KENWOOD

NEXEDGE®

NX-3720HG/3820HG

VHF/UHF 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. 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 II & Site Roaming
- 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 indicator
- External and Internal Speaker Switching
- Built-In GPS Receiver for effective fleet management
- Built-in Bluetooth® for hands-free operation - Applicable Bluetooth profiles: HSP (Headset Profile provided) and SPP (Serial Port Profile available as an option; availability depends on the model)
- Renowned KENWOOD Audio Quality with Active Noise Reduction (ANR) that utilizes built-in DSP
- 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 Type-C & Gen2 Trunked
- NXDN Conventional
- 6.25 & 12.5 kHz Channels
- All Group Call
- Over-the-Air Alias (OAA)
- Over-the-Air Programming (OTAP)

DIGITAL – DMR MODE

- Complies with ETSI DMR Tier II standards
- Software DES and AES Encryptions for NXDN Conventional/Trunking and DMR Conventional protocols
- 12.5 kHz Two-slot TDMA channels
- Call Interruption
- Dual-slot Direct Mode
- Optional ARC4 Encryption
- Over-the-Air Alias (OAA)

ANALOG - FM MODE

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

Multi-Protocol

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

Gen2

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

Klarity

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

NXDN® DMR Gen2 Bluetooth® GPS FleetSync®

JVCKENWOOD

Accessories

- KMC-9C/59C
  Desktop Microphone

- KMC-35
  Microphone

- KMC-36
  Keypad Microphone

- KES-3S
  External Speaker
  (compact low profile;
  3.5 mm plug)

- KES-5
  External Speaker
  (40 W max input,
  requires KAP-2)

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

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

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

- KLF-2
  Line Filter

- KMB-10
  Key Lock Adapter

- KRA-40G
  GPS Active Antenna

- KCT-73MIC
  Visor Microphone
- KCT-74PTT
  Remote PTT Switch
- KCT-71M2/3/4
  17ft/25ft/1.6ft Remote Control Cable
- KCT-72M
  KCT-73MIC & KCT-74PTT Connection
  cable for KRK-18H
- KPS-15
  DC Power Supply
  (23A max)

- KMB-34
  Mounting Case
  for KPS-15

- KRK-18H
  Control Head Adapter Panel
- KRK-19B
  RF Deck Remote Adapter Panel

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

Specifications

	NX-3720HG	NX-3820HG
GENERAL		
Frequency Range	136-174 MHz	400-470 MHz
Max. Channels Per Radio	Up to 1,000 CH with option	
Number of Channels	512	
Number of Zones	128	
Channel Spacing		
Analog	12.5/15//20/25/30 kHz	12.5/25 kHz
Digital	6.25/12.5 kHz	6.25/12.5 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	±1.0 ppm	
Antenna Impedance	50 Ω	
Dimensions Radio w/Control Head	(W x H x D) Projections Not Included 6.30 x 1.69 x 6.30 in (160 x 43 x 160 mm)	
Weight (net) Radio w/Control Head	2.65 lbs (1.2 kg)	
IC Certification	282F-479200	282F-479301

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.

	NX-3720HG	NX-3820HG
RECEIVER		
Sensitivity		
NXDN® 6.25 kHz Digital (3% BER)	0.20 µV	
NXDN®12.5 kHz Digital (3% BER)	0.25 µV	
DMR 12.5 kHz Digital (5% BER)	0.30 µV	
DMR 12.5 kHz Digital (1% BER)	0.45 µV	
Analog (12dB SINAD)	0.25 µV	
Selectivity		
Analog @12.5 kHz	70 dB	
Analog @ 25 kHz	80 dB	
Intermodulation	70 dB	
Audio Distortion	2 %	
Audio Output Power	4 W/4 Ω	
TRANSMITTER		
RF Power Output (High / Mid / Low)	50 W / 30 W / 5 W	45 W /30 W / 5 W
Spurious Emission	73 dB	75 dB
FM Hum & Noise		
Analog @ 12.5 kHz	45 dB	
Analog @ 25 kHz	40 dB	
Audio Distortion	2%	
Digital Protocol	ETSI TS 102 361-1, -2, -3	
Emission Designator	16K0F3E, 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	500.1/Procedure I	500.2/Procedure I, II	500.3/Procedure I, II	500.4/Procedure I, II	500.5/Procedure I, II
High Temperature	501.1/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	502.1/Procedure I	502.2/Procedure I, II	502.3/Procedure I, II	502.4/Procedure I, II	502.5/Procedure I, II
Temperature Shock	503.1/Procedure I	503.2/Procedure I	503.3/Procedure I	503.4/Procedure I, II	503.5/Procedure I
Solar Radiation	505.1/Procedure I	505.2/Procedure I	505.3/Procedure I	505.4/Procedure I	505.5/Procedure I
Rain	506.1/Procedure I, II	506.2/Procedure I, II	506.3/Procedure I, II	506.4/Procedure I, III	506.5/Procedure I, III
Humidity	507.1/Procedure I, II	507.2/Procedure II, III	507.3/Procedure II, III	507.4	507.5/Procedure II
Salt Fog	509.1/Procedure I	509.2/Procedure I	509.3/Procedure I	509.4	509.5
Dust	510.1/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*	IP54, IP55** (Radio unit)				

**Microphone KMC-35 or KMC-36 must be connected to the radio, and all accessory connectors must be covered.*
***IP54: RF Deck of the mobile radio; IP54/IP55: Remote Control Head of the mobile radio.*

KENWOOD

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