

NX-3220/3320

NEXEDGE

NEXEDGE® VHF/UHF MULTI-PROTOCOL DIGITAL & ANALOG PORTABLE RADIOS









This versatile handheld 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. Compact yet designed with durability in mind, it's packed with convenient features like Bluetooth® for hands-free operation and built-in GPS. Three different models are available: Full Keypad model with LCD, Standard Keypad model with LCD and a large 4-way D-pad, and the Basic Model without LCD or keypad. Additionally, for expansion capability a software license certification system facilitates extensive customization.

FEATURE HIGHLIGHTS

- Multi-protocol digital radio: Designed to operate 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
- 5-Line Text Message Frame (3 Lines of Text, icon &
- 7-color Light Bar Indicator on the top panel
- 4-way Directional-pad (D-pad) for intuitive control and operation
- 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)
- 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
- Built-in Motion Sensor (Man-down, Stationary and Motion Detection)
- IP54/55/67 and MIL-STD-810 C/D/E/F/G

GENERAL FEATURES

- 1 Watt Audio Output Power
- UHF: 120 MHz capability
- Available models: Full Keypad (w/ LCD and full keypad), Standard Keypad (w/ LCD and 4-way large D-pad/4 key), and Basic (w/o LCD and keypad)
- 260 CH/128 Zones (64 CH/4 Zones for Basic model)
- Maximum of 1,000 CH/Radio with option
- Intrinsically Safe Option (Future Availability)
- 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
- Two-slot TDMA in 12.5 kHz channels
- Call Interruption
- Dual-slot Direct Mode
- ARC4 Encryption
- Energy Efficient

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



Options



^{*}Future Availability Main Specifications

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.

	NX-3220	NX-3320		
GENERAL	'			
Frequency Range	136-174 MHz	400-520 MHz		
Max. Channels Per Radio	Up to 1000 CH with option 260 (64 for no LCD models)			
Number of Channels				
Number of Zones	128 (4 for no LCD models)			
Channel Spacing				
Analog	12.5/15/25*/30* kHz	12.5/25* kHz		
Digital	6.25kHz/12.5 kHz	6.25kHz/12.5kHz		
Power Supply	7.5V DC ± 20%			
Battery Life	(FDMA/TDMA) 5-5-90			
KNB-55L (1,480 mAh)	Approx. 8 hours	Approx. 9.5 hours		
KNB-56N (1,400 mAh	Approx. 8 hours	Approx. 9 hours		
KNB-57L (2,000 mAh)	Approx. 11 hours	Approx. 13.5 hours		
Operating Temperature	-22°F to +140°F (-30°C to +60°C)			
Frequency Stability	±2.0 ppm	±1.0 ppm		
Dimensions	(W x H x D) Projections Not Included			
Radio Full Keypad Model	2.20 x 4.71 x 1.43 in (56 x 119.6 x 36.4 mm) 2.20 x 4.71 x 1.43 in (56 x 119.6 x 36.4 mm) 2.20 x 4.71 x 1.68 in (56 x 119.6 x 42.7 mm) 2.20 x 4.71 x 1.53 in (56 x 119.6 x 39 mm)			
KNB-55L (1,480 mAh)				
KNB-56N (1,400 mAh)				
KNB-57L (2,000 mAh)				
Weight Radio Full Keypad Model	7.8 oz (2	?20 g)		
KNB-55L (1,480 mAh)	11.1 oz (315 g)		
KNB-56N (1,400 mAh)	14.5 oz (410 g)		
KNB-57L (2,000 mAh)	12.0 oz (340 g)		
FCC ID	K44479000	K44479100		
IC Certification	282F-479000	282F-479100		

*1 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.

	NX-3220	NX-3320	
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	65 dB		
Analog @ 25 kHz	72 dB		
Intermodulation	70 dB		
Spurious Rejection	70 dB		
Audio Distortion	3%		
Audio Output Power	500 mW/8Ω (3% Distortion) / 1,000 mW/8Ω (5% Distortion)		
TRANSMITTER			
RF Power Output (High / Mid / Low)	5 W / 4 W / 1 W		
Spurious Emission	-70 dB		
FM Hum & Noise			
Analog @ 12.5 kHz	40 dB		
Analog @ 25kHz	45 dB		
Audio Distortion	3%		
Digital Protocol	ETSI TS 102 361-1, -2, -	3	
Emission Designator	16K0F3E*, 11K0F3E, 8K30F1E, 8K30F1 7K60FXE, 4K00F1E, 4K00F1D, 4K0		

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Applicable 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	516.4/Procedure I, IV	516.5/Procedure I, IV	516.6/Procedure I, IV
International Protection Standard					
Dust & Water Protection*	IP54/55/67		·		

^{*}Radio must equip 2PIN accessory cover.



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