

NEXEDGE

One Radio with Multi-Protocol Support

NX-3720HG/3820HG VHF/UHF TRANSCEIVERS











FleetSync® GP5



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 builtin GPS. And providing 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 future). Additionally, for expansion capability a software license certification system facilitates extensive customization.

PRODUCT HIGHLIGHTS

- Multi-protocol digital radio: Designed to operate under an 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) Note: The number of lines may vary depending on the display language (character set).
- 7-color LED indicator
- External and Internal Speaker Switching
- · Built-in GPS Receiver/Antenna 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 can be achieved with Active Noise Reduction (ANR) that utilizes built-in DSP
- Software DES and AES Encryptions for NXDN Conventional/Trunking and DMR Conventional protocols
- MIL-STD-810 C/D/E/F/G

GENERAL FEATURES

- · Audio Output Power (4 Watts at 4 ohms)
- 512 CH/128 Zones
- Maximum of 1000 CH/Radio with option
- Paging Call
- Emergency Call
- Status/Text Message
- · Remote Stun/Kill/Check

DIGITAL - DMR MODE

- DMR Tier III Trunking
- DMR Tier II Conventional
- · DMR Auto Slot Select
- Site Roaming
- Two-slot TDMA in 12.5 kHz channels
- Call Interruption
- · Dual-slot Direct Mode
- ARC4 Encryption
- · Energy Efficient

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)

ANALOG - FM MODE

- · Conventional & LTR Trunking
- 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, 2-Tone
- Built-in Voice Inversion Scrambler



OPTIONAL ACCESSORIES

 KMC-59C DESKTOP MICROPHONE

• KMC-35/36* MICROPHONE [IP54/55] (without / with 12-keypad)

• KMC-65/66 MICROPHONE [IP54/55] (without / with 12-keypad)



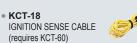
• KES-3 EXTERNAL SPEAKER (compact low profile; 3.5 mm plug)

• KES-5 EXTERNAL SPEAKER (40 W max input, requires KAP-2)

• KCT-23 DC POWER CABLE



• KCT-60 CONNECTION CABLE (D-sub 15 to Molex 15 Pin Connector)



• KLF-2 LINE FILTER









 KRA-40G **GPS ACTIVE** ANTENNA



• KPS-15 DC POWER SUPPLY

 KMB-34 MOUNTING CASE FOR KPS-15 AND MOBILE RADIOS

 KPG-180AP OTAP MANAGER

All accessories and options may not be available in all markets.

Contact an authorized KENWOOD dealer for details and complete list of all accessories and options.

SPECIFICATIONS

GENERAL		NX-3720HG	NX-3820HG		
Frequency Range		136-174 MHz	Type 1: 450-520 MHz Type 2: 400-470 MHz		
Max. Channels per Radio		Up to 1000 channels with option			
Number of Channels		512			
Number of Zones		128			
Channel Spacing	Analog	12.5 / 15 / 25* / 30* kHz	12.5 / 25* kHz		
	Digital	6.25 / 12.5 kHz	6.25 / 12.5 kHz		
Operating Voltage		13.6 V DC +/-15 %			
	Standby	0.45 A			
Current Drain	RX	2.3 A			
	TX	12 A			
Operating Temperature		-22°F to +140°F (-22°F to +140°F (-30°C to +60°C)		
Frequency Stability (-30°C to +60°C; +25°C Ref.)		± 0.5 ppm			
Antenna Impedanc	e	50 Ohms			
Dimensions (W x H x D) Radio with Control Head *Projections not included		6.30 x 1.69 x 6.30 in (160 x 43 x 160 mm)			
Weight (net) Radio with Control Head		2.65 lb (1.2 kg)			
FCC ID	Type 1	K44479200	K44479300		
	Type 2	_	K44479301		
IC Certification	Type 1	282F-479200	_		
	Type 2	_	282F-479301		

RECEIVER		NX-3720HG	NX-3820HG		
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	0.25 μV			
	DMR 12.5 kHz Digital, 1 % BER	0.45 μV			
	Analog, 12 dB SINAD	0.25 μV			
0 1 1: 11	Analog @ 12.5 kHz	70 dB			
Selectivity	Analog @ 25 kHz	80 dB			
Intermodulation		70 dB			
Spurious Rejection		80 dB			
Audio Distortion		2 %			
Audio Output		4 W			
TRANSMITTER		NX-3720HG	NX-3820HG		
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	Analog @ 25 kHz	45 dB			
& Noise	Analog @ 12.5 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			

[&]quot;25 and 30 kHz are not included in the models sold in the USA or US territories.

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.

APPLICABLE MIL-STD & IP*

MIL Standards	Methods / Procedures					
	810C	810D	810E	810F	810G	
Low Pressure	500.1/ I	500.2/ I, II	500.3/ I, II	500.4/ I, II	500.5/ I, II	
High Temperature	501.1/ I, II	501.2/ I, II	501.3/ I, II	501.4/ I, II	501.5/ I, II	
ow Temperature	502.1/ I	502.2/ I, II	502.3/ I, II	502.4/ I, II	502.5/ I, II	
Temp. Shock	503.1/ I	503.2/ I	503.3/1	503.4/ I, II	503.5/ I	
Solar Radiation	505.1/ I	505.2/1	505.3/ I	505.4/ I	505.5/ I	
Rain	506.1/ I, II	506.2/ I, II	506.3/ I, II	506.4/ I, III	506.5/ I, III	
Humidity	507.1/ I, II	507.2/ II, III	507.3/ II, III	507.4	507.5/ II	
Salt Fog	509.1/ I	509.2/ I	509.3/ I	509.4	509.5	
Dust	510.1/ I	510.2/ I	510.3/ I	510.4/ I, III	510.5/ I	
/ibration	514.2/ VIII, X	514.3/ I	514.4/ I	514.5/ I	514.6/ I	
Shock	516.2/ I, II, V	516.3/ I, IV, V	516.4/ I, V	516.5/ I, IV, V	516.6/ I, IV, V	
nternational Protection Standards						
Oust & Water	IP54: RF Deck: IP55: Remote Control Head					

^{*}All interfaces must be fully sealed with appropriate covers or by designated genuine accessories.





[•] The Bluetooth word mark and logos are registered trademarks owned by the Bluetooth SIG, Inc. • NXDN™ is a trademark of JVCKENWOOD Corporation and Icom Inc. • NEXEDGE® is a registered trademark of JVCKENWOOD Corporation. • FleetSync® is a registered trademark of JVCKENWOOD Corporation. • All other trademarks are the property of their respective holders.