3NK Programming Software for NX-3000 Portable/Mobile Note: Requires KPT-300LMC for authentication
KPG-AE1K	License Key for AES/DES Encryption Software Key Loader for KWD-3503AE Note: - Requires KPT-300LMC for authentication - KPG-AE1 is a U.S. DOC/BIS Export Controlled Item (ECCN 5D002A).
KPG-DE1K	License Key for DES Encryption Software Key Loader for KWD-3505DE Note: - Requires KPT-300LMC for authentication
KPG-22UM	USB Programming interface cable

INSTALLATION / TUNING CHARGES

L-836	Assemble KMB-16 with six KSC-25/25L
L-961	Assemble KMB-23 with six KSC-24/25/25L/32 (Rapid Rate, 120 Volt versions only)
L-5001	Factory Activation of Radio Feature Licenses (per Radio) Note: Must purchase Radio Feature Licenses separately. KPT-300LMC's History Menu will not display the Radio Features activated by Factory.
L-5052	NX-3000 Series Portables Programming (with basic TX/RX check) Must submit NX-x000 Series Programming Order Form upon placing order for any programming services.
L-5054	Installation AES/DES for NX-3000 Portable/Mobile
L-5062	Configure NX-3000 series for CSA US Intrinsically Safe Note: NX-3000 series I.S. radios must be used with matching I.S. battery KNB-79LCM.

NX-1200NV/1300NU

VHF/UHF NXDN & FM Analog Portable Radios



All NX-1000 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
- Premium Warranty: 3 Years*

* All Accessories / options: 1 Year

Note:

1. To meet IP grades and MIL, the 2-pin connector cap or accessory must be installed.

STANDARD

GENERAL FEATURES

- 5 W (136-174 MHz) Models
- 5 W (400-470 MHz) Models
- 5 W (450-520 MHz) Models
- NXDN & Analog Mode
- Optional DMR Mode Conversion
- AMBE+2™ VOCODER
- 260 CH-GID / 128 Zones
- 64 CH-GID / 4 Zones (For Basic Models)
- Basic Models
- Standard Keypad Models w/ LCD
- 13-seg, 8-character LCD
- 7-color LED Indicator
- KENWOOD Audio Quality
 - Audio Equalizer: Flat, High, or Low
 - Auto Gain Control: On, High, or Low
 - Noise Suppressor
 - Microphone type selection
- Multiple Scan Functions
 - Dual Priority, Single, Zone, Multi, Scan
- On/Off Volume Knob
- 16-Position Mechanical Selector
- 2 Side PF Keys
- 1W Speaker Audio
- VOX
- Emergency Call Features
- Lone Worker
- Max/Min Volume Setting
- Voice Announcement
- Front Panel Programming Mode
- Flash Firmware Upgrading
- MIL-STD-810 C/D/E/F/G
- IP54/55 Water & Dust Intrusion
- Intrinsically Safe Option

DIGITAL – NXDN® MODE

- NXDN® Conventional & Site Roaming
- NXDN® Type-D Trunking Option
- 6.25 & 12.5 kHz Channels
- Over-the-Air Alias
- Digital / Analog Mixed Mode
- Group / Individual Call
- Status, Short Data, Paging Call
- Remote Stun, Kill, Monitor, Check, & Control
- NXDN® Scrambler
- NXDN® ESN Validation (for Type-D System)
- Late Entry

DIGITAL – DMR MODE (Optional)

- DMR Tier 2 Conventional & Site Roaming
- DMR Auto Slot Select (DASS)
- 12.5 kHz Channels
- Digital / Analog Mixed Mode
- Call Interrupt
- Group / Individual Call
- Status, Short Data, Paging Call
- Remote Stun, Kill, Monitor, Check, & Control
- Over-the-Air Alias
- Late Entry
- ARC4 Encryption Option

ANALOG MODE

- Conventional Zones
- FleetSync®: PTT ID, Stun/Revive, Talk back, Selcall
- MDC-1200: PTT ID, Radio Inhibit/Unihit, Radio Check, Emergency
- QT / DQT, Two-Tone, DTMF
- Built-in Voice Inversion Scrambler
- Built-in Compander

OPTIONAL FEATURES

- NXDN Type-D Trunking License (**KWD-1202TDK**)
- DMR Conversion License (**KWD-1301CN**)
- DMR ARC4 Enhanced Encryption (**KWD-1500EE**) *Only applicable after DMR conversion
- Remote Control Command by Subscriber Units (**KWD-1501RC**)

Digital mode conversion & Type-D requires additional firmware loading after applying upgrade license. Please download latest firmware from MyTools website > Product > Firmware

Approved for Class I, Div. 1, Group D and are also approved for non-Incendive use in Class I, Div. 2, Groups A, B, C, D hazardous locations.

RADIO

NX-1200NVBK	VHF (136-174MHz), 5W, 64 CH, Basic Model, NXDN/Analog
NX-1200NVBK2	VHF (136-174MHz), 5W, 260 CH, LCD & Standard Keypad, NXDN/Analog
NX-1300NUBK	UHF (450-520MHz), 5W, 64 CH, Basic Model, NXDN/Analog
NX-1300NUBK2	UHF (450-520MHz), 5W, 260 CH, LCD & Standard Keypad, NXDN/Analog
NX-1300NUBK4	UHF (400-470MHz), 5W, 64 CH, Basic Model, NXDN/Analog
NX-1300NUBK5	UHF (400-470MHz), 5W, 260 CH, LCD & Standard Keypad, NXDN/Analog

CSA US APPROVED MODELS

All in one package with Radio, Antenna, Battery (KNB-82LCM Intrinsically Safe Battery) and Charger

NX-1200-ISCNBK	VHF (136-174MHz), 5W, 64 CH, Basic Model, NXDN/Analog
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Note: Can be used in Class I Gas Environment only

NX-1200NV/1300NU

VHF/UHF NXDN & FM Analog Portable Radios

NX-1200-ISCNBK2 VHF (136-174MHz), 5W, 260 CH, LCD & Standard Keypad, NXDN/Analog
Note: Can be used in Class I Gas Environment only

CSA US APPROVED MODELS, CON'T

NX-1300-ISCNBK UHF (450-520MHz), 5W, 64 CH, Basic Model, NXDN/Analog
Note: Can be used in Class I Gas Environment only

NX-1300-ISCNBK2 UHF (450-520MHz), 5W, 260 CH, LCD & Standard Keypad, NXDN/Analog
Note: Can be used in Class I Gas Environment only

NX-1300-ISCNBK4 UHF (400-470MHz), 5W, 64 CH, Basic Model, NXDN/Analog
Note: Can be used in Class I Gas Environment only

NX-1300-ISCNBK5 UHF (400-470MHz), 5W, 260 CH, LCD & Standard Keypad, NXDN/Analog
Note: Can be used in Class I Gas Environment only

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-41M VHF stubby antenna 148-162 MHz

KRA-41M2 VHF stubby antenna 162-174 MHz

KRA-41M3 VHF stubby antenna 136-150 MHz

KRA-42M UHF stubby antenna 440-490 MHz

KRA-42M2 UHF stubby antenna 470-520 MHz

KRA-42M3 UHF stubby antenna 403-430 MHz

KRA-22M VHF low profile antenna 148-162 MHz

KRA-22M2 VHF low profile antenna 162-174 MHz

KRA-22M3 VHF low profile antenna 136-150 MHz

KRA-23M UHF low profile antenna 450-490 MHz

KRA-23M2 UHF low profile antenna 470-520 MHz

KRA-23M3 UHF low profile antenna 403-430 MHz

BATTERIES AND CHARGERS

KNB-45LK 2000 mAh, Li-ion battery - requires KSC-35K/SK charger

KNB-69L 2550 mAh, Li-ion battery - requires KSC-35K/SK charger

KNB-82LCM CSA US Intrinsically Safe Battery Li-ion 1900mAh, battery only
[Intrinsically Safe Option]

KNB-29N 1500 mAh, NiMH battery - requires KSC-43K charger

KSC-35SK 110~220 volt Fast rate single unit charger for KNB-45L/69L

KSC-43K 110~220 volt Fast rate single unit charger for KNB-29N/45L/69L

KMB-28AK Six Unit Charger Adapter for the KSC-35SK chargers
(chargers not included)

Note: A supplied in-line AC-DC switching power supply with six DC plugs supply installed KSC-xx charger bases. This unit is lower profile and less weight than similar Kenwood six unit charger adapters.

KVC-22 110~220 volt Fast rate DC vehicular charger adapter for KSC-35SK charger
(charger not included)

CARRYING ACCESSORIES

KBH-10	Spring action belt clip
KBH-8DS	Leather swivel belt loop with portable D-Ring attachment
KLH-187	Nylon case for NX-1200/1300 srs

MICROPHONES & AUDIO ACCESSORIES

KMC-45D	MIL-SPEC, IP54/55 Speaker microphone (Built-in 2.5mm miniature earphone jack) Note: KMC-45 (Non D version) is not compatible with DMR (TDMA) operation. [Intrinsically Safe Option]
KMC-21A	Compact speaker microphone [Intrinsically Safe Option]
KEP-2	2.5mm earphone kit for KMC-17/45 Speaker Mic [Intrinsically Safe Option]
KHS-7C	Single muff headset w/boom mic no PTT Note: Operating & Storage temperature is -4°F to 122°F (-20°C to 50°C)
KHS-7AC	Lt. Wt Single muff headset w/boom mic & in-line PTT Note: Operating & Storage temperature is -4°F to 122°F (-20°C to 50°C)
KHS-8BL	Two-Wire palm mic w/earphone (black) [Intrinsically Safe Option]
KHS-9BL	Three-Wire lapel mic w/earphone (black) Note: Available for Analog and NXDN (FDMA) only. NOT compatible with DMR (TDMA) operations.
KHS-10DC-BH	Hvy-duty Behind-the-head Headset W/boom Mic Earcup-mounted PTT with NRR of 24dB [Intrinsically Safe Option]
KHS-10DC-OH	Hvy-duty Over-the-head Headset W/boom Mic Earcup-mounted PTT with NRR of 24dB [Intrinsically Safe Option]
KHS-22A	Behind-the-Head Headset with flexible boom mic and in-line PTT single ear receiver (low profile wire head band) [Intrinsically Safe Option]
KHS-26	Clip Mic w/earphone [Intrinsically Safe Option]
KHS-27A	D-Ring Ear Hanger w/PTT & Mic
KHS-31C	C-Ring Ear Hanger w/PTT & Mic

SERVICE RELATED ACCESSORIES

KPG-D6NK	License Key for KPG-D6NK Programming Software for NX-1000 series portable/mobile Note: Requires KPT-300LMC for authentication
KPG-22UM	USB Programming interface cable
E30-3410-05	2 pin Clone Cable

Contact Kenwood Parts for price and availability for listed parts

D32-0456-03	Channel stopper for NX-1000 series Basic(No Display) model
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INSTALLATION / TUNING CHARGES

L-5001	Factory Activation of Radio Feature Licenses (per Radio) Note: Must purchase Radio Feature Licenses separately. <u>KPT-300LMC's History Menu will not display the Radio Features activated by Factory.</u>
L-5075	NX-1000 Series Portables Programming (with basic TX/RX check)

NX-1200NV/1300NU (K3/K6)

VHF/UHF NXDN & FM Analog Portable Radios



NX-1000 series full keypad portables include:

- Li-ion Battery (KNB-84LM)
- 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

Note:

1. To meet IP grades and MIL, radio must be installed with the KNB-84LA and the 2-pin connector cap.

STANDARD

GENERAL FEATURES

- 5 W (136-174 MHz) Models
- 5 W (400-470 MHz) Models
- 5 W (450-520 MHz) Models
- NXDN & Analog Mode
- Optional DMR Mode Conversion
- AMBE+2™ VOCODER
- 260 CH-GID / 128 Zones
- Full Keypad Models w/ LCD
- 13-seg, 8-character LCD
- 7-color LED Indicator
- KENWOOD Audio Quality
 - Audio Equalizer: Flat, High, or Low
 - Auto Gain Control: On, High, or Low
 - Noise Suppressor
 - Microphone type selection
- Multiple Scan Functions
 - Dual Priority, Single, Zone, Multi, Scan
- On/Off Volume Knob
- 16-Position Mechanical Selector
- 2 Side PF Keys
- 1W Speaker Audio
- VOX
- Emergency Call Features
 - Lone Worker
 - Max/Min Volume Setting
 - Voice Announcement
 - Front Panel Programming Mode
 - Manual Dialing (Analog DTMF, Digital Status Messaging and Individual Calling)
- Flash Firmware Upgrading
- MIL-STD-810 C/D/E/F/G
- IEC 60529 - IP54/55/67 Water & Dust Intrusion

DIGITAL – NXDN® MODE

- NXDN® Conventional & Site Roaming
- NXDN® Type-D Trunking Option
- 6.25 & 12.5 kHz Channels
- Over-the-Air Alias
- Digital / Analog Mixed Mode
- Group / Individual Call
- Status, Short Data, Paging Call
- Remote Stun, Kill, Monitor, Check, & Control
- NXDN® Scrambler
- NXDN® ESN Validation (for Type-D System)
- Late Entry

DIGITAL – DMR MODE (Optional)

- DMR Tier 2 Conventional & Site Roaming
- DMR Auto Slot Select (DASS)
- 12.5 kHz Channels
- Digital / Analog Mixed Mode
- Call Interrupt
- Group / Individual Call
- Status, Short Data, Paging Call
- Remote Stun, Kill, Monitor, Check, & Control
- Over-the-Air Alias
- Late Entry
- ARC4 Encryption Option

ANALOG MODE

- Conventional Zones
- FleetSync®: PTT ID, Stun/Revive, Talk back, Selcall
- MDC-1200: PTT ID, Radio Inhibit/Unihit, Radio Check, Emergency
- QT / DQT, Two-Tone, DTMF
- Built-in Voice Inversion Scrambler
- Built-in Compander

OPTIONAL FEATURES

- NXDN Type-D Trunking License (**KWD-1202TDK**)
- DMR Conversion License (**KWD-1301CN**)
- DMR ARC4 Enhanced Encryption (**KWD-1500EE**) *Only applicable after DMR conversion
- Remote Control Command by Subscriber Units (**KWD-1501RC**)

Digital mode conversion & Type-D requires additional firmware loading after applying upgrade license. Please download latest firmware from MyTools website > Product > Firmware

RADIO

NX-1200NVK3	VHF (136-174MHz), 5W, 260 CH, LCD & Full Keypad, NXDN/Analog
NX-1300NUK3	UHF (450-520MHz), 5W, 260 CH, LCD & Full Keypad, NXDN/Analog
NX-1300NUK6	UHF (400-470MHz), 5W, 260 CH, LCD & Full Keypad, NXDN/Analog

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

ANTENNAS, CON'T

KRA-41M	VHF stubby antenna 148-162 MHz
KRA-41M2	VHF stubby antenna 162-174 MHz
KRA-41M3	VHF stubby antenna 136-150 MHz
KRA-42M	UHF stubby antenna 440-490 MHz
KRA-42M2	UHF stubby antenna 470-520 MHz
KRA-42M3	UHF stubby antenna 403-430 MHz
KRA-22M	VHF low profile antenna 148-162 MHz
KRA-22M2	VHF low profile antenna 162-174 MHz
KRA-22M3	VHF low profile antenna 136-150 MHz
KRA-23M	UHF low profile antenna 450-490 MHz
KRA-23M2	UHF low profile antenna 470-520 MHz
KRA-23M3	UHF low profile antenna 403-430 MHz

BATTERIES AND CHARGERS

KNB-45LK	2000 mAh, Li-ion battery - requires KSC-35K/SK charger
KNB-69L	2550 mAh, Li-ion battery - requires KSC-35K/SK charger
KNB-84LM	1900 mAh, Li-ion battery (IEC 60529 - IP67) - requires KSC-35K/SK charger
KNB-29N	1500 mAh, NiMH battery - requires KSC-43K charger
KSC-35SK	110~220 volt Fast rate single unit charger for KNB-45L/69L/84LM
KSC-43K	110~220 volt Fast rate single unit charger for KNB-29N/45L/69L/84LM
KMB-28AK	Six Unit Charger Adapter for the KSC-35SK chargers (chargers not included) Note: A supplied in-line AC-DC switching power supply with six DC plugs supply installed KSC-xx charger bases. This unit is lower profile and less weight than similar Kenwood six unit charger adapters.
KVC-22	110~220 volt Fast rate DC vehicular charger adapter for KSC-35SK charger (charger not included)

CARRYING ACCESSORIES

KBH-10	Spring action belt clip
KBH-8DS	Leather swivel belt loop with portable D-Ring attachment
KLH-187	Nylon case for NX-1200/1300 srs (non-DTMF)

MICROPHONES & AUDIO ACCESSORIES

KMC-45D	MIL-SPEC, IP54/55 Speaker microphone (Built-in 2.5mm miniature earphone jack) Note: KMC-45 (Non D version) is not compatible with DMR (TDMA) operation.
KMC-21A	Compact speaker microphone
KEP-2	2.5mm earphone kit for KMC-17/45 Speaker Mic
KHS-7C	Single muff headset w/boom mic no PTT Note: Operating & Storage temperature is -4°F to 122°F (-20°C to 50°C)
KHS-7AC	Lt. Wt Single muff headset w/boom mic & in-line PTT Note: Operating & Storage temperature is -4°F to 122°F (-20°C to 50°C)
KHS-8BL	Two-Wire palm mic w/earphone (black)
KHS-9BL	Three-Wire lapel mic w/earphone (black) Note: Available for Analog and NXDN (FDMA) only. NOT compatible with DMR (TDMA) operations.
KHS-10DC-BH	Hvy-duty Behind-the-head Headset W/boom Mic Earcup-mounted PTT with NRR of 24dB
KHS-10DC-OH	Hvy-duty Over-the-head Headset W/boom Mic Earcup-mounted PTT with NRR of 24dB
KHS-22A	Behind-the-Head Headset with flexible boom mic and in-line PTT single ear receiver (low profile wire head band)
KHS-26	Clip Mic w/earphone
KHS-27A	D-Ring Ear Hanger w/PTT & Mic
KHS-31C	C-Ring Ear Hanger w/PTT & Mic

SERVICE RELATED ACCESSORIES

KPG-D6NK	License Key for KPG-D6NK Programming Software for NX-1000 series portable/mobile Note: Requires KPT-300LMC for authentication
KPG-22UM	USB Programming interface cable
E30-3410-05	2 pin Clone Cable

Contact Kenwood Parts for price and availability for listed parts

D32-0456-03	Channel stopper for NX-1000 series Basic(No Display) model
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INSTALLATION / TUNING CHARGES

L-5001	Factory Activation of Radio Feature Licenses (per Radio) Note: Must purchase Radio Feature Licenses separately. <u>KPT-300LMC's History Menu will not display the Radio Features activated by Factory.</u>
L-5075	NX-1000 Series Portables Programming (with basic TX/RX check)



NX-1200DV/1300DU

VHF/UHF DMR & FM Analog Portable Radios

Table of Contents



All NX-1000 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
- Premium Warranty: 3 Years*

* All Accessories / options: 1 Year

Note:

1. To meet IP grades and MIL, the 2-pin connector cap or accessory must be installed.

STANDARD

GENERAL FEATURES

- 5 W (136-174 MHz) Models
- 5 W (400-470 MHz) Models
- 5 W (450-520 MHz) Models
- DMR & Analog Mode
- Optional NXDN Mode Conversion
- AMBE+2™ VOCODER
- 260 CH-GID / 128 Zones
- 64 CH-GID / 4 Zones (For Basic Models)
- Basic Models
- Standard Keypad Models (w/ LCD)
- 13-seg, 8-character LCD
- 7-color LED Indicator
- KENWOOD Audio Quality
 - Audio Equalizer: Flat, High, or Low
 - Auto Gain Control: On, High, or Low
 - Noise Suppressor
 - Microphone type selection
- Multiple Scan Functions
 - Dual Priority, Single, Zone, Multi, Scan
- On/Off Volume Knob
- 16-Position Mechanical Selector
- 2 Side PF Keys
- 1W Speaker Audio
- VOX
- Emergency Call Features
- Lone Worker
- Max/Min Volume Setting
- Voice Announcement
- Front Panel Programming Mode
- Flash Firmware Upgrading
- MIL-STD-810 C/D/E/F/G
- IP54/55 Water & Dust Intrusion
- Intrinsically Safe Option

DIGITAL – DMR MODE

- DMR Tier 2 Conventional & Site Roaming
- DMR Auto Slot Select (DASS)
- 12.5 kHz Channels
- Digital / Analog Mixed Mode
- Call Interrupt
- Group / Individual Call
- Status, Short Data, Paging Call
- Remote Stun, Kill, Monitor, Check, & Control
- Over-the-Air Alias
- Late Entry
- ARC4 Encryption Option

DIGITAL – NXDN® MODE (Optional)

- NXDN® Conventional & Site Roaming
- NXDN® Type-D Trunking Option
- 6.25 & 12.5 kHz Channels
- Over-the-Air Alias
- Digital / Analog Mixed Mode
- Group / Individual Call
- Status, Short Data, Paging Call
- Remote Stun, Kill, Monitor, Check, & Control
- NXDN® Scrambler
- NXDN® ESN Validation (for Type-D System)
- Late Entry

ANALOG MODE

- Conventional Zones
- FleetSync®: PTT ID, Stun/Revive, Talk back, Selcall
- MDC-1200: PTT ID, Radio Inhibit/Unihabit, Radio Check, Emergency
- QT / DQT
- Two-Tone
- DTMF
- Built-in Voice Inversion Scrambler (per channel)
- Built-in Compander (per channel)

OPTIONAL FEATURES

- NXDN Conversion License (**KWD-1201CD**)
- NXDN Type-D Trunking License (**KWD-1202TDK**) *Requires KWD-1201CD enabled
- DMR ARC4 Enhanced Encryption (**KWD-1500EE**)
- Remote Control Command by Subscriber Units (**KWD-1501RC**)

Digital mode conversion & Type-D requires additional firmware loading after applying upgrade license. Please download latest firmware from MyTools website > Product > Firmware

Approved for Class I, Div. 1, Group D and are also approved for non-Incendive use in Class I, Div. 2, Groups A, B, C, D hazardous locations.

RADIO

NX-1200DVBK	VHF (136-174MHz), 5W, 64 CH, Basic Model, DMR/Analog
NX-1200DVBK2	VHF (136-174MHz), 5W, 260 CH, LCD & Standard Keypad, DMR/Analog
NX-1300DUBK	UHF (450-520MHz), 5W, 64 CH, Basic Model, DMR/Analog
NX-1300DUBK2	UHF (450-520MHz), 5W, 260 CH, LCD & Standard Keypad, DMR/Analog
NX-1300DUBK4	UHF (400-470MHz), 5W, 64 CH, Basic Model, DMR/Analog
NX-1300DUBK5	UHF (400-470MHz), 5W, 260 CH, LCD & Standard Keypad, DMR/Analog



NX-1200DV/1300DU

VHF/UHF DMR & FM Analog Portable Radios

Table of Contents

CSA US APPROVED MODELS

All in one package with Radio, Antenna, Battery (KNB-82LCM Intrinsically Safe Battery) and Charger

NX-1200-ISCDBK	VHF (136-174MHz), 5W, 64 CH, Basic Model, DMR/Analog Note: Can be used in Class I Gas Environment only
NX-1200-ISCDBK2	VHF (136-174MHz), 5W, 260 CH, LCD & Standard Keypad, DMR/Analog Note: Can be used in Class I Gas Environment only
NX-1300-ISCDBK	UHF (450-520MHz), 5W, 64 CH, Basic Model, DMR/Analog Note: Can be used in Class I Gas Environment only
NX-1300-ISCDBK2	UHF (450-520MHz), 5W, 260 CH, LCD & Standard Keypad, DMR/Analog Note: Can be used in Class I Gas Environment only
NX-1300-ISCDBK4	UHF (400-470MHz), 5W, 64 CH, Basic Model, DMR/Analog Note: Can be used in Class I Gas Environment only
NX-1300-ISCDBK5	UHF (400-470MHz), 5W, 260 CH, LCD & Standard Keypad, DMR/Analog Note: Can be used in Class I Gas Environment only

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-41M	VHF stubby antenna 148-162 MHz
KRA-41M2	VHF stubby antenna 162-174 MHz
KRA-41M3	VHF stubby antenna 136-150 MHz
KRA-42M	UHF stubby antenna 440-490 MHz
KRA-42M2	UHF stubby antenna 470-520 MHz
KRA-42M3	UHF stubby antenna 403-430 MHz
KRA-22M	VHF low profile antenna 148-162 MHz
KRA-22M2	VHF low profile antenna 162-174 MHz
KRA-22M3	VHF low profile antenna 136-150 MHz
KRA-23M	UHF low profile antenna 450-490 MHz
KRA-23M2	UHF low profile antenna 470-520 MHz
KRA-23M3	UHF low profile antenna 403-430 MHz

BATTERIES AND CHARGERS

KNB-45LK	2000 mAh, Li-ion battery - requires KSC-35K/SK charger
KNB-69L	2550 mAh, Li-ion battery - requires KSC-35K/SK charger
KNB-82LCM	CSA US Intrinsically Safe Battery Li-ion 1900mAh, battery only [Intrinsically Safe Option]
KNB-29N	1500 mAh, NiMH battery - requires KSC-43K charger
KSC-35SK	110~220 volt Fast rate single unit charger for KNB-45L/69L
KSC-43K	110~220 volt Fast rate single unit charger for KNB-29N/45L/69L
KMB-28AK	Six Unit Charger Adapter for the KSC-35SK chargers (chargers not included) Note: A supplied in-line AC-DC switching power supply with six DC plugs supply installed KSC-xx charger bases. This unit is lower profile and less weight than similar Kenwood six unit charger adapters.
KVC-22	110~220 volt Fast rate DC vehicular charger adapter for KSC-35SK charger (charger not included)



NX-1200DV/1300DU

VHF/UHF DMR & FM Analog Portable Radios

Table of Contents

CARRYING ACCESSORIES

KBH-10	Spring action belt clip
KBH-8DS	Leather swivel belt loop with portable D-Ring attachment
KLH-187	Nylon case for NX-1200/1300 srs

MICROPHONES & AUDIO ACCESSORIES

KMC-45D	MIL-SPEC, IP54/55 Speaker microphone (Built-in 2.5mm miniature earphone jack) Note: KMC-45 (Non D version) is not compatible with DMR (TDMA) operation. [Intrinsically Safe Option]
KMC-21A	Compact speaker microphone [Intrinsically Safe Option]
KEP-2	2.5mm earphone kit for KMC-17/45 Speaker Mic [Intrinsically Safe Option]
KHS-7C	Single muff headset w/boom mic no PTT Note: Operating & Storage temperature is -4°F to 122°F (-20°C to 50°C)
KHS-7AC	Lt. Wt Single muff headset w/boom mic & in-line PTT Note: Operating & Storage temperature is -4°F to 122°F (-20°C to 50°C)
KHS-8BL	Two-Wire palm mic w/earphone (black) [Intrinsically Safe Option]
KHS-9BL	Three-Wire lapel mic w/earphone (black) Note: Available for Analog and NXDN (FDMA) only. NOT compatible with DMR (TDMA) operations.
KHS-10DC-BH	Hvy-duty Behind-the-head Headset W/boom Mic Earcup-mounted PTT with NRR of 24dB [Intrinsically Safe Option]
KHS-10DC-OH	Hvy-duty Over-the-head Headset W/boom Mic Earcup-mounted PTT with NRR of 24dB [Intrinsically Safe Option]
KHS-22A	Behind-the-Head Headset with flexible boom mic and in-line PTT single ear receiver (low profile wire head band) [Intrinsically Safe Option]
KHS-26	Clip Mic w/earphone [Intrinsically Safe Option]
KHS-27A	D-Ring Ear Hanger w/PTT & Mic
KHS-31C	C-Ring Ear Hanger w/PTT & Mic

SERVICE RELATED ACCESSORIES

KPG-D6NK	License Key for KPG-D6NK Programming Software for NX-1000 series portable/mobile Note: Requires KPT-300LMC for authentication
KPG-22UM	USB Programming interface cable
E30-3410-05	2 pin Clone Cable

Contact Kenwood Parts for price and availability for listed parts

D32-0456-03	Channel stopper for NX-1000 series Basic(No Display) model
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INSTALLATION / TUNING CHARGES

L-5001	Factory Activation of Radio Feature Licenses (per Radio) Note: Must purchase Radio Feature Licenses separately. <u>KPT-300LMC's History Menu will not display the Radio Features activated by Factory.</u>
L-5075	NX-1000 Series Portables Programming (with basic TX/RX check)



NX-1200DV/1300DU (K3/K6)

VHF/UHF DMR & FM Analog Portable Radios

Table of Contents



NX-1000 series full keypad portables include:

- Li-ion Battery (KNB-84LM)
- 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

Note:

1. To meet IP grades and MIL, radio must be installed with the KNB-84LA and the 2-pin connector cap.

STANDARD

■ GENERAL FEATURES

- 5 W (136-174 MHz) Models
- 5 W (400-470 MHz) Models
- 5 W (450-520 MHz) Models
- DMR & Analog Mode
- Optional NXDN Mode Conversion
- AMBE+2™ VOCODER
- 260 CH-GID / 128 Zones
- Full Keypad Models w/ LCD
- 13-seg, 8-character LCD
- 7-color LED Indicator
- KENWOOD Audio Quality
 - Audio Equalizer: Flat, High, or Low
 - Auto Gain Control: On, High, or Low
 - Noise Suppressor
- Microphone type selection
- Multiple Scan Functions
 - Dual Priority, Single, Zone, Multi, Scan
- On/Off Volume Knob
- 16-Position Mechanical Selector
- 2 Side PF Keys
- 1W Speaker Audio
- VOX
- Emergency Call Features
- Lone Worker
- Max/Min Volume Setting
- Voice Announcement
- Front Panel Programming Mode
- Manual Dialing
 - (Analog DTMF, Digital Status Messaging and Individual Calling)
- Flash Firmware Upgrading
- MIL-STD-810 C/D/E/F/G
- IEC 60529 - IP54/55/67 Water & Dust Intrusion

■ DIGITAL – DMR MODE

- DMR Tier 2 Conventional & Site Roaming
- DMR Auto Slot Select (DASS)
- 12.5 kHz Channels
- Digital / Analog Mixed Mode
- Call Interrupt
- Group / Individual Call
- Status, Short Data, Paging Call
- Remote Stun, Kill, Monitor, Check, & Control
- Over-the-Air Alias
- Late Entry
- ARC4 Encryption Option

■ DIGITAL – NXDN® MODE (Optional)

- NXDN® Conventional & Site Roaming
- NXDN® Type-D Trunking Option
- 6.25 & 12.5 kHz Channels
- Over-the-Air Alias
- Digital / Analog Mixed Mode
- Group / Individual Call
- Status, Short Data, Paging Call
- Remote Stun, Kill, Monitor, Check, & Control
- NXDN® Scrambler
- NXDN® ESN Validation (for Type-D System)
- Late Entry

■ ANALOG MODE

- Conventional Zones
- FleetSync®: PTT ID, Stun/Revive, Talk back, Selcall
- MDC-1200: PTT ID, Radio Inhibit/Unihabit, Radio Check, Emergency
- QT / DQT
- Two-Tone
- DTMF
- Built-in Voice Inversion Scrambler (per channel)
- Built-in Compander (per channel)

OPTIONAL FEATURES

- NXDN Conversion License (**KWD-1201CD**)
- NXDN Type-D Trunking License (**KWD-1202TDK**) *Requires KWD-1201CD enabled
- DMR ARC4 Enhanced Encryption (**KWD-1500EE**)
- Remote Control Command by Subscriber Units (**KWD-1501RC**)

Digital mode conversion & Type-D requires additional firmware loading after applying upgrade license. Please download latest firmware from MyTools website > Product > Firmware

RADIO

NX-1200DVK3	VHF (136-174MHz), 5W, 260 CH, Full Keypad Model, DMR/Analog
NX-1300DUK3	UHF (450-520MHz), 5W, 260 CH, Full Keypad Model, DMR/Analog
NX-1300DUK6	UHF (400-470MHz), 5W, 260 CH, Full Keypad Model, DMR/Analog

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



NX-1200DV/1300DU (K3/K6)

VHF/UHF DMR & FM Analog Portable Radios

Table of Contents

ANTENNAS, CON'T

KRA-41M	VHF stubby antenna 148-162 MHz
KRA-41M2	VHF stubby antenna 162-174 MHz
KRA-41M3	VHF stubby antenna 136-150 MHz
KRA-42M	UHF stubby antenna 440-490 MHz
KRA-42M2	UHF stubby antenna 470-520 MHz
KRA-42M3	UHF stubby antenna 403-430 MHz
KRA-22M	VHF low profile antenna 148-162 MHz
KRA-22M2	VHF low profile antenna 162-174 MHz
KRA-22M3	VHF low profile antenna 136-150 MHz
KRA-23M	UHF low profile antenna 450-490 MHz
KRA-23M2	UHF low profile antenna 470-520 MHz
KRA-23M3	UHF low profile antenna 403-430 MHz

BATTERIES AND CHARGERS

KNB-45LK	2000 mAh, Li-ion battery - requires KSC-35K/SK charger
KNB-69L	2550 mAh, Li-ion battery - requires KSC-35K/SK charger
KNB-84LM	1900 mAh, Li-ion battery (IEC 60529 - IP67) - requires KSC-35K/SK charger
KNB-29N	1500 mAh, NiMH battery - requires KSC-43K charger
KSC-35SK	110~220 volt Fast rate single unit charger for KNB-45L/69L/84LM
KSC-43K	110~220 volt Fast rate single unit charger for KNB-29N/45L/69L/84LM
KMB-28AK	Six Unit Charger Adapter for the KSC-35SK chargers (chargers not included) Note: A supplied in-line AC-DC switching power supply with six DC plugs supply installed KSC-xx charger bases. This unit is lower profile and less weight than similar Kenwood six unit charger adapters.
KVC-22	110~220 volt Fast rate DC vehicular charger adapter for KSC-35SK charger (charger not included)

CARRYING ACCESSORIES

KBH-10	Spring action belt clip
KBH-8DS	Leather swivel belt loop with portable D-Ring attachment
KLH-187	Nylon case for NX-1200/1300 srs (non-DTMF)

MICROPHONES & AUDIO ACCESSORIES

KMC-45D	MIL-SPEC, IP54/55 Speaker microphone (Built-in 2.5mm miniature earphone jack) Note: KMC-45 (Non D version) is not compatible with DMR (TDMA) operation.
KMC-21A	Compact speaker microphone
KEP-2	2.5mm earphone kit for KMC-17/45 Speaker Mic
KHS-7C	Single muff headset w/boom mic no PTT Note: Operating & Storage temperature is -4°F to 122°F (-20°C to 50°C)
KHS-7AC	Lt. Wt Single muff headset w/boom mic & in-line PTT Note: Operating & Storage temperature is -4°F to 122°F (-20°C to 50°C)
KHS-8BL	Two-Wire palm mic w/earphone (black)
KHS-9BL	Three-Wire lapel mic w/earphone (black) Note: Available for Analog and NXDN (FDMA) only. NOT compatible with DMR (TDMA) operations.
KHS-10DC-BH	Hvy-duty Behind-the-head Headset W/boom Mic Earcup-mounted PTT with NRR of 24dB
KHS-10DC-OH	Hvy-duty Over-the-head Headset W/boom Mic Earcup-mounted PTT with NRR of 24dB
KHS-22A	Behind-the-Head Headset with flexible boom mic and in-line PTT single ear receiver (low profile wire head band) Clip Mic w/earphone
KHS-26	



NX-1200DV/1300DU (K3/K6)

VHF/UHF DMR & FM Analog Portable Radios

Table of Contents

KHS-27A	D-Ring Ear Hanger w/PTT & Mic
KHS-31C	C-Ring Ear Hanger w/PTT & Mic

SERVICE RELATED ACCESSORIES

KPG-D6NK	License Key for KPG-D6NK Programming Software for NX-1000 series portable/mobile Note: Requires KPT-300LMC for authentication
KPG-22UM	USB Programming interface cable
E30-3410-05	2 pin Clone Cable

Contact Kenwood Parts for price and availability for listed parts

D32-0456-03	Channel stopper for NX-1000 series Basic(No Display) model
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INSTALLATION / TUNING CHARGES

L-5001	Factory Activation of Radio Feature Licenses (per Radio) Note: Must purchase Radio Feature Licenses separately. <u>KPT-300LMC's History Menu will not display the Radio Features activated by Factory.</u>
L-5075	NX-1000 Series Portables Programming (with basic TX/RX check)

NX-1200AV/1300AU

VHF/UHF Digital Upgradeable Portable Radios

Table of Contents



All NX-1000 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
- Premium Warranty: 3 Years*

* All Accessories / options: 1 Year

Note:

1. To meet IP grades and ML, the 2-pin connector cap or accessory must be installed.

STANDARD

■ GENERAL FEATURES

- 5 W (136-174 MHz) Models
- 5 W (400-470 MHz) Models
- 5 W (450-520 MHz) Models
- Analog Mode
- Optional NXDN Upgrade
- Optional DMR Upgrade
- AMBE+2™ VOCODER for optional digital modes
- 260 CH-GID / 128 Zones
- 64 CH-GID / 4 Zones (For Basic Models)
- Basic Models
- Standard Keypad Models w/ LCD
- 13-seg, 8-character LCD
- 7-color LED Indicator
- KENWOOD Audio Quality
 - Audio Equalizer: Flat, High, or Low
 - Auto Gain Control: On, High, or Low
 - Noise Suppressor
 - Microphone type selection
- Multiple Scan Functions
 - Dual Priority, Single, Zone, Multi, Scan
- On/Off Volume Knob
- 16-Position Mechanical Selector
- 2 Side PF Keys
- 1W Speaker Audio
- VOX
- Emergency Call Features
- Lone Worker
- Max/Min Volume Setting
- Voice Announcement
- Front Panel Programming Mode
- Flash Firmware Upgrading
- MIL-STD-810 C/D/E/F/G
- IP54/55 Water & Dust Intrusion

■ ANALOG MODE

- Conventional Zones
- FleetSync®: PTT ID, Stun/Revive, Talk back, Selcall
- MDC-1200: PTT ID, Radio Inhibit/Unihabit, Radio Check, Emergency
- QT / DQT
- Two-Tone
- DTMF
- Built-in Voice Inversion Scrambler (per channel)
- Built-in Compressor (per channel)

■ DIGITAL – NXDN® MODE (Optional)

- NXDN® Conventional & Site Roaming
- NXDN® Type-D Trunking Option
- 6.25 & 12.5 kHz Channels
- Over-the-Air Alias
- Digital / Analog Mixed Mode
- Group / Individual Call
- Status, Short Data, Paging Call
- Remote Stun, Kill, Monitor, Check, & Control
- NXDN® Scrambler
- NXDN® ESN Validation (for Type-D System)
- Late Entry

■ DIGITAL – DMR MODE (Optional)

- DMR Tier 2 Conventional & Site Roaming
- DMR Auto Slot Select (DASS)
- 12.5 kHz Channels
- Digital / Analog Mixed Mode
- Call Interrupt
- Group / Individual Call
- Status, Short Data, Paging Call
- Remote Stun, Kill, Monitor, Check, & Control
- Over-the-Air Alias
- Late Entry
- ARC4 Encryption Option

OPTIONAL FEATURES

- NXDN Conventional Upgrade License (**KWD-1200CAK**)
- NXDN Type-D Trunking License (**KWD-1202TDK**) *Requires KWD-1200CAK enabled
- DMR Tier 2 Conventional Upgrade License (**KWD-1300CAK**)
- DMR ARC4 Enhanced Encryption (**KWD-1500EE**) *Only applicable after DMR conversion
- Remote Control Command by Subscriber Units (**KWD-1501RC**)

Digital mode conversion & Type-D requires additional firmware loading after applying upgrade license. Please download latest firmware from MyTools website > Product > Firmware

RADIO

NX-1200AVBK	VHF (136-174MHz), 5W, 64 CH, Basic, Analog
NX-1200AVBK2	VHF (136-174MHz), 5W, 260 CH, LCD & Standard Keypad, Analog
NX-1300AUBK	UHF (450-520MHz), 5W, 64 CH, Basic, Analog
NX-1300AUBK2	UHF (450-520 MHz), 5W, 260 CH, LCD & Standard Keypad, Analog
NX-1300AUBK4	UHF (400-470MHz), 5W, 64 CH, Basic, Analog
NX-1300AUBK5	UHF (400-470 MHz), 5W, 260 CH, LCD & Standard Keypad, Analog

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

NX-1200AV/1300AU

VHF/UHF Digital Upgradeable Portable Radios

Table of Contents

KRA-27M3	UHF whip antenna 400-450 MHz
KRA-41M	VHF stubby antenna 148-162 MHz
KRA-41M2	VHF stubby antenna 162-174 MHz
KRA-41M3	VHF stubby antenna 136-150 MHz
KRA-42M	UHF stubby antenna 440-490 MHz
KRA-42M2	UHF stubby antenna 470-520 MHz
KRA-42M3	UHF stubby antenna 403-430 MHz
KRA-22M	VHF low profile antenna 148-162 MHz
KRA-22M2	VHF low profile antenna 162-174 MHz
KRA-22M3	VHF low profile antenna 136-150 MHz
KRA-23M	UHF low profile antenna 450-490 MHz
KRA-23M2	UHF low profile antenna 470-520 MHz
KRA-23M3	UHF low profile antenna 403-430 MHz

BATTERIES AND CHARGERS

KNB-45LK	2000 mAh, Li-ion battery - requires KSC-35K/SK charger
KNB-69L	2550 mAh, Li-ion battery - requires KSC-35K/SK charger
KNB-29N	1500 mAh, NiMH battery - requires KSC-43K charger
KSC-35SK	110~220 volt Fast rate single unit charger for KNB-45L/69L
KSC-43K	110~220 volt Fast rate single unit charger for KNB-29N/45L/69L
KMB-28AK	Six Unit Charger Adapter for the KSC-35SK chargers (chargers not included) Note: A supplied in-line AC-DC switching power supply with six DC plugs supply installed KSC-xx charger bases. This unit is lower profile and less weight than similar Kenwood six unit charger adapters.
KVC-22	110~220 volt Fast rate DC vehicular charger adapter for KSC-35SK charger (charger not included)

CARRYING ACCESSORIES

KBH-10	Spring action belt clip
KBH-8DS	Leather swivel belt loop with portable D-Ring attachment
KLH-187	Nylon case for NX-1200/1300 srs

MICROPHONES & AUDIO ACCESSORIES

KMC-45D	MIL-SPEC, IP54/55 Speaker microphone (Built-in 2.5mm miniature earphone jack)
KMC-21A	Compact speaker microphone
KEP-2	2.5mm earphone kit for KMC-17/45 Speaker Mic
KHS-7C	Single muff headset w/boom mic no PTT Note: Operating & Storage temperature is -4°F to 122°F (-20°C to 50°C)
KHS-7AC	Lt. Wt Single muff headset w/boom mic & in-line PTT Note: Operating & Storage temperature is -4°F to 122°F (-20°C to 50°C)
KHS-8BL	Two-Wire palm mic w/earphone (black)
KHS-9BL	Three-Wire lapel mic w/earphone (black) Note: Available for Analog and NXDN (FDMA) only. NOT compatible with DMR (TDMA) operations.
KHS-10DC-BH	Hvy-duty Behind-the-head Headset W/boom Mic Earcup-mounted PTT with NRR of 24dB
KHS-10DC-OH	Hvy-duty Over-the-head Headset W/boom Mic Earcup-mounted PTT with NRR of 24dB
KHS-22A	Behind-the-Head Headset with flexible boom mic and in-line PTT single ear receiver (low profile wire head band)
KHS-26	Clip Mic w/earphone
KHS-27A	D-Ring Ear Hanger w/PTT & Mic
KHS-31C	C-Ring Ear Hanger w/PTT & Mic

NX-1200AV/1300AU

VHF/UHF Digital Upgradeable Portable Radios

Table of Contents

SERVICE RELATED ACCESSORIES

KPG-D6NK	License Key for KPG-D6NK Programming Software for NX-1000 series portable/mobile Note: Requires KPT-300LMC for authentication
KPG-22UM	USB Programming interface cable
E30-3410-05	2 pin Clone Cable
<i>Contact Kenwood Parts for price and availability for listed parts</i>	
D32-0456-03	Channel stopper for NX-1000 series Basic(No Display) model

INSTALLATION / TUNING CHARGES

L-5001	Factory Activation of Radio Feature Licenses (per Radio) Note: Must purchase Radio Feature Licenses separately. <u>KPT-300LMC's History Menu will not display the Radio Features activated by Factory.</u>
L-5075	NX-1000 Series Portables Programming (with basic TX/RX check)

NX-1202AV/1302AU

VHF/UHF Digital Upgradeable Portable Radios

Table of Contents



All NX-1000 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
- Premium Warranty: 3 Years*

* All Accessories / options: 1 Year

STANDARD

■ GENERAL FEATURES

- 2 W (136-174 MHz) Models
- 2 W (450-520 MHz) Models
- Analog Mode
- Optional NXDN Upgrade
- Optional DMR Upgrade
- AMBE+2™ VOCODER for optional digital modes
- 64 CH-GID / 4 Zones
- Basic Models
- 7-color LED Indicator
- KENWOOD Audio Quality
 - Audio Equalizer: Flat, High, or Low
 - Auto Gain Control: On, High, or Low
 - Noise Suppressor
 - Microphone type selection
- Multiple Scan Functions
 - Dual Priority, Single, Zone, Multi, Scan
- On/Off Volume Knob
- 16-Position Mechanical Selector
- 2 Side PF Keys
- 1W Speaker Audio
- VOX
- Emergency Call Features
- Lone Worker
- Max/Min Volume Setting
- Voice Announcement
- Flash Firmware Upgrading
- MIL-STD-810 C/D/E/F/G
- IP54/55 Water & Dust Intrusion

■ ANALOG MODE

- Conventional Zones
- FleetSync®: PTT ID, Stun/Revive, Talk back, Selcall
- MDC-1200: PTT ID, Radio Inhibit/Unihabit, Radio Check, Emergency
- QT / DQT
- Two-Tone
- DTMF
- Built-in Voice Inversion Scrambler (per channel)
- Built-in Compander (per channel)

■ DIGITAL – NXDN® MODE (Optional)

- NXDN® Conventional & Site Roaming
- NXDN® Type-D Trunking Option
- 6.25 & 12.5 kHz Channels
- Over-the-Air Alias
- Digital / Analog Mixed Mode
- Group / Individual Call
- Status, Short Data, Paging Call
- Remote Stun, Kill, Monitor, Check, & Control
- NXDN® Scrambler
- NXDN® ESN Validation (for Type-D System)
- Late Entry

■ DIGITAL – DMR MODE (Optional)

- DMR Tier 2 Conventional & Site Roaming
- DMR Auto Slot Select (DASS)
- 12.5 kHz Channels
- Digital / Analog Mixed Mode
- Call Interrupt
- Group / Individual Call
- Status, Short Data, Paging Call
- Remote Stun, Kill, Monitor, Check, & Control
- Over-the-Air Alias (TX only / No display)
- Late Entry
- ARC4 Encryption Option

OPTIONAL FEATURES

- NXDN Conventional Upgrade License (**KWD-1200CAK**)
- NXDN Type-D Trunking License (**KWD-1202TDK**) *Requires KWD-1200CAK enabled
- DMR Tier 2 Conventional Upgrade License (**KWD-1300CAK**)
- DMR ARC4 Enhanced Encryption (**KWD-1500EE**) *Only applicable after DMR conversion
- Remote Control Command by Subscriber Units (**KWD-1501RC**)

Digital mode conversion & Type-D requires additional firmware loading after applying upgrade license. Please download latest firmware from MyTools website > Product > Firmware

RADIO

NX-1202AVBK	VHF (136-174MHz), 2W, 64 CH, Basic Model, Analog
NX-1302AUBK	UHF (450-520MHz), 2W, 64 CH, Basic Model, Analog

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-41M	VHF stubby antenna 148-162 MHz
KRA-41M2	VHF stubby antenna 162-174 MHz
KRA-41M3	VHF stubby antenna 136-150 MHz
KRA-42M	UHF stubby antenna 440-490 MHz

NX-1202AV/1302AU

VHF/UHF Digital Upgradeable Portable Radios

Table of Contents

KRA-42M2	UHF stubby antenna 470-520 MHz
KRA-22M	VHF low profile antenna 148-162 MHz
KRA-22M2	VHF low profile antenna 162-174 MHz
KRA-22M3	VHF low profile antenna 136-150 MHz
KRA-23M	UHF low profile antenna 450-490 MHz
KRA-23M2	UHF low profile antenna 470-520 MHz

BATTERIES AND CHARGERS

KNB-45LK	2000 mAh, Li-ion battery - requires KSC-35K/SK charger
KNB-69L	2550 mAh, Li-ion battery - requires KSC-35K/SK charger
KNB-29N	1500 mAh, NiMH battery - requires KSC-43K charger
KSC-35SK	110~220 volt Fast rate single unit charger for KNB-45L/69L
KSC-43K	110~220 volt Fast rate single unit charger for KNB-29N/45L/69L
KMB-28AK	Six Unit Charger Adapter for the KSC-35SK chargers (chargers not included) Note: A supplied in-line AC-DC switching power supply with six DC plugs supply installed KSC-xx charger bases. This unit is lower profile and less weight than similar Kenwood six unit charger adapters.
KVC-22	110~220 volt Fast rate DC vehicular charger adapter for KSC-35SK charger (charger not included)

CARRYING ACCESSORIES

KBH-10	Spring action belt clip
KBH-8DS	Leather swivel belt loop with portable D-Ring attachment
KLH-187	Nylon case for NX-1200/1300 srs

MICROPHONES & AUDIO ACCESSORIES

KMC-45D	MIL-SPEC, IP54/55 Speaker microphone (Built-in 2.5mm miniature earphone jack)
KMC-21A	Compact speaker microphone
KEP-2	2.5mm earphone kit for KMC-17/45 Speaker Mic
KHS-7C	Single muff headset w/boom mic no PTT Note: Operating & Storage temperature is -4°F to 122°F (-20°C to 50°C)
KHS-7AC	Lt. Wt Single muff headset w/boom mic & in-line PTT Note: Operating & Storage temperature is -4°F to 122°F (-20°C to 50°C)
KHS-8BL	Two-Wire palm mic w/earphone (black)
KHS-9BL	Three-Wire lapel mic w/earphone (black) Note: Available for Analog and NXDN (FDMA) only. NOT compatible with DMR (TDMA) operations.
KHS-10DC-BH	Hvy-duty Behind-the-head Headset W/boom Mic Earcup-mounted PTT with NRR of 24dB
KHS-10DC-OH	Hvy-duty Over-the-head Headset W/boom Mic Earcup-mounted PTT with NRR of 24dB
KHS-22A	Behind-the-Head Headset with flexible boom mic and in-line PTT single ear receiver (low profile wire head band)
KHS-26	Clip Mic w/earphone
KHS-27A	D-Ring Ear Hanger w/PTT & Mic
KHS-31C	C-Ring Ear Hanger w/PTT & Mic

NX-1202AV/1302AU

VHF/UHF Digital Upgradeable Portable Radios

Table of Contents

SERVICE RELATED ACCESSORIES

KPG-D6NK	License Key for KPG-D6NK Programming Software for NX-1000 series portable/mobile Note: Requires KPT-300LMC for authentication
KPG-22UM	USB Programming interface cable
E30-3410-05	2 pin Clone Cable
<i>Contact Kenwood Parts for price and availability for listed parts</i>	
D32-0456-03	Channel stopper for NX-1000 series Basic(No Display) model

INSTALLATION / TUNING CHARGES

L-5001	Factory Activation of Radio Feature Licenses (per Radio) Note: Must purchase Radio Feature Licenses separately. <u>KPT-300LMC's History Menu will not display the Radio Features activated by Factory.</u>
L-5075	NX-1000 Series Portables Programming (with basic TX/RX check)

NX-3210R - for Class I, II, III Railroads

VHF Digital & FM Analog Portables (w/ Built-In GPS)



NX-3210R series portable include:

- Belt Clip (KBH-11)
- Universal Connector Cap
- Channel Stopper
- 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
- Mixed Protocol: NXDN Conventional, FM Analog and NXDN Type-C & Gen2 Trunking
- 512 CH-GID (1000 CH option) / 128 Zones
- Cross Keys and 16-Key Keypad Model
- 4-line basic frame
- 14 Character and 5-line text message frame
- Display in 3 languages (English/Spanish/French)
- 12-/24-hr clock and date display
- 7-color Light Bar
- Built-in Bluetooth® 4.0
- Transmit/Busy/Call Alert/Warn LED
- On/Off Volume Knob
- 2 Side PF Keys
- Emergency/AUX Key
- 1W Speaker Audio at 5% distortion
- GPS Data with built-in GPS
- KPG-D9R Windows® FPU
- MIL-STD-810 C/D/E/F/G/H
- IP54/55 Water & Dust Intrusion
- PC Serial Interface
- SDM Manual Input
- Transparent Data Mode
- Voice Guide/Voice & GPS Data storage with internal memory
- RSSI information is included in GPS Data (Conventional mode)
- AAR functions and channels
- Feedback Suppression

DIGITAL – GENERAL

- NXDN® Digital Air Interface
- AMBE+2™ VOCODER
- 6.25 & 12.5 kHz Channels
- Over-the-Air Alias
- Over-the-Air Programming (included in AAR mode)
- Paging Call
- Emergency Call
- All Group Call
- Status Messaging
- Remote Stun/Kill
- Remote Check
- Short & Long Data Messages
- GPS Data with Voice
- NXDN® Scrambler Included
- AES & DES Encryption (W/ KPG-DE1/AE1 and

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
- 4 Priority Monitor ID's
- Remote Group Add
- Fail Soft Mode

DIGITAL - MULTI-SITE IP NETWORKS

- 60,000 GIDs / UIDs
- Wide Area Group Call
- Auto Roaming Registration
- Group Registration

MULTI-SYSTEM COMPATIBLE

- 24-trunked Networks
- UID List 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

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

NX-3210RK3 136-174MHz 5/4/1W, 14 characters Alphanumeric LCD, Cross Keys, Large Full Keypad
Note: Copy of customer PO is required upon PO placement for this radio

PACKAGE

NX-3210RK3-LKP 136-174MHz 5/4/1W, 14 characters Alphanumeric LCD, Cross Keys, Large Full Keypad
 VHF Li-Ion Battery Package (NX-3210RK3 + KNB-L2M + KSC-52BK + KRA-26M)

NX-3210R - for Class I, II, III Railroads

VHF Digital & FM Analog Portables (w/ Built-In GPS)

ANTENNAS		DEALER
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-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-41M	VHF stubby antenna 148-162 MHz	
KRA-41M2	VHF stubby antenna 162-174 MHz	
KRA-41M3	VHF stubby antenna 136-150 MHz	
KRA-25	High gain VHF helically loaded whip antenna 148-162 MHz	
KRA-28	Broad-band VHF helically loaded whip antenna 140-170 MHz	
BATTERIES AND CHARGERS		
KNB-L1M	Li-ion 2000mAh (Compact Slim)	
KNB-L2M	Li-ion 2600mAh (Standard)	
KNB-L11M	Li-ion 3900mAh (High Capacity) Note: The KNB-L11 battery requires NX-5x00 firmware 5.12 or newer	
KNB-L12M	Laminated Li-ion 3000mAh (High Capacity)	
KNB-L13M	Laminated Li-ion 4000mAh (High Capacity)	
KSC-52BK	Rapid rate single unit charger for KNB-L1/KNB-L2/KNB-L3/KNB-LS5/KNB-LS7/KNB-33L/PB-45L/KNB-47L/KNB-48L/KNB-72LC/KNB-70LEX/KNB-41NC/KNB-50NC/KNB-54N	
KSC-52AK	Rapid rate single unit charger for the new KNB-L11/L12/L13 high capacity battery	
6 Unit Chargers		
KSC-526K	Rapid rate 6-unit charger CEC Compliant Note: Requires charging pocket KSC-52PBW and/or KSC-52PCW, and/or KSC-52PAW	
KSC-52PBW	Charging pocket for KSC-526K and/or to convert the pocket style of a KSC-52 Single unit charger compatible with the KNB-L1, L2, L3, LS5 and LS7 batteries, and NX-205/305 and NX-210 series	
KSC-52PAW	Charging pocket for KSC-526K and/or to convert the pocket style of a KSC-52 Single unit charger compatible with the KNB-L11/L12/L13 battery	
KMB-526K	Wall Mount Bracket for KSC-526K	
Vehicle Chargers/Adapters		
KVC-52	Rapid rate DC vehicular charger adapter for the KSC-52BK/52AK chargers (chargers not included; includes steel mounting base & locking bracket, and DC cable with a fused cigarette lighter plug)	
KVC-23A	Rapid rate DC vehicular charger for TK-5x10/5x20, NX-5x00/x00/x10/x20/3210, TK-x180, TK-x170, & TK-x360 portables with Lithium Ion /Lithium Polymer/NiMH packs only Note: Compatible with KNB-L11 battery	
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-154K2	Heavy duty leather carrying case for NX-3210/NX-210 Note: No belt loop flap is included. Must order KLH-6SW for belt loop.	

NX-3210R - for Class I, II, III Railroads

VHF Digital & FM Analog Portables (w/ Built-In GPS)

MICROPHONES & AUDIO ACCESSORIES

DEALER

KMC-70M	MIL-SPEC, IP54/55/67/68* Speaker Mic with Active Noise Reduction Note: IP68 is available only when used with NX-5000 series portable
KMC-72W	MIL-SPEC, IP54/55/67 Noise-cancelling Speaker Mic Note: IP67 is for the microphone
KEP-1	3.5mm earphone kit for KMC-41/42W/54W/70M/72W Speaker Mics
KHS-11BL	2-wire palm mic w/earphone, universal connector (Black)
KHS-12BL	3-wire mini lapel mic w/earphone, universal connector (Black) Note: Not compatible with TDMA operations
KHS-14C	Lt. Wt. Single muff headset w/boom mic & In-line PTT Note: Operating & Storage temperature is -4°F to 122°F (-20°C to 50°C)
KHS-15DC-BH	Hvy-duty behind-the-headset w/boom mic & earcup-mounted PTT with NRR of 24dB [Intrinsically Safe Option]
KHS-15D-OH	Hvy-duty noise reduction over-the-headset w/noise cancelling boom mic & PTT

SOFTWARE & USB OPTIONS

KPG-D9RK	License Key for KPG-D9RK Programming Software for NX-3210R Portable Note: Simplified License only - must have a customer string or submit L-5098 request form
KPG-AE1K	License Key for AES/DES Encryption Software Key Loader for KWD-3503AE Note: - Requires KPT-300LMC for authentication - KPG-AE1 is a U.S. DOC/BIS Export Controlled Item (ECCN 5D002A).
KPG-DE1K	License Key for DES Encryption Software Key Loader for KWD-3505DE Note: - Requires KPT-300LMC for authentication
KPG-36XM	Full Speed USB Programming interface cable

INSTALLATION / TUNING CHARGES

L-5001	Factory Activation of Radio Feature Licenses (per Radio) Note: Must purchase Radio Feature Licenses separately. <u>KPT-300LMC's History Menu will not display the Radio Features activated by Factory.</u>
L-5002	NX-3210R Programming (with basic TX/RX check) Must submit <u>NX-x000 Series Programming Order Form</u> upon placing order for any programming services.
L-5054	Installation AES/DES for NX-3210R Portable

ProTalk[®] **PKT-300** Table of Contents
UHF BRS Portable Radios



- Includes:**
- Belt Clip Holster
 - Drop-in charger
 - Fixed Antenna
 - 2,200 mAh Li-ion Battery
 - Instruction Manual
 - Standard Warranty: 2 Years*

* All Accessories / options: 1 Year

GENERAL FEATURES

- UHF 2.0 Watt or 500 mW Transmit Power
- Small (1.97" W x 1.06" D x 3.86" H) & Lightweight (4.87 oz)
- Li-Ion battery with up to 18 Hours Talk Time (5/5/90 duty cycle, battery saver on)
- 6 Channel Operation (factory pre-set)
- 99 User-Programmable Memory Bank Frequencies
- Channel Scan
- Wireless Cloning Mode (Not clonable with PKT-23K and TK-3230DXK)
- Key Lock/Super Lock
- User Programmable QT (45) and DQT (174) Signaling
- Selectable Power On Tone (3 options)
- 10 Call Alert Tones
- Voice Scrambler (Privacy function)
- Speaker Mute Function
- Comander
- SelCall for Caller ID (Available in future)
- LCD Battery Meter & Low Battery Alert
- VOX (Voice-activated transmit)
- Time Out Timer
- 2 Color Transmit / Busy LED/ Backlit LCD Display
- 3 Function Keys: Menu, Call, Monitor
- 2-PIN Audio Accessory Jack
- Antenna (fixed non-removable)
- Passes IP52 & 8 Rugged Mil-Spec 810 C, D, E, F, G & H Standards
- FCC License required
- 2 Year Radio Warranty

Due to spurious signal (birdie), the following frequency (and $\pm 10\text{kHz}$ ranges) are not allowed:

- 468.000MHz $\pm 10\text{kHz}$ (467.99 ~ 468.01MHz)

RADIO

PKT-300K	450-470 MHz UHF 2.0W or 500 mW, 6 Ch. Compact Portable Transceiver
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BATTERY AND CHARGER

KNB-81LW	Li-Ion battery (Same as supplied with PKT-300K)
KSC-50K	Li-Ion Rapid rate charger (Same as supplied with PKT-300K)
KSC-44MLKS	AC Adapter (For cradle multi unit use, up to 6 units)
KSC-506K	Rapid rate 6-Unit Charger for KNB-81L

CARRYING ACCESSORY

KBH-23M	Belt Clip Holster (Same as supplied with PKT-300K)
KBH-21W	Belt Clip

HEADSETS, MICROPHONE AND SPEAKERS

KMC-21A	Compact speaker microphone
KMC-45D	Speaker microphone (Built-in 2.5mm miniature earphone jack)
KHS-22A	Behind-the-Head Headset with flexible boom mic and in-line PTT single ear receiver; low profile wire head band; VOX-ready
KHS-26	Clip Mic w/earphone
KHS-27A	D-Ring Ear Hanger w/PTT & Mic
KHS-31C	C-Ring Ear Hanger w/PTT & Mic
KEP-2	2.5mm earphone kit for KMC-45 Speaker Mic (Black only)
KHS-8BL	Two-Wire palm mic w/earphone (black)
KHS-9BL	Three-Wire lapel mic w/earphone (black)
KHS-7C	Single muff headset w/boom mic No PTT (black) Note: Operating & Storage temperature is -4°F to 122°F (-20°C to 50°C)
KHS-7AC	Lt. Wt Single muff headset w/boom mic & in-line PTT (black) Note: Operating & Storage temperature is -4°F to 122°F (-20°C to 50°C)

PROGRAMMING SOFTWARE/CABLE

KPG-208DK	Windows® 10 & 11, Programming software for PKT-300
KPG-22UM	USB to 2-Pin Programming interface cable



NX-5700/5800/5900

Table of Contents

VHF/UHF/700/800MHz Digital & FM Analog Mobile Radios



NX-5000(K-version*) Mobiles include:

- Basic Control Head (KCH-19M)
- Standard Microphone (KMC-65M)
- Mounting Bracket (KMB-33M)
- DC Cable
- Blade Fuse
- User Guide
- Premium Warranty: 3 Years

All Accessories / options: 1 Year

*BK-version comes with a RF deck only
 1. Multi Digital Protocol can be used for two(2) of the three(3) Digital Protocols set by programming software. P25/DMR Digital Protocols are options.

2. Requires **KCT-91MRS** DB25 Cable between Decks.

Multi-Deck Compatible Models & Modes

Models	Bands	Power	Operable Modes
NX-5600H	Lowband VHF (39-50)	110 Watts	Analog/NXDN
NX-5700	VHF (136-174)	50 Watts	Analog/NXDN/DMR/P25
NX-5700H	VHF (136-174)	110 Watts	Analog/NXDN/P25
NX-5800H	UHF (380-470, 450-520)	100 Watts	Analog/NXDN/P25
NX-5800	UHF (380-470, 450-520)	50 Watts	Analog/NXDN/DMR/P25
NX-5900	7/800	35 Watts	Analog/NXDN/DMR/P25

STANDARD

GENERAL FEATURES

- 50 W (136-174 MHz) Models
- 45 W (380-470, 450-520 MHz) Models
- 35 W (700/800 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
- Multi Digital Protocol ¹
- Emergency Call Features
- Built-in GPS Receiver
- Built-in Bluetooth® Module
- Built-in 56-bit DES Encryption (4 keys programmable by KPG-D1(N)K)
- Mobile Relay Station² (DMR Mode³)
- Cross Band Repeater (Only)
- Active Noise Reduction (ANR)
- KPG-D1N Windows® FPU
- Flash Firmware Upgrading
- MIL-STD-810 C/D/E/F/G
- IP54/55

DIGITAL – P25 MODE

- P25 Conventional Option
- P25 Phase 1 Trunking Option
- P25 Phase 2 Trunking Option
- Conv/Trunking OTAR Option
- Conventional Voting Scan Option
- Packet Data Option for P25 OTAR, GPS & OTAP
- Text Data
- Radio Authentication
- Tone Paging

DIGITAL – NXDN® MODE

- NXDN® Conventional
- NXDN® TYPE-C (Gen1/Gen2) Trunking (except 700MHz)
- 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
- Digital Two-Tone
- Status Messaging
- Remote Stun/Kill/Check
- Short & Long Data Messages
- GPS Location
- NXDN® Scrambler

DIGITAL – DMR MODE

- DMR Tier 2 Conventional Option
- DMR Tier 3 Trunking Option
- DMR Auto Slot Select (DASS)
- AMBE+2™ VOCODER
- 12.5 kHz Channels
- Over-the-Air Alias
- Over-the-Air Programming
- Call Interrupt (Direct & Repeater Mode)
- Paging Call
- Emergency Call
- All Group Call
- Late Entry
- Status Messaging
- Remote Control by Subscriber Units
- ARC4 Encryption Optional
- Site Roaming

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 FEATURES & CONFIGURATIONS

GENERAL FEATURES

- 4000 Channel (KWD-5000CH)
- Front Panel Programming (KWD-5001FP)
- microSD/microSDHC Memory Card Slot (KWD-5002SD)
- Built-in Bluetooth® Module for Data (KWD-5003BT)
- Remote Control by Subscriber Units (KWD-5007RC)
- 256-bit AES Encryption (KWD-AE30K/31K Encryption Module required)

DIGITAL – P25 MODE

- Conventional Features (KWD-5100CV)
- Phase 1 Trunking Features (KWD-5100CV & 5101TR)
- Phase 2 Trunking Features (KWD-5100CV & 5101TR & 5102TR)
- Conventional OTAR (KWD-5103RK)
- Trunking OTAR (KWD-5103RK & 5106DT)
- Conventional Voting Scan (KWD-5105VT)
- Packet Data required for Trunked OTAR/GPS/OTAP (KWD-5106DT)
- P25 ARC4 Encryption (KWD-5107EE)
- Link Layer Authentication (KWD-5100CV & KWD-5101TR & KWD-AE3x Encryption Board Required)

DIGITAL – DMR MODE

- DMR Tier 2 Conventional and Trunking 2.5 Features (KWD-5300CV)
- DMR Tier 3 Trunking Features (KWD-5300CV & KWD-5301TR)

MOUNTING & REMOTE CONFIGURATIONS

(See NX-5000 Accessory page for details)

- KCH-20R Featured Control Head
- KCH-21R Handheld Control Head
- Single Remote Control Head (KRK Kit & KCT-71 or KCT-77 Cable required)
- Dual Remote Control Heads (KCH-19/20R/21R & KRK Kit & KCT-71 or KCT-77 Cables required)
- Multiple RF Decks (KRK Kit & KCT-71 or KCT-77 Control Cable + KWD-5004MR License Key Activation required*)



NEXEDGE®
P25 DMR

NX-5700/5800/5900
 VHF/UHF/700/800MHz Digital & FM Analog Mobile Radios

Table of Contents

RADIO

NX-5700K	VHF (136-174MHz), 50 Watts NXDN Conventional / TYPE-C (Gen1/Gen2) Trunking
NX-5800K	UHF (450-520MHz), 45 Watts NXDN Conventional / TYPE-C (Gen1/Gen2) Trunking
NX-5800K2	UHF (380-470MHz), 45 Watts NXDN Conventional / TYPE-C (Gen1/Gen2) Trunking
NX-5900K	700 / 800 MHz, 30/35 Watts NXDN Conventional / 800MHz TYPE-C (Gen1/Gen2) Trunking

RF Deck Only

MUST purchase necessary accessories separately

NX-5700BK	VHF (50W, 136-174 MHz) <u>RF Deck Only</u>
NX-5800BK	UHF (45W, 450-520 MHz) <u>RF Deck Only</u>
NX-5800BK2	UHF (45W, 380-470 MHz) <u>RF Deck Only</u>
NX-5900BK	35W, 700/800 MHz <u>RF Deck Only</u>

Other Accessories, Software, and Services

Refer to NX-5000 series mobile accessory pages



NX-5700H/5800H

VHF/UHF Digital & FM Analog Mobile Radio

Table of Contents



- NX-5000HBF Mobiles include:**
- High Power Radio
 - User Guide
 - Premium Warranty: 3 Years

All Accessories / options: 1 Year

STANDARD

■ GENERAL FEATURES

- 110 W (136 -174 MHz) Model
- 100 W (380 - 450, 450 - 520 MHz) Model
- 1024 CH-GID / 128 Zones
- Multi-Digital Operation in NXDN/P25
- Support NX-5000 Remote Control Head Options
- Multi-RF Deck Configuration Available (Lowband, VHF, 380-470, 450-520, 7&800)
- Built-in Micro USB A-B Interface
- Horn Alert / Public Address
- Built-in GPS Receiver
- Built-in Bluetooth® Module
- Built-in 56-bit DES Encryption (4 keys programmable by KPG-D1N)
- Optional 256-bit AES Encryption
- 12 Watt Audio Output
- DB-25 & Molex 9-pin Accessory Connector
- Active Noise Reduction (ANR)
- KPG-D1N Windows® FPU
- Flash Firmware Upgrading
- MIL-STD-810 C/D/E/F/G

■ DIGITAL – P25 MODE

- P25 Conventional
- P25 Phase 1 Trunking Option
- P25 Phase 2 Trunking Option
- Conv/Trunking OTAR Option
- Packet Data Option for P25 OTAR, GPS & OTAP
- Conventional Voting Scan Option
- Text Data
- Radio Authentication
- Tone Paging
- ARC4 Encryption Option

■ DIGITAL – NXDN® MODE

- NXDN® Conventional
- NXDN® TYPE-C (Gen1/Gen2) Trunking Option
- 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
- Digital Two-Tone
- Status Messaging
- Remote Stun/Kill/Check
- Short & Long Data Messages
- GPS Location
- NXDN® Scrambler

■ ANALOG MODE

- Conventional 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 FEATURES & CONFIGURATIONS

■ GENERAL FEATURES

- 4000 Channel ([KWD-5000CH](#))
- Front Panel Programming ([KWD-5001FP](#))
- microSD/microSDHC Memory Card Slot ([KWD-5002SD](#))
- Built-in Bluetooth® Module for Data ([KWD-5003BT](#))
- Remote Control by Subscriber Units ([KWD-5007RC](#))
- 256-bit AES Encryption ([KWD-AE30K/31K](#) Encryption Module required)

■ DIGITAL – P25 MODE

- Conventional Features ([Factory Installed](#))
- Phase 1 Trunking Features ([KWD-5101TR](#))
- Phase 2 Trunking Features ([KWD-5101TR](#) & [5102TR](#))
- Conventional OTAR ([KWD-5103RK](#))
- Trunking OTAR ([KWD-5103RK](#) & [5106DT](#))
- Conventional Voting Scan ([KWD-5105VT](#))
- Packet Data required for Trunked OTAR/GPS/OTAP ([KWD-5106DT](#))
- P25 ARC4 Encryption ([KWD-5107EE](#))
- Link Layer Authentication ([KWD-5101TR](#) & [KWD-AE3x](#) Encryption Board Required)
- One active key per system, up to 32 systems

■ DIGITAL – NXDN MODE

- Conventional Features ([Factory Installed](#))
- Type-C Trunking Features ([KWD-5201TR](#))

■ Multi-Deck Compatible Models & Modes

Models	Bands	Power	Operable Modes
NX-5600H	Lowband VHF (39-50)	110 Watts	Analog/NXDN
NX-5700	VHF (136-174)	50 Watts	Analog/NXDN/DMR/P25
NX-5700H	VHF (136-174)	110 Watts	Analog/NXDN/P25
NX-5800H	UHF (380-470, 450-520)	100 Watts	Analog/NXDN/P25
NX-5800	UHF (380-470, 450-520)	50 Watts	Analog/NXDN/DMR/P25
NX-5900	7/800	35 Watts	Analog/NXDN/DMR/P25

■ MOUNTING & REMOTE CONFIGURATIONS

(See NX-5000 Accessory page for details)

- [KCH-19](#) Basic Control Head
- [KCH-20R](#) Featured Control Head
- [KCH-21R](#) Handheld Control Head
- Single Remote Control Head ([KRK Kit](#) & [KCT-71](#) or [KCT-77](#) Cable required)
- Dual Remote Control Heads ([KCH-19/20R/21R](#) & [KRK Kit](#) & [KCT-71](#) or [KCT-77](#) Cables required)
- Multiple RF Decks ([KRK Kit](#) & [KCT-71](#) or [KCT-77](#) Control Cable)



NEXEDGE®



NX-5700H/5800H

VHF/UHF Digital & FM Analog Mobile Radio

Table of Contents

RF Deck Only

MUST purchase necessary accessories separately

NX-5700HBF	NX-5700HBF (110W, 136-174 MHz) RF Deck Only, NXDN Conv & P25 Conv (Remote Control Head, Microphone, Bracket, DC Cable not included)
NX-5800HBF	NX-5800HBF (100W, 450-520 MHz) RF Deck Only, NXDN Conv & P25 Conv (Remote Control Head, Microphone, Bracket, DC Cable not included)
NX-5800HBF2	NX-5800HBF2 (100W, 380-470 MHz) RF Deck Only, NXDN Conv & P25 Conv (Remote Control Head, Microphone, Bracket, DC Cable not included)

Other Accessories, Software, and Services

Refer to NX-5000 series mobile accessory pages

NEXEDGE®



NX-5600H

Lowband Digital & FM Analog Mobile Radio

Table of Contents



NX-5000HBF Mobiles include:

- High Power Radio
- User Guide
- Premium Warranty: 3 Years

All Accessories / options: 1 Year

STANDARD

GENERAL FEATURES

- 110 W (39-50 MHz) Model
- 1024 CH-GID / 128 Zones
- Analog / NXDN Digital Operation
- Support NX-5000 Remote Control Head Options
- Multi-RF Deck Configuration Available (Lowband, VHF, 380-470, 450-520, 7&800)
- Built-in Micro USB A-B Interface
- Horn Alert / Public Address
- Built-in GPS Receiver
- Built-in Bluetooth® Module
- Built-in 56-bit DES Encryption (4 keys programmable by KPG-D1N)
- Optional 256-bit AES Encryption
- 12 Watt Audio Output
- DB-25 & Molex 9-pin Accessory Connector
- Active Noise Reduction (ANR)
- KPG-D1N Windows® FPU
- Flash Firmware Upgrading
- MIL-STD-810 C/D/E/F/G
- IP54/55

ANALOG MODE

- Conventional 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
- Noise Blanker

DIGITAL – NXDN® MODE

- NXDN® Conventional
- AMBE+2™ VOCODER
- 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
- Digital Two-Tone
- Status Messaging
- Remote Stun/Kill/Check
- Short & Long Data Messages
- GPS Location
- NXDN® Scrambler

OPTIONAL FEATURES & CONFIGURATIONS

GENERAL FEATURES

- 4000 Channel (KWD-5000CH)
- Front Panel Programming (KWD-5001FP)
- microSD/microSDHC Memory Card Slot (KWD-5002SD)
- Built-in Bluetooth® Module for Data (KWD-5003BT)
- Remote Control by Subscriber Units (KWD-5007RC)
- 256-bit AES Encryption (KWD-AE30K/31K Encryption Module required)

DIGITAL – NXDN MODE

- Conventional Features (Factory Installed)

Multi-Deck Compatible Models & Modes

Models	Bands	Power	Operable Modes
NX-5600H	Lowband VHF (39-50)	110 Watts	Analog/NXDN
NX-5700	VHF (136-174)	50 Watts	Analog/NXDN/DMR/P25
NX-5700H	VHF (136-174)	110 Watts	Analog/NXDN/P25
NX-5800H	UHF (380-470, 450-520)	100 Watts	Analog/NXDN/P25
NX-5800	UHF (380-470, 450-520)	50 Watts	Analog/NXDN/DMR/P25
NX-5900	7/800	35 Watts	Analog/NXDN/DMR/P25

MOUNTING & REMOTE CONFIGURATIONS

(See NX-5000 Accessory page for details)

- KCH-19 Basic Control Head
- KCH-20R Featured Control Head
- KCH-21R Handheld Control Head
- Single Remote Control Head (KRK Kit & KCT-71 or KCT-77 Cable required)
- Dual Remote Control Heads (KCH-19/20R/21R & KRK Kit & KCT-71 or KCT-77 Cables required)
- Multiple RF Decks (KRK Kit & KCT-71 or KCT-77 Control Cable)



RF Deck Only

MUST purchase necessary accessories separately

NX-5600HBF3	NX-5600HBF3 (110W, 39-50 MHz) RF Deck Only, Analog & NXDN Conv (Remote Control Head, Microphone, Bracket, DC Cable not included)
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NX-5000 Series Mobile Accessories

Table of Contents

MICROPHONES AND SPEAKERS

KMC-65M	MIL-SPEC Standard electret mobile microphone (8-pin mod. plug)
KMC-66M	MIL-SPEC Standard electret mobile microphone with 12 keypad (8-pin mod. plug)
KES-10W	External speaker, 8.5W rated, 4-Ohm, 3.5mm L-type pin plug
KES-5A	External speaker, 40W max input Note: Requires KCT-72M to connect to Remote Control Head
KCT-72M	External Accessory Connection Cable for KCH-19M / KCH-20RM
KMC-9C	Control Station Desktop Microphone (8-pin mod. plug) Note: NOT compatible with TDMA operations
KMC-59C	Control Station Desktop Microphone (8-pin mod. plug)

DC POWER CABLES

KCT-23M	DC Cable, 35-50W, 10 feet Note: For mid power mobiles (NX-5700/5700B/5800/5800B/5900/5900B) only.
KCT-23M3	DC Cable, 35-50W, 23 feet Note: For mid power mobiles (NX-5700/5700B/5800/5800B/5900/5900B) only.
KCT-23M2	DC Cable, 75-110W, 10 feet Note: For high power mobiles (NX-5600HB/5700HB) only.
KCT-23M4	DC Cable, 75/110W, 23 feet Note: For high power mobiles (NX-5600HB/5700HB) only.

MOUNTING BRACKETS

KMB-33M	Mounting Bracket Note: For mid power mobiles (NX-5700/5700B/5800/5800B/5900/5900B) only.
KMB-36	Mounting Bracket Note: For high power mobiles (NX-5600HB/5700HB) only.

CONTROL HEADS

KCH-19M	Basic Control Panel
KRK-14HM	Control Head Interface Kit for KCH-19M
KCH-20RM	Full Featured Remote Control Panel Note: - Remote configuration only. No Internal Speaker included. KES-5A is required. - microSD License (KWD-5002SD) and Bluetooth SPP License (KWD-5003BT) are NOT required for both KCH-20RM and connected RF Decks . KCH-20RM and connected RF Decks can be used of microSD and Bluetooth SPP with NO License Activation.
KCH-21RM	Hand Held Control Head for Long Cable *Requires KCT-77M2 (17 ft.) Note: - Bluetooth SPP License (KWD-5003BT) is NOT required for both KCH-21RM and connected RF Decks. KCH-21RM has built-in Bluetooth SPP license that will also activate the connected RF Decks.
KCH-21RM-S	Hand Held Control Head with Short Cable (4 ft.) Note: - Bluetooth SPP License (KWD-5003BT) is NOT required for both KCH-21RM and connected RF Decks. KCH-21RM has built-in Bluetooth SPP license that will also activate the connected RF Decks.

CONTROL HEAD REMOTE KIT (for Mid Power Mobiles)

KRK-15BM	Control Head Remote Kit Note: For mid power mobiles (NX-5700/5700B/5800/5800B/5900/5900B) only.
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REMOTE & MULTI RF DECK CABLES

KCT-71M2	Remote Control Cable (17 feet)
KCT-71M3	Remote Control Cable (25 feet)
KCT-71M4	Remote Control Cable (1.6 feet)
KCT-71A50	KCT-71A 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.
KCT-71A100	KCT-71A 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.
KCT-77M2	Remote Control Cable for KCH-21RM (17 feet)



NX-5000 Series Mobile Accessories

Table of Contents

OTHER ACCESSORIES

KCT-46	Ignition sense cable Note: For mid power mobiles (NX-5700/5700B/5800/5800B/5900/5900B) only.
KCT-18	Ignition sense cable Note: For high power mobiles (NX-5600HB/5700HB) only.
KAP-2	Horn Alert/P.A. Relay Option Note: For mid power mobiles (NX-5700/5700B/5800/5800B/5900/5900B) only.
KCT-72M	External Accessory Connection Cable for KCH-19M / KCH-20RM
KLF-2	Line Filter (suppresses alternator whine, 25dB, 25A max).
KMB-10	Key lock adapter Note: For mid power mobiles (NX-5700/5700B/5800/5800B/5900/5900B) only.
KRA-40GM	GPS Antenna
KCT-90USB	USB Mobile Cable for SD Card Direct Access Support Note: microSD function requires KWD-5002SD license.
KCT-91MRS	DB25 Cable for Mobile Relay Station (Conventional Only) Note: - Mobile Relay Station requires Multi RF Deck Configuration. - Built-in GPS and Bluetooth are not available with Mobile Relay Station. - DMR mode is not available
KPS-15	DC Switching Power Supply (117/230 VAC; 23A max. continuous, 25A peak)
KMB-34	Control Station Mounting Case for KPS-15 Power Supply with mobile Note: For mid power mobiles (NX-5700/5700B/5800/5800B/5900/5900B) only.

Sensear Bluetooth® Headsets Non-IS Models (SENS® Technology)

SM1PB003	Sensear Non-IS BT Headband Single hearing protection IP54 with NRR of 27dB
SM1PE003	Sensear Non-IS BT Behind-the-Neck Single hearing protection IP54 with NRR of 24dB
SM1PH003	Sensear Non-IS BT Helmet Mount Single hearing protection IP54 with NRR of 23dB

Sensear Bluetooth® Headsets IS Rated Models (SENS® Technology)

SM1PBIS02*	Sensear IS Rated BT Headband Single hearing protection IP54 with NRR of 27dB
SM1PEIS02*	Sensear IS Rated BT Behind-the-Neck Single hearing protection IP54 with NRR of 24dB
SM1PHIS02*	Sensear IS Rated BT Helmet Mount Single hearing protection IP54 with NRR of 23dB
SM1PBISDP02*	Sensear IS Rated BT Headband Dual hearing protection IP54 with NRR of 36dB
SM1PEISDP02*	Sensear IS Rated BT Behind-the-Neck Dual hearing protection IP54 with NRR of 36dB
SM1PHISDP02*	Sensear IS Rated BT Helmet Mount Dual hearing protection IP54 with NRR of 36dB

*SM1P-IS & SM1P-ISDP Series Headsets Intrinsic Safety:

IS certification: TIA-4950-A, CSA C22.2 No. 157.92, & UL 913 5th Edition with a hazardous location rating of Class I, II, III, Division 1 & 2, Groups A - G, T4 -20°C to +40°C, T3C -20°C to +50°C



NX-5000 Series Mobile Accessories

Table of Contents

ENCRYPTION MODULES

KWD-AE30K	<p>AES FIPS140-2 Level 1 & 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). Note: Required for Link Layer Authentication</p>
KWD-AE31K	<p>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) Note: Required for Link Layer Authentication</p>
KPG-AE1K	<p>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)</p>
KPG-DE1K	<p>DES Encryption Software Key Loader for KWD-AE31K Authentication by KPT-300LMC is required</p>



NX-5000 Series Mobile Accessories

Table of Contents

REMOTE & MULTI-RF DECK CONFIGURATIONS

DIY - CONFIGURATION GUIDE

NX-5000 series mobile are capable of following configurations using any frequency/power type combinations

- Dash Mount **Mid power models only*
- Single Band / Single Control Head
- Single Band / Dual Control Head
- Dual Band / Single Control Head
- Dual Band / Dual Control Head
- Triple Band / Single Control Head
- Triple Band / Dual Control Head



This order guide is intended for DIY configuring and assembly of NX-5000 multi-deck configuration.

For Factory Assembly orders, refer to convenient Accessory Kit & Assembly Labor codes.

STEP 1. Select Mobile(s) / Up to 3 mobiles of any combination

- Mid Power Mobiles : NX-5700B, NX-5800B, NX-5900B
- High Power Mobiles : NX-5600HB, NX-5700HB, NX-5800HB

STEP 2. Add power cable and bracket / For each Mobile Deck

- Mid Power Mobiles : KCT-23M(10 ft) or KCT-23M3(23ft), KMB-33M(bracket), and KRK-15BM(Control Head Remote Kit)
- High Power Mobiles : KCT-23M2(10 ft) or KCT-23M4(23ft), and KMB-36(bracket)

STEP 3. Select Control Head(s). Up to two Control Heads.

- KCH-19M Basic Control Head + KRK-14HM Control Head Interface Kit
- KCH-20RM Full Featured Control Head + KCT-72M(Acc Connection Port) + KES-5A (Speaker)
- KCH-21RM Handheld Control Head

STEP 4. Add Microphone for each Control Head.

- KMC-65M Standard Microphone
- KMC-66M Microphone with 12 keypad
- or from other 8pin audio input accessories

STEP 5. Select Desired Cable Length (Radio to Control Head)

- For KCH-19M/KCH-20RM Control Heads:
17ft.(KCT-71M2, 25ft. (KCT-71M3), 1.6ft.(KCT-71M4), or custom length (KCT-71A50/KCT-71A100)
- For KCH-21RM Control Head:
17ft. (KCT-77M2)

STEP 6. Add Deck to Deck Connection Cable (ONLY for multi-RF configuration)

- For Dual-band configuration : Requires ONE x KCT-71M4 (1.6ft.)
- For Tri-band configuration : Requires TWO x KCT-71M4 (1.6ft)



NX-5000 Series Mobile Accessories

Table of Contents

CONVENIENT REMOTE & MULTI-RF DECK ACCESSORY KITS

MID POWER / Remote Kit - Single Head / Single RF Deck

5ABM	KMC-65M, KCH-19M, KRK-14HM, KRK-15BM, KCT-71M2, KCT-23M3, KMB-33M
5AFM	KMC-65M, KCH-20RM, KRK-15BM, KCT-71M2, KCT-23M3, KMB-33M, KES-5A, KCT-72M

5AHM	KCH-21RM, KRK-15BM, KCT-77M2, KCT-23M3, KMB-33M
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MID POWER / Remote Kit - Dual Head / Single RF Deck

5ABBM	KMC-65M(x2), KCH-19M(x2), KRK-14HM(x2), KRK-15BM, KCT-71M2(x2), KCT-23M3, KMB-33M
5AFFM	KMC-65M(x2), KCH-20RM(x2), KRK-15BM, KCT-71M2(x2), KCT-23M3, KMB-33M, KES-5A(x2), KCT-72M(x2)

MID POWER / Remote Kit - Single Head / Dual RF Deck

5ABMM	KMC-65M, KCH-19M, KRK-14HM, KRK-15BM(x2), KCT-71M2, KCT-71M4, KCT-23M3(x2), KMB-33M(x2)
5AFMM	KMC-65M, KCH-20RM, KRK-15BM(x2), KCT-71M2, KCT-71M4, KCT-23M3(x2), KMB-33M(x2), KES-5A, KCT-72M
5AHMM	KCH-21RM, KRK-15BM(x2), KCT-77M2, KCT-71M4, KCT-23M3(x2), KMB-33M(x2)

MID POWER / Remote Kit - Single Head / Dual RF Deck, External Speakers per deck

5ABMM-MR	KMC-65M, KCH-19M, KRK-14HM, KRK-15BM(x2), KCT-71M2, KCT-71M4, KCT-23M3(x2), KMB-33M(x2), KES-5A(x2), KAP-2(x2)
5AFMM-MR	KMC-65M, KCH-20RM, KRK-15BM(x2), KCT-71M2, KCT-71M4, KCT-23M3(x2), KMB-33M(x2), KES-5A(x2), KAP-2(x2)
5AHMM-MR	KCH-21RM, KRK-15BM(x2), KCT-77M2, KCT-71M4, KCT-23M3(x2), KMB-33M(x2), KES-5A(x2), KAP-2(x2)

MID POWER / Remote Kit - Dual Head / Dual RF Deck

5ABBM	KMC-65M(x2), KCH-19M(x2), KRK-14HM(x2), KRK-15BM(x2), KCT-71M2(x2), KCT-71M4, KCT-23M3(x2), KMB-33M(x2)
5AFFMM	KMC-65M(x2), KCH-20RM(x2), KRK-15BM(x2), KCT-71M2(x2), KCT-71M4, KCT-23M3(x2), KMB-33M(x2), KES-5A(x2), KCT-72M(x2)

MID POWER / Remote Kit - Dual Head / Dual RF Deck, External Speakers per deck

5ABBM-MR	KMC-65M(x2), KCH-19M(x2), KRK-14HM(x2), KRK-15BM(x2), KCT-71M2(x2), KCT-71M4, KCT-23M3(x2), KMB-33M(x2), KES-5A(x2), KAP-2(x2)
5AFFMM-MR	KMC-65M(x2), KCH-20RM(x2), KRK-15BM(x2), KCT-71M2(x2), KCT-71M4, KCT-23M3(x2), KMB-33M(x2), KES-5A(x2), KAP-2(x2)

HIGH POWER / Single Head Remote Mount Kit

6ABMIG	KMC-65M, KCH-19M, KRK-14HM, KCT-71M2, KCT-23M4, KCT-18, KMB-36
6AFMIG	KMC-65M, KCH-20RM, KCT-71M2, KCT-23M4, KCT-72M, KES-5A, KCT-18, KMB-36
6AHMIG	KCH-21RM, KCT-77M2, KCT-23M4, KCT-18, KMB-36

HIGH POWER / Single Remote Mount / Dual High Power RF Deck

6AFMMIG	KMC-65M, KCH-20RM, KCT-71M2, KCT-23M4(x2), KCT-72M, KES-5A, KCT-18(x2), KMB-36 (x2), KCT-71M4
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HIGH POWER / Single Deck Dual Head Remote Mount

6ABBMIG	KMC-65M(x2), KCH-19M(x2), KRK-14HM(x2), KCT-71M2(x2), KCT-23M4, KCT-18, KMB-36
6AFFMIG	KMC-65M(x2), KCH-20RM(x2), KCT-71M2(x2), KCT-23M4, KCT-72M(x2), KES-5A(x2), KCT-18, KMB-36

	<h1 style="margin: 0;">NX-5000 Series Mobile Accessories</h1>	Table of Contents
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REMOTE & MULTI-RF DECK ASSEMBLY LABORS	DEALER	LIST
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Basic assembly and setup service for Remote & Multi-RF Deck configurations.

Note1: MUST submit the Remote Mount Configuration Request Form for multi-band system

Note2: When mixing two accessory kits to configure one multi-band system, you MUST add ONE KCT-71M4 cable to your order.

Ordering Example: Creating Tri-Deck (2 mid power + 1 high power deck)

- 2 x NX-5x00BK** Any of mid power deck, any band
- 1 x NX-5x00HBF** Any of high power deck, any band
- 1 x 5AFMM** Accessory kit for two mid power decks
- 1 x KCT-71M4** Connector cable to bridge two accessory packages
- 1 x 6AFMIG** Accessory kit for high power deck
- 1 x L-5037** Labor code for Triple Deck Radio assembly

As a result, radio is configured as... **two control heads, triple deck connected, with 2 mid power and 1 high power deck.**

Note3: MUST purchase NX-5x00(H)B RF Decks and corresponding Remote Kit(s) with all listed labors.

L-5029	Factory Assembly & Factory Packing for Single Head Remote Kit and Radio
L-5030	Factory Assembly & Factory Packing for Dual Head Remote Kit and Radio
L-5031	Factory Assembly & Factory Packing for Single Head Remote Kit and Dual Deck Radio
L-5032	Factory Assembly & Factory Packing for Single Head / Dual Deck / Ext. Speakers
L-5033	Factory Assembly & Factory Packing for Dual Head and Dual Deck Radio
L-5034	Factory Assembly & Factory Packing for Dual Head / Dual Deck / Ext. Speakers
L-5035	Factory Assembly & Factory Packing for Single Head Remote and Triple Deck Radio
L-5037	Factory Assembly & Factory Packing for Dual Head and Triple Deck Radio

INSTALLATION / TUNING SERVICES

L-5001	Factory Activation of Radio Feature Licenses (per Radio) Note: Must purchase Radio Feature Licenses separately. KPT-300LMC's History Menu will not display the Radio Features activated by Factory.
L-5006	NX-5000 Mobile Programming (with basic TX/RX check)
L-5007	Install KWD-AE30K in NX-5000 series Mobile (Must purchase module separately)
L-5008	Install KWD-AE31K in NX-5000 series Mobile (Must purchase module separately)
L-5015	Install KAP-2 (Default) HR1/ INTERNAL Sp./PA. Note: This labor code is only for individual orders for mobile configuration. The labor code (L-5032, 5034, and 5036) for Multi RF Deck Configuration Package includes installation of KAP-2.
L-5019	Install KAP-2 (Default) HR1/ EXTERNAL Sp./PA. Note: This labor code is only for individual orders for mobile configuration. The labor code (L-5032, 5034, and 5036) for Multi RF Deck Configuration Package includes installation of KAP-2.
L-5051	P25 CAP Compliance of Non-Encrypted Radio - Disable Built-in DES
L-5077	FSFS++ Forest Service Feature Set - Factory Installation Adds Tactical Zone improvements and Analog Conv & P25 Conv Zone Cloning Note: Must purchase <u>per Radio</u> <ul style="list-style-type: none"> • This feature set is provided by custom firmware based on V4.21.00 firmware. • Feature set is applicable for analog conventional / P25 conventional modes only. • Feature set does not support mobile multi-deck configuration. • Feature set will not work with any other firmware options or customized firmware. • Custom firmware is not eligible for warranty compensation.
L-1849	FSFS++ Forest Service Feature Set - Field Installation Adds Tactical Zone improvements and Analog Conv & P25 Conv Zone Cloning <ul style="list-style-type: none"> • This feature set is provided as custom firmware based on V4.21.00 firmware. • Feature set is applicable for analog conventional / P25 conventional modes only. • Feature set does not support Mobile multi-deck configuration. • Feature set will not work with any other firmware options or customized firmware. • Custom firmware is not eligible for warranty compensation.



NX-5000 Series Mobile Accessories

Table of Contents

SERVICE RELATED ACCESSORIES

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 Note: Requires P25 Trunk system programming privileges for P25 Trunk programming. Must purchase L-5005 or KWD-ASK Hardware Access Keys
KWD-ASK-MK	Master Key for activating KWD-ASK-AK Access Keys - Restricted Purchase Requirements - Notes: <ul style="list-style-type: none"> • For NX-5000 series only. • Sold to trunked system operator (SYSOP) or SYSOP authorized entities only • Must have KPG-D1NK • SYSOP must provide 3-digit HEX HSID to Kenwood with P25 Trunking System Keys Request Form placed on Kenwood Tools. • Purchase KWD-ASK-AK Access Keys if needed.
KWD-ASK-AK	Access Key for KPG-D1NK P25 trunked programming Notes: Enables P25 Trunked system programming privileges in a KPG-D1NK. <ul style="list-style-type: none"> • For NX-5000 series only • Must be activated by trunked system operator (SYSOP) with KWD-ASK-MK Master Key • Must have KPG-D1NK • 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.
KPG-115	Encryption Key Loader Interface Cable for Motorola KVL-3000/3000 Plus/4000
KPG-115AUT	KVL-4000 Radio Authentication Cable Note: Only capable for P25 Radio Authentication. Not available for Encryption Key Loading.
KPG-46XM	Full Speed USB Programming interface cable Note: This cable with USB mode may be used for SD Card Direct Access.
KPG-CLN-RJ45	Mobile-to-Mobile Cloning Cable (RJ45:RJ45), 3m

FleetSync® & NEXEDGE® AVL & MESSAGING

KAS-10	FleetSync & NEXEDGE AVL & Messaging Software with NEXEDGE Trunking VoIP Dispatch Note: <ul style="list-style-type: none"> - 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 details. - NEXEDGE Gen2, Type-D Trunking and DMR System not supported.
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NX-3720HG/3820HG

VHF/UHF Digital & FM Analog Mobile Radios

Table of Contents



All NX-3000 Series Mobiles include:

- Standard Microphone (KMC-65M)
- Mounting Bracket
- DC Cable
- Blade Fuse
- User Guide
- Premium Warranty: 3 Years

All Accessories / options: 1 Year

Because of spurious signal (birdie), the following frequencies (and ± 7.5 kHz ranges) are not allowed:

- | | | |
|------------|------------|------------|
| • 139.2000 | • 403.2000 | • 460.8000 |
| • 144.0000 | • 408.0000 | • 465.6000 |
| • 148.8000 | • 412.8000 | • 470.4000 |
| • 153.6000 | • 417.6000 | • 475.2000 |
| • 158.4000 | • 422.4000 | • 480.0000 |
| • 163.2000 | • 427.2000 | • 484.8000 |
| • 166.4000 | • 432.0000 | • 489.6000 |
| • 168.0000 | • 436.8000 | • 494.4000 |
| • 172.8000 | • 441.6000 | • 499.2000 |
| | • 446.4000 | • 504.0000 |
| | • 451.2000 | • 508.8000 |
| | • 456.0000 | • 513.6000 |
| | | • 518.4000 |

1. Designed to operate digital, DMR OR NXDN, along with analog FM; a single digital protocol selected with programming software.

STANDARD

■ GENERAL FEATURES

- 50 W (136-174 MHz) Models
- 45 W (400-470, 450-520 MHz) Models
- 512 CH / 128 Zones
- 4-Line Basic Frame (2-Line Main/Sub-LCD, icon & key guide) / 14 characters
- 4-Line Text Message Frame (2 Lines of Text, icon & key guide)
- Function/Status LCD Icons
- Multi-Language Display
- Date & 12/24 Hour Time Clock
- 7-color LED Indicator
- Transmit/Busy/Call Alert/Warn LED
- Emergency/AUX Key
- 4W Speaker Audio
- DB-15 Accessory Connector
- Dual Digital Protocol ¹
- Emergency Call Features
- Built-in GPS Receiver
- Built-in Bluetooth® Module
- Active Noise Reduction (ANR)
- KPG-D3N Windows® FPU
- Flash Firmware Upgrading
- Optional Software-based DES and AES Encryptions (Digital Only)
- MIL-STD-810 C/D/E/F/G
- IP-54 Water & Dust Intrusion
- Digital Encode/Decode Format

■ 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

■ DIGITAL – NXDN® MODE

- NXDN® Conventional
- NXDN® TYPE-C (Gen1/Gen2) Trunking Option
- 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
- Digital Two-Tone
- Status Messaging
- Remote Stun/Kill/Check
- Short & Long Data Messages
- GPS Location
- NXDN® Scrambler

■ DIGITAL – DMR MODE

- DMR Tier 2 Conventional
- DMR Tier 3 Trunking Option
- DMR Auto Slot Select (DASS)
- AMBE+2™ VOCODER
- 12.5 kHz Channels
- Over-the-Air Alias
- Over-the-Air Programming
- Site Roaming
- Call Interrupt (Direct & Repeater Mode)
- Paging Call
- Emergency Call
- All Group Call
- Late Entry
- Status Messaging
- Remote Control by Subscriber Units
- ARC4 Encryption Option

OPTIONAL FEATURES

- 1000 Channel (**KWD-3000CH**)
- Front Panel Programming (**KWD-3001FP**)
- Built-in Bluetooth® Module for Data (**KWD-3002BT**)
- Digital NXDN Trunking and Trunking 2.5 (**KWD-3501TR**)
- DMR Tier 2 Conventional (**Factory Installed**)
- DMR Tier 3 Trunking and Trunking 2.5 (**KWD-3302TR**)
- DMR ARC4 Enhanced Encryption (**KWD-3502EE**)
- AES/DES Encryption (**KWD-3503AE**)
- Remote Control by Subscriber Units (**KWD-3504RC**)

RADIO

NX-3720HGK	VHF (136-174MHz), 50 Watts, 512 CH, 128 Zones
NX-3820HGK	UHF (450 - 520MHz), 45 Watts, 512 CH, 128 Zones
NX-3820HGK2	UHF (400 - 470MHz), 45 Watts, 512 CH, 128 Zones

RADIO TRUNKING PACKAGE

NX-3720HGK-TR	VHF (136-174MHz), 50 Watts, 512 CH, 128 Zones with NXDN Trunking
NX-3820HGK-TR	UHF (450 - 520MHz), 45 Watts, 512 CH, 128 Zones with NXDN Trunking
NX-3820HGK2-TR	UHF (400 - 470MHz), 45 Watts, 512 CH, 128 Zones with NXDN Trunking



NX-3720HG/3820HG

VHF/UHF Digital & FM Analog Mobile Radios

Table of Contents

CONTROL HEAD REMOTE KIT

KRK-18HM Interface Kit for a Control Head

KRK-19BM Interface Kit for an RF Deck

Note: Remote Control Cable must be purchased separately.

REMOTE CONTROL CABLES

KCT-71M2 Remote Control Cable (17 feet)

KCT-71M3 Remote Control Cable (25 feet)

KCT-71M4 Remote Control Cable (1.6 feet)

KCT-71A50 KCT-71A 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.

KCT-71A100 KCT-71A 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.

MOBILE INSTALLATION ACCESSORIES

KCT-60M DB15-to-15pin Molex Adapter Cable

KCT-18 Ignition sense cable (requires KCT-60M Acc. Cable Option)

KCT-72M External Accessory Connection Cable for KRK-18HM

KLF-2 Line Filter (suppresses alternator whine, 25dB, 25A max).

KMB-10 Key lock adapter

KRA-40GM GPS Antenna



NX-3720HG/3820HG

VHF/UHF Digital & FM Analog Mobile Radios

Table of Contents

CONTROL STATION INSTALLATION ACCESSORIES

KMB-34	Control Station Mounting Case for KPS-15 Power Supply and Mobiles (excludes TK-5x10/6110 series). (mobile mounting hardware included)
KPS-15	DC Switching Power Supply (117/230 VAC; 23A max. continuous, 25A peak)

MICROPHONES, SPEAKERS AND AUDIO ACCESSORIES

KMC-65M	MIL-SPEC Standard electret mobile microphone (8-pin mod. plug)
KMC-66M	MIL-SPEC Standard electret mobile microphone with 12 keypad (8-pin mod. plug)
KMC-9C	Control Station Desktop Microphone (8-pin mod. plug) Note: NOT compatible with TDMA operations
KMC-59C	Control Station Desktop Microphone (8-pin mod. plug) Note: Compatible with FDMA (analog / NXDN) and TDMA (DMR) Operation.
KES-10W	External speaker, 8.5W rated, 4-Ohm, 3.5mm L-type pin plug
KES-5A	External speaker, 40W max input Note: requires KCT-60M installed.

Sensear Bluetooth® Headsets Non-IS Models (SENS® Technology)

SM1PB003	Sensear Non-IS BT Headband Single hearing protection IP54 with NRR of 27dB
SM1PE003	Sensear Non-IS BT Behind-the-Neck Single hearing protection IP54 with NRR of 24dB
SM1PH003	Sensear Non-IS BT Helmet Mount Single hearing protection IP54 with NRR of 23dB

Sensear Bluetooth® Headsets IS Rated Models (SENS® Technology)

SM1PBIS02*	Sensear IS Rated BT Headband Single hearing protection IP54 with NRR of 27dB
SM1PEIS02*	Sensear IS Rated BT Behind-the-Neck Single hearing protection IP54 with NRR of 24dB
SM1PHIS02*	Sensear IS Rated BT Helmet Mount Single hearing protection IP54 with NRR of 23dB
SM1PBISDP02*	Sensear IS Rated BT Headband Dual hearing protection IP54 with NRR of 36dB
SM1PEISDP02*	Sensear IS Rated BT Behind-the-Neck Dual hearing protection IP54 with NRR of 36dB
SM1PHISDP02*	Sensear IS Rated BT Helmet Mount Dual hearing protection IP54 with NRR of 36dB

*SM1P-IS & SM1P-ISDP Series Headsets Intrinsic Safety:

IS certification: TIA-4950-A, CSA C22.2 No. 157.92, & UL 913 5th Edition with a hazardous location rating of Class I, II, III, Division 1 & 2, Groups A - G, T4 - 20°C to +40°C, T3C -20°C to +50°C

SERVICE RELATED ACCESSORIES

KPG-D3NK	License Key for KPG-D3NK Programming Software for NX-3000 Portable/Mobile Note: Requires KPT-300LMC for authentication
KPG-AE1K	License Key for AES/DES Encryption Software Key Loader for KWD-3503AE Note: - Requires KPT-300LMC for authentication - KPG-AE1 is a U.S. DOC/BIS Export Controlled Item (ECCN 5D002A).
KPG-DE1K	License Key for DES Encryption Software Key Loader for KWD-3505DE Note: - Requires KPT-300LMC for authentication
KPG-46XM	Full Speed USB Programming interface cable Note: This cable with USB mode may be used for SD Card Direct Access.

INSTALLATION / TUNING CHARGES

L-5001	Factory Activation of Radio Feature Licenses (per Radio) Note: Must purchase Radio Feature Licenses separately. <u>KPT-300LMC's History Menu will not display the Radio Features activated by Factory.</u>
L-5053	NX-3720HG/3820HG/3920G/3921G Programming (with basic TX/RX check)
L-5054	Installation for NX-3000 Portable/Mobile AES



NX-3920G/3921G

800/900MHz Digital & FM Analog Mobile Radios

Table of Contents



All NX-3000 Series Mobiles include:

- Standard Microphone (KMC-65M)
- Mounting Bracket
- DC Cable
- Blade Fuse
- User Guide
- Premium Warranty: 3 Years

All Accessories / options: 1 Year

Because of spurious signal (birdie), the following frequencies (and ± 6.25 kHz ranges) are not allowed:

- 854.4000 • 936.0000
- 859.2000 • 940.8000
- 864.0000
- 868.8000

1. Designed to operate digital, DMR OR NXDN, along with analog FM; a single digital protocol selected with programming software.

STANDARD

■ GENERAL FEATURES

- 15 W (800 MHz) Model
- 15 W (900 MHz) Model
- 512 CH / 128 Zones
- 4-Line Basic Frame (2-Line Main/Sub-LCD, icon & key guide) / 14 characters
- 4-Line Text Message Frame (2 Lines of Text, icon & key guide)
- Function/Status LCD Icons
- Multi-Language Display
- Date & 12/24 Hour Time Clock
- 7-color LED Indicator
- Transmit/Busy/Call Alert/Warn LED
- Emergency/AUX Key
- 4W Speaker Audio
- DB-15 Accessory Connector
- Dual Digital Protocol ¹
- Emergency Call Features
- Built-in GPS Receiver
- Built-in Bluetooth® Module
- Active Noise Reduction (ANR)
- KPG-D3N Windows® FPU
- Flash Firmware Upgrading
- Optional Software-based DES and AES Encryptions (Digital Only)
- MIL-STD-810 C/D/E/F/G
- IP-54 Water & Dust Intrusion
- Digital Encode/Decode Format

■ 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

■ DIGITAL – NXDN® MODE

- NXDN® Conventional
- NXDN® TYPE-C (Gen1/Gen2) 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

■ DIGITAL – DMR MODE

- DMR Tier 2 Conventional Option
- DMR Tier 3 Trunking Option
- DMR Auto Slot Select (DASS)
- AMBE+2™ VOCODER
- 12.5 kHz Channels
- Over-the-Air Alias
- Over-the-Air Programming
- Site Roaming
- Call Interrupt (Direct & Repeater Mode)
- Paging Call
- Emergency Call
- All Group Call
- Late Entry
- Status Messaging
- Remote Control by Subscriber Units
- ARC4 Encryption Option

OPTIONAL FEATURES

- 1000 Channel (**KWD-3000CH**)
- Front Panel Programming (**KWD-3001FP**)
- Built-in Bluetooth® Module for Data (**KWD-3002BT**)
- Digital NXDN Trunking (**Factory Installed**)
- DMR Tier 2 Conventional (**KWD-3301CV**)
- DMR Tier 3 Trunking (**KWD-3301CV & KWD-3302TR**)
- DMR ARC4 Enhanced Encryption (**KWD-3502EE**)
- AES/DES Encryption (**KWD-3503AE**)
- Remote Control by Subscriber Units (**KWD-3504RC**)

RADIO

NX-3920GK	800MHz, 15 Watts, 512 CH, 128 Zones, NXDN Conv & Trunking
NX-3921GK	900MHz, 15 Watts, 512 CH, 128 Zones, NXDN Conv & Trunking



NX-3920G/3921G

800/900MHz Digital & FM Analog Mobile Radios

Table of Contents

CONTROL HEAD REMOTE KIT

KRK-18HM Interface Kit for a Control Head

KRK-19BM Interface Kit for an RF Deck

Note: Remote Control Cable must be purchased separately.

REMOTE CONTROL CABLES

KCT-71M2 Remote Control Cable (17 feet)

KCT-71M3 Remote Control Cable (25 feet)

KCT-71M4 Remote Control Cable (1.6 feet)

KCT-71A50 KCT-71A 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.

KCT-71A100 KCT-71A 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.

MOBILE INSTALLATION ACCESSORIES

KCT-60M DB15-to-15pin Molex Adapter Cable

KCT-18 Ignition sense cable (requires KCT-60M Acc. Cable Option)

KCT-72M External Accessory Connection Cable for KRK-18HM

KLF-2 Line Filter (suppresses alternator whine, 25dB, 25A max).

KMB-10 Key lock adapter

KRA-40GM GPS Antenna

CONTROL STATION INSTALLATION ACCESSORIES

KMB-34 Control Station Mounting Case for KPS-15 Power Supply and Mobiles (excludes TK-5x10/6110 series).
(mobile mounting hardware included)

KPS-15 DC Switching Power Supply (117/230 VAC; 23A max. continuous, 25A peak)



NX-3920G/3921G

800/900MHz Digital & FM Analog Mobile Radios

Table of Contents

MICROPHONES, SPEAKERS AND AUDIO ACCESSORIES

KMC-65M	MIL-SPEC Standard electret mobile microphone (8-pin mod. plug)
KMC-66M	MIL-SPEC Standard electret mobile microphone with 12 keypad (8-pin mod. plug)
KMC-9C	Control Station Desktop Microphone (8-pin mod. plug) Note: NOT compatible with TDMA operations
KMC-59C	Control Station Desktop Microphone (8-pin mod. plug) Note: Compatible with FDMA (analog / NXDN) and TDMA (DMR) Operation.
KES-10W	External speaker, 8.5W rated, 4-Ohm, 3.5mm L-type pin plug
KES-5A	External speaker, 40W max input Note: requires KCT-60M installed.

Sensear Bluetooth® Headsets Non-IS Models (SENS® Technology)

SM1PB003	Sensear Non-IS BT Headband Single hearing protection IP54 with NRR of 27dB
SM1PE003	Sensear Non-IS BT Behind-the-Neck Single hearing protection IP54 with NRR of 24dB
SM1PH003	Sensear Non-IS BT Helmet Mount Single hearing protection IP54 with NRR of 23dB

Sensear Bluetooth® Headsets IS Rated Models (SENS® Technology)

SM1PBIS02*	Sensear IS Rated BT Headband Single hearing protection IP54 with NRR of 27dB
SM1PEIS02*	Sensear IS Rated BT Behind-the-Neck Single hearing protection IP54 with NRR of 24dB
SM1PHIS02*	Sensear IS Rated BT Helmet Mount Single hearing protection IP54 with NRR of 23dB
SM1PBISDP02*	Sensear IS Rated BT Headband Dual hearing protection IP54 with NRR of 36dB
SM1PEISDP02*	Sensear IS Rated BT Behind-the-Neck Dual hearing protection IP54 with NRR of 36dB
SM1PHISDP02*	Sensear IS Rated BT Helmet Mount Dual hearing protection IP54 with NRR of 36dB

*SM1P-IS & SM1P-ISDP Series Headsets Intrinsic Safety:

IS certification: TIA-4950-A, CSA C22.2 No. 157.92, & UL 913 5th Edition with a hazardous location rating of Class I, II, III, Division 1 & 2, Groups A - G, T4 -20°C to +40°C, T3C -20°C to +50°C

SERVICE RELATED ACCESSORIES

KPG-D3NK	License Key for KPG-D3NK Programming Software for NX-3000 Portable/Mobile Note: Requires KPT-300LMC for authentication
KPG-AE1K	License Key for AES/DES Encryption Software Key Loader for KWD-3503AE Note: - Requires KPT-300LMC for authentication - KPG-AE1 is a U.S. DOC/BIS Export Controlled Item (ECCN 5D002A).
KPG-DE1K	License Key for DES Encryption Software Key Loader for KWD-3505DE Note: - Requires KPT-300LMC for authentication
KPG-46XM	Full Speed USB Programming interface cable Note: This cable with USB mode may be used for SD Card Direct Access.

INSTALLATION / TUNING CHARGES

L-5001	Factory Activation of Radio Feature Licenses (per Radio) Note: Must purchase Radio Feature Licenses separately. <u>KPT-300LMC's History Menu will not display the Radio Features activated by Factory.</u>
L-5053	NX-3720HG/3820HG/3920G/3921G Programming (with basic TX/RX check)
L-5054	Installation for NX-3000 Portable/Mobile AES

VHF/UHF NXDN & FM Analog Mobile Radios



All NX-1000 series mobiles include:

- Standard Microphone (KMC-65M)
- Mounting Bracket
- DC Cable
- 15A Fuse
- Instruction Manual
- Premium Warranty: 3 Years*

* All Accessories / options: 1 Year

■ GENERAL FEATURES

- 50 W (136-174 MHz) Model
- 45 W (400-470 MHz) Model
- NXDN & Analog Mode
- Optional DMR Mode Conversion
- AMBE+2™ VOCODER
- 260 CH-GID / 128 Zones
- 13-Segment 10-character LCD Display
- 7-color large LED indicator
- White Backlit
- KENWOOD Audio Quality
 - 6W (max) loud audio
 - Audio Equalizer: Flat, High, or Low
 - Auto Gain Control: On, High, or Low
 - Microphone type settings
- Multiple Scan Functions
 - Dual/Single Priority Scan, Single/Multi Zone Scan, Normal Scan
- Orange-colored Emergency button
- Horn Alert and Public Address function
- Ignition Sense function
- Voice Announcement
- DB15 Accessory Interface
- Lone Worker
- Max/Min Volume Setting
- Display Customization
- Power-on LED
- Menu Mode
- MIL-STD-810 C/D/E/F/G/H
- IP-54 Water & Dust Intrusion

■ DIGITAL – NXDN® MODE

- NXDN® Conventional & Site Roaming
- NXDN® Type-D Trunking Option
- 6.25 & 12.5 kHz Channels
- Over-the-Air Alias
- Digital / Analog Mixed Mode
- Group / Individual Call
- Status, Short Data, Paging Call
- Remote Stun, Kill, Monitor, Check & Control
- GPS Combination with additional module
- Late Entry
- NXDN® Scrambler

■ DIGITAL – DMR MODE (Optional)

- DMR Tier 2 Conventional & Site Roaming
- DMR Auto Slot Select (DASS)
- 12.5 kHz Channels
- Digital / Analog Mixed Mode
- Call Interrupt
- Group / Individual Call
- Status, Short Data, Paging Call
- Remote Stun, Kill, Monitor, Check & Control
- Over-the-Air Alias
- GPS Combination with additional module
- Late Entry
- ARC4 Encryption Option

■ ANALOG MODE

- Conventional Zones
- FleetSync®: PTT ID, Stun/Revive, Mute hold, Talk back, Selcall
- MDC-1200: PTT ID, Radio Inhibit/Unihabit, Radio Check, Emergency
- QT / DQT
- Two-Tone
- DTMF
- Built-in Voice Inversion Scrambler (per channel)
- Built-in Compressor (per channel)

OPTIONAL FEATURES

- NXDN Type-D Trunking License (**KWD-1202TDK**)
- DMR Conversion License (**KWD-1301CN**)
- DMR ARC4 Enhanced Encryption (**KWD-1500EE**) *Only applicable after DMR conversion
- Remote Control Command by Subscriber Units (**KWD-1501RC**)

Digital mode conversion & Type-D requires additional firmware loading after applying upgrade license. Please download latest firmware from MyTools website > Product > Firmware

MODEL

NX-1700HNVK	136-174 MHz VHF 50W, 260 Ch / 128 Zones
NX-1800HNUK2	400-470 MHz UHF 45W, 260 Ch / 128 Zones

MOBILE INSTALLATION ACCESSORIES

KCT-60M	DB15-to-15pin Molex Adapter Cable
KCT-18	Ignition sense cable (requires KCT-60M Acc. Cable Option)
KLF-2	Line Filter (suppresses alternator whine, 25dB, 25A max).
KMB-10	Key lock adapter

CONTROL STATION INSTALLATION ACCESSORIES

KMC-9C	Control Station Desktop Microphone (8-pin mod. plug) Note: NOT compatible with TDMA operations
KMC-59C	Control Station Desktop Microphone (8-pin mod. plug) Note: Compatible with FDMA (analog / NXDN) and TDMA operations
KMB-34	Control Station Mounting Case for KPS-15 Power Supply and Mobiles (excludes TK-5x10/6110 series). (mobile mounting hardware included)
KPS-15	DC Switching Power Supply (117/230 VAC; 23A max. continuous, 25A peak)

MICROPHONES AND SPEAKERS

KMC-65M	MIL-SPEC Standard electret mobile microphone (8-pin mod. plug)
KMC-66M	MIL-SPEC Standard electret mobile microphone with 12 keypad (8-pin mod. plug)
KES-10W	External speaker, 8.5W rated, 4-Ohm, 3.5mm L-type pin plug
KES-5A	External speaker, 40W max input Note: requires KCT-60M installed.

FleetSync® & NEXEDGE® AVL & MESSAGING

GPS15XL-W Garmin Internal GPS Receiver Board for NEXEDGE/FleetSync AVL

Note:

- Conventional operation only.
- Requires GA25 MCX GPS antenna.
- Refer to www.garmin.com for GPS-15XL-W technical specifications.
- Option: Order **L-1874** for Kenwood Long Beach installation.

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.

SERVICE RELATED ACCESSORIES

KPG-46XM USB Programming interface cable

KPG-D6NK License Key for KPG-D6NK
 Programming Software for NX-1000 series portable/mobile
Note: Requires KPT-300LMC for authentication

INSTALLATION / TUNING CHARGES

L-5001 Factory Activation of Radio Feature Licenses (per Radio)
Note: Must purchase Radio Feature Licenses separately.
KPT-300LMC's History Menu will not display the Radio Features activated by Factory.

L-1873 NX-1000 Series Mobiles Programming (with basic TX/RX check)
Must submit NX-x000 Series Programming Order Form upon placing order for any programming services

L-1874 Install Garmin GPS15XL-W in NX-1000 Series mobile
Note: The KGS-3 & GPS15XL-W are not compatible with KGP-2A/2B AVL systems.



All NX-1000 series mobiles include:

- Standard Microphone (KMC-65M)
- Mounting Bracket
- DC Cable
- 15A Fuse
- Instruction Manual
- Premium Warranty: 3 Years*

* All Accessories / options: 1 Year

■ GENERAL FEATURES

- 50 W (136-174 MHz) Model
- 45 W (400-470 MHz) Model
- DMR & Analog Mode
- Optional NXDN Mode Conversion
- AMBE+2™ VOCODER
- 260 CH-GID / 128 Zones
- 13-Segment 10-character LCD Display
- 7-color large LED indicator
- White Backlit
- KENWOOD Audio Quality
 - 6W (max) loud audio
 - Audio Equalizer: Flat, High, or Low
 - Auto Gain Control: On, High, or Low
 - Microphone type settings
- Multiple Scan Functions
 - Dual/Single Priority Scan, Single/Multi Zone Scan, Normal Scan
- Orange-colored Emergency button
- Horn Alert and Public Address function
- Ignition Sense function
- Voice Announcement
- DB15 Accessory Interface
- Lone Worker
- Max/Min Volume Setting
- Display Customization
- Power-on LED
- Menu Mode
- MIL-STD-810 C/D/E/F/G/H
- IP-54 Water & Dust Intrusion

■ DIGITAL – DMR MODE

- DMR Tier 2 Conventional & Site Roaming
- DMR Auto Slot Select (DASS)
- 12.5 kHz Channels
- Digital / Analog Mixed Mode
- Call Interrupt
- Group / Individual Call
- Status, Short Data, Paging Call
- Remote Stun, Kill, Monitor, Check & Control
- Over-the-Air Alias
- GPS Combination with additional module
- Late Entry
- ARC4 Encryption Option

■ DIGITAL – NXDN® MODE (Optional)

- NXDN® Conventional & Site Roaming
- NXDN® Type-D Trunking Option
- 6.25 & 12.5 kHz Channels
- Over-the-Air Alias
- Digital / Analog Mixed Mode
- Group / Individual Call
- Status, Short Data, Paging Call
- Remote Stun, Kill, Monitor, Check & Control
- GPS Combination with additional module
- Late Entry
- NXDN® Scrambler

■ ANALOG MODE

- Conventional Zones
- FleetSync®: PTT ID, Stun/Revive, Mute hold, Talk back, Selcall
- MDC-1200: PTT ID, Radio Inhibit/Unihabit, Radio Check, Emergency
- QT / DQT
- Two-Tone
- DTMF
- Built-in Voice Inversion Scrambler (per channel)
- Built-in Compander (per channel)

OPTIONAL FEATURES

- NXDN Conversion License (**KWD-1201CD**)
- NXDN Type-D Trunking License (**KWD-1202TDK**) *Requires KWD-1201CD enabled
- DMR ARC4 Enhanced Encryption (**KWD-1500EE**)
- Remote Control Command by Subscriber Units (**KWD-1501RC**)

Digital mode conversion & Type-D requires additional firmware loading after applying upgrade license. Please download latest firmware from MyTools website > Product > Firmware

MODEL

NX-1700HDVK	136-174 MHz VHF 50W, 260 Ch / 128 Zones
NX-1800HDK2	400-470 MHz UHF 45W, 260 Ch / 128 Zones

MOBILE INSTALLATION ACCESSORIES

KCT-60M	DB15-to-15pin Molex Adapter Cable
KCT-18	Ignition sense cable (requires KCT-60M Acc. Cable Option)
KLF-2	Line Filter (suppresses alternator whine, 25dB, 25A max).
KMB-10	Key lock adapter

CONTROL STATION INSTALLATION ACCESSORIES

KMC-9C	Control Station Desktop Microphone (8-pin mod. plug) Note: NOT compatible with TDMA operations
KMC-59C	Control Station Desktop Microphone (8-pin mod. plug) Note: Compatible with FDMA (analog / NXDN) and TDMA operations
KMB-34	Control Station Mounting Case for KPS-15 Power Supply and Mobiles (excludes TK-5x10/6110 series). (mobile mounting hardware included)

KPS-15	DC Switching Power Supply (117/230 VAC; 23A max. continuous, 25A peak)
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MICROPHONES AND SPEAKERS

KMC-65M	MIL-SPEC Standard electret mobile microphone (8-pin mod. plug)
KMC-66M	MIL-SPEC Standard electret mobile microphone with 12 keypad (8-pin mod. plug)
KES-10W	External speaker, 8.5W rated, 4-Ohm, 3.5mm L-type pin plug
KES-5A	External speaker, 40W max input Note: requires KCT-60M installed.

NEXEDGE®

NX-1700HDV/1800HDU

Table of Contents

VHF/UHF DMR & FM Analog Mobile Radios**FleetSync® & NEXEDGE® AVL & MESSAGING**

GPS15XL-W Garmin Internal GPS Receiver Board for DMR/FleetSync AVL

Note:

- Conventional operation only.
- Requires GA25 MCX GPS antenna.
- Refer to www.garmin.com for GPS-15XL-W technical specifications.
- Option: Order **L-1874** for Kenwood Long Beach installation.

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.

SERVICE RELATED ACCESSORIES

KPG-46XM USB Programming interface cable

KPG-D6NK License Key for KPG-D6NK
 Programming Software for NX-1000 series portable/mobile
Note: Requires KPT-300LMC for authentication

INSTALLATION / TUNING CHARGES

L-5001 Factory Activation of Radio Feature Licenses (per Radio)
Note: Must purchase Radio Feature Licenses separately.
KPT-300LMC's History Menu will not display the Radio Features activated by Factory.

L-1873 NX-1000 Series Mobiles Programming (with basic TX/RX check)

L-1874 Install Garmin GPS15XL-W in NX-1000 Series mobile
Note: The KGS-3 & GPS15XL-W are not compatible with KGP-2A/2B AVL systems.

VHF/UHF Digital Upgradeable Mobile Radios



All NX-1000 series mobiles include:

- Standard Microphone (KMC-65M)
- Mounting Bracket
- DC Cable
- 15A Fuse
- Instruction Manual
- Premium Warranty: 3 Years*

* All Accessories / options: 1 Year

■ GENERAL FEATURES

- 50 W (136-174 MHz) Model
- 45 W (400-470 MHz) Model
- Analog Mode
- Option NXDN Upgrade
- Optional DMR Upgrade
- AMBE+2™ VOCODER
- 260 CH-GID / 128 Zones
- 13-Segment 10-character LCD Display
- 7-color large LED indicator
- White Backlit
- KENWOOD Audio Quality
 - 6W (max) loud audio
 - Audio Equalizer: Flat, High, or Low
 - Auto Gain Control: On, High, or Low
 - Microphone type settings
- Multiple Scan Functions
 - Dual/Single Priority Scan, Single/Multi Zone Scan, Normal Scan
- Orange-colored Emergency button
- Horn Alert and Public Address function
- Ignition Sense function
- Voice Announcement
- DB15 Accessory Interface
- Lone Worker
- Max/Min Volume Setting
- Display Customization
- Power-on LED
- Menu Mode
- MIL-STD-810 C/D/E/F/G/H
- IP-54 Water & Dust Intrusion

■ ANALOG MODE

- Conventional Zones
- FleetSync®: PTT ID, Stun/Revive, Mute hold, Talk back, Selcall
- MDC-1200: PTT ID, Radio Inhibit/Unihabit, Radio Check, Emergency
- QT / DQT
- Two-Tone
- DTMF
- Built-in Voice Inversion Scrambler (per channel)
- Built-in Compressor (per channel)

■ DIGITAL – NXDN® MODE (Optional)

- NXDN® Conventional & Site Roaming
- NXDN® Type-D Trunking Option
- 6.25 & 12.5 kHz Channels
- Over-the-Air Alias
- Digital / Analog Mixed Mode
- Group / Individual Call
- Status, Short Data, Paging Call
- Remote Stun, Kill, Monitor, Check & Control
- GPS Combination with additional module
- Late Entry
- NXDN® Scrambler

■ DIGITAL – DMR MODE (Optional)

- DMR Tier 2 Conventional & Site Roaming
- DMR Auto Slot Select (DASS)
- 12.5 kHz Channels
- Digital / Analog Mixed Mode
- Call Interrupt
- Group / Individual Call
- Status, Short Data, Paging Call
- Remote Stun, Kill, Monitor, Check & Control
- Over-the-Air Alias
- GPS Combination with additional module
- Late Entry
- ARC4 Encryption Option

OPTIONAL FEATURES

- NXDN Conventional Upgrade License (**KWD-1200CAK**)
- NXDN Type-D Trunking License (**KWD-1202TDK**) *Requires KWD-1200CAK enabled
- DMR Tier 2 Conventional Upgrade License (**KWD-1300CAK**)
- DMR ARC4 Enhanced Encryption (**KWD-1500EE**) *Only applicable after DMR conversion
- Remote Control Command by Subscriber Units (**KWD-1501RC**)

Digital mode conversion & Type-D requires additional firmware loading after applying upgrade license. Please download latest firmware from MyTools website > Product > Firmware

MODEL

NX-1700HAVK	136-174 MHz VHF 50W, 260 Ch / 128 Zones
NX-1800HAUK2	400-470 MHz UHF 45W, 260 Ch / 128 Zones

MOBILE INSTALLATION ACCESSORIES

KCT-60M	DB15-to-15pin Molex Adapter Cable
KCT-18	Ignition sense cable (requires KCT-60M Acc. Cable Option)
KLF-2	Line Filter (suppresses alternator whine, 25dB, 25A max).
KMB-10	Key lock adapter

CONTROL STATION INSTALLATION ACCESSORIES

KMC-9C	Control Station Desktop Microphone (8-pin mod. plug) Note: NOT compatible with TDMA operations
KMC-59C	Control Station Desktop Microphone (8-pin mod. plug) Note: Compatible with FDMA (analog / NXDN) and TDMA operations
KMB-34	Control Station Mounting Case for KPS-15 Power Supply and Mobiles (excludes TK-5x10/6110 series). (mobile mounting hardware included)
KPS-15	DC Switching Power Supply (117/230 VAC; 23A max. continuous, 25A peak)

MICROPHONES AND SPEAKERS

KMC-65M	MIL-SPEC Standard electret mobile microphone (8-pin mod. plug)
KMC-66M	MIL-SPEC Standard electret mobile microphone with 12 keypad (8-pin mod. plug)
KES-10W	External speaker, 8.5W rated, 4-Ohm, 3.5mm L-type pin plug
KES-5A	External speaker, 40W max input Note: requires KCT-60M installed.

NEXEDGE®	<h1 style="margin: 0;">NX-1700HAV/1800HAU</h1> <h2 style="margin: 0;">VHF/UHF Digital Upgradeable Mobile Radios</h2>	Table of Contents
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FleetSync® & NEXEDGE® AVL & MESSAGING

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-15XL-W technical specifications. • Option: Order L-1874 for Kenwood Long Beach installation.		
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.	49.90	83.20

SERVICE RELATED ACCESSORIES

KPG-46XM	USB Programming interface cable
KPG-D6NK	License Key for KPG-D6NK Programming Software for NX-1000 series portable/mobile Note: Requires KPT-300LMC for authentication

INSTALLATION / TUNING CHARGES

L-5001	Factory Activation of Radio Feature Licenses (per Radio) Note: Must purchase Radio Feature Licenses separately. KPT-300LMC's History Menu will not display the Radio Features activated by Factory.
L-1873	NX-1000 Series Mobiles Programming (with basic TX/RX check)
L-1874	Install Garmin GPS15XL-W in NX-1000 Series mobile Note: The KGS-3 & GPS15XL-W are not compatible with KGP-2A/2B AVL systems.