

## NX-3720HG/3820HG NXDN® DMR Gen2 Bluetooth® GPS FleetSync®

## NX-3920G/3921G DMR T3&S DMR Auto Slot Select

### MULTI-PROTOCOL DIGITAL & ANALOG MOBILE RADIOS

This adaptable mobile radio supports both NXDN® and DMR digital protocols as well as mixed digital/FM analog operation, enabling it to serve with distinction in a wide range of enterprise and operation-critical applications. Designed with flexibility in mind, it's packed with convenient features like Bluetooth® for hands-free operation and built-in GPS. This model offers greater freedom of installation, the radio's front panel can be used as a remote control head (this requires an optional upgrade, to be available in the future). Additionally, for expansion capability a software license certification system facilitates extensive customization.



### Features

- Multi-protocol digital radio: Designed to operate under NXDN® or DMR digital, and FM analog protocols
- NXDN Conventional and Type-C & Gen2 Trunking
- DMR Tier 2 Conventional & Site Roaming
- DMR Auto Slot Select
- DMR Tier 3 Trunking
- Mixed Digital & FM Analog Operation allows gradual migration at your own pace
- 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)
- 7-color LED Bar Indicator
- Remote Control Head (Option)
- Optional DES and AES Encryption
- External and Internal Speaker Switching
- Built-in Bluetooth® for hands-free operation for IoT applications - Applicable Bluetooth profiles: HSP (Headset Profile) and SPP (Serial Port Profile)
- Renowned KENWOOD Audio Quality achieved with Active Noise Reduction (ANR) that utilizes built-in DSP
- Built-In GPS Receiver for effective fleet and incident management
- IP54 and MIL-STD-810 C/D/E/F/G
- 4 Watts Audio Output Power
- 512 CH/128 Zones
- 1000 Channel option
- Paging Call
- Emergency Call
- Status/Text Message
- Remote Stun/Kill/Check

### Digital – NXDN® Mode

- |                             |                                 |
|-----------------------------|---------------------------------|
| NXDN Conventional           | Remote Monitor                  |
| NXDN Type-C & Gen2 Trunking | All Group Call                  |
| 6.25 & 12.5 kHz Channels    | Over-the-Air Alias (OAA)        |
| Advanced GPS                | Over-the-Air Programming (OTAP) |

### Digital – DMR Mode

- |  |                          |
|--|--------------------------|
| Two-slot TDMA in 12.5kHz channels        | Call Interruption        |
| DMR Tier 2 Conventional / Site Roaming   | Dual-slot Direct Mode    |
| DMR Auto Slot Select                     | Optional ARC4 Encryption |
| S-Trunking (Ver. UP) DMR Tier 3 Trunking |                          |

### Analog – FM Mode

- |  |  |
|--|--|
| Conventional & LTR Trunking  | MDC-1200: PTT ID ANI / Caller ID         |
| FleetSync/II: PTT ID ANI / Caller ID Display, Selective Group Call, Emergency Status | Display, Emergency, Radio Check /Inhibit |
| Text Messages  | QT / DQT, DTMF, 2-Tone                   |
|  | Built-in Voice Inversion Scrambler       |



Unsurpassed interoperability for Enterprise radio users with the freedom to migrate at your own pace.



Scalable server-based system architecture for management of NEXEDGE wide area digital communications systems.



The ultimate level of sound clarity technology combining Optimization, advanced Sound Analysis and Active Noise Reduction.

# Accessories

All accessories may not be available in all markets. Contact an authorized Kenwood dealer for details and complete list of all accessories.

**KMC-9C/59C**  
Desktop Microphone



**KCT-23**  
DC Power Cable  
M: 10ft (3m) / M3: 23ft (7m)



**KLF-2**  
Line Filter



**KMB-34**  
Mounting Case  
for KPS-15



**KMC-65M**  
Microphone



**KCT-60**  
Connection Cable  
(D-sub 15 to Molex 15 Pin Connector)



**KMB-10**  
Key Lock Adapter



**KPG-180AP**  
OTAP Manager

**KMC-66M**  
Keypad Microphone



**KCT-71**  
Remote Control Cablr  
(M2: 17ft M3: 25ft M4: 16ft)



**KRA-40G**  
GPS Active Antenna



**KRK-18HM**  
Interface Kit for a  
Control Head



**KCT-18**  
Ignition Sense Cable  
(Requires KCT-60)



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



**KPS-15**  
DC Power Supply  
(23A max)



**KRK-19BM**  
Interface Kit for  
an RF Deck



## Specifications

General	NX-3720HG	NX-3820HG	NX-3920G	NX-3921G
Frequency Range	136-174 MHz	Type 1 450-520 MHz Type 2 400-470 MHz	TX/RX: 851-870 MHz TX: 806-825 MHz	TX/RX: 935-941 MHz TX: 896-902 MHz
Max. Channels Per Radio	Up to 1000 CH with option			
Number of Channels	512			
Number of Zones	128			
Channel Spacing	12.5 kHz			
Analog	12.5/15/25*/30* kHz	12.5/25* kHz	12.5/25 kHz	12.5 kHz
Digital	6.25 kHz/12.5 kHz	6.25 kHz/12.5 kHz	6.25 kHz/12.5 kHz	6.25 kHz/12.5 kHz
Power Supply	13.6 V DC ±15%			
Current Drain				
Standby	0.45 A			
RX	2.3 A			
TX	12 A			
Operating Temperature	-22°F to +140°F (-30°C to +60°C)			
Frequency Stability	± 0.5 ppm			
Dimensions	(W x H x D) Projections Not Included			
Radio with Control Head	6.30 x 1.69 x 6.30 in (160 x 43 x 160 mm)			
Weight Radio				
Radio with Control Head	2.65 lbs (12 kg)			
FCC ID				
Type 1	K44479200	K44479300	K44502600	K44502601
Type 2		K44479301		
IC Certification				
Type 1	282F-479200			282F-502601
Type 2		282F-479301	282F-502600	

\*25/30 kHz in VHF/UHF Bands (except T-Band) are not included in the models sold in the USA or US territories.  
\*\* NX-3920G only  
Analog measurements made per TIA603. Specifications are measured according to applicable standards.  
Specifications shown are typical and subject to change without notice, due to advancements in technology.

Receiver	NX-3720HG	NX-3820HG	NX-3920G	NX-3921G
Sensitivity	NXDN® 6.25 kHz Digital (3% BER) NXDN® 12.5 kHz Digital (3% BER) DMR 12.5 kHz Digital (5% BER) DMR 12.5 kHz Digital (1% BER) Analog (12dB SINAD)		0.20 µV 0.25 µV 0.30 µV 0.45 µV 0.25 µV	
Selectivity	Analog @ 12.5kHz Analog @ 25kHz	70 dB 80 dB		60 dB 70 dB
Intermodulation	70 dB			
Spurious Rejection	80 dB			
Audio Distortion	2%			
Audio Output Power	4 W/4 Ω			
Transmitter	NX-3720HG	NX-3820HG	NX-3920G	NX-3921G
RF Power Output (High / Mid / Low)	50 W / 30 W / 5 W	45 W / 30 W / 5 W		15 W / 5 W
Spurious Emission	73 dB	75 dB		-70 dB
FM Hum & Noise	Analog @ 12.5kHz Analog @ 25kHz		40 dB 45 dB	
Audio Distortion	2%			
Digital Protocol	ETSI TS 102 361-1, -2, -3, -4			
Emission Designator	16K0F3E*, 14K0F3E**, 11K0F3E, 8K30F1E, 8K30F1D, 8K30F7W, 7K60FXD, 7K60FXE, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D			

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## MIL-STD & IP

MIL Standard	MIL 810C Methods/Procedures	MIL 810D Methods/Procedures	MIL 810E Methods/Procedures	MIL 810F Methods/Procedures	MIL 810G Methods/Procedures
Low Pressure	5001/Procedure I	500.2/Procedure I, II	500.3/Procedure I, II	500.4/Procedure I, II	500.5/Procedure I, II
High Temperature	5011/Procedure I, II	501.2/Procedure I, II	501.3/Procedure I, II	501.4/Procedure I, II	501.5/Procedure I, II
Low Temperature	5021/Procedure I	502.2/Procedure I, II	502.3/Procedure I, II	502.4/Procedure I, II	502.5/Procedure I, II
Temperature Shock	5031/Procedure I	503.2/Procedure I	503.3/Procedure I	503.4/Procedure I, II	503.5/Procedure I
Solar Radiation	5051/Procedure I	505.2/Procedure I	505.3/Procedure I	505.4/Procedure I	505.5/Procedure I
Rain	5061/Procedure I, II	506.2/Procedure I, II	506.3/Procedure I, II	506.4/Procedure I, III	506.5/Procedure I, III
Humidity	5071/Procedure I, II	507.2/Procedure II, III	507.3/Procedure II, III	507.4	507.5/Procedure II
Salt Fog	5091/Procedure I	509.2/Procedure I	509.3/Procedure I	509.4	509.5
Dust	5101/Procedure I	510.2/Procedure I	510.3/Procedure I	510.4/Procedure I, III	510.5/Procedure I
Vibration	514.2/Procedure VIII, X	514.3/Procedure I	514.4/Procedure I	514.5/Procedure I	514.6/Procedure I
Shock	516.2/Procedure I, II, V	516.3/Procedure I, IV, V	516.4/Procedure I, IV, V	516.5/Procedure I, IV, V	516.6/Procedure I, IV, V

### International Protection Standard

Dust & Water Protection\*\*

IP54, IP55\*\*

\*\* Applicable microphone must be connected to the radio, and all accessory connectors must be covered. \*\* IP54: RF Deck; IP55: Remote Control Head.

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