

NX-3220/3320/3420

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.

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
- 5-Line Text Message Frame (3 Lines of Text, icon & key guide)
- 7-color Light Bar Indicator on the top panel. Individual color can be set for each channel
- 4-way Directional-pad (D-pad) for intuitive control and operation
- Built-In GPS Receiver/Antenna for effective fleet and incident management
- 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
- Optional DES and AES Encryption
- Built-in Motion Sensor (Man-down, Stationary and Motion Detection)
- IP54/55/67 and MIL-STD-810 C/D/E/F/G
- 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
- Paging Call
- Emergency Call
- Status/Text Message
- Remote Stun/Kill/Check

NXDN® DMR Gen2 Bluetooth® GPS FleetSync®

DMR T3 S DMR Auto Slot Select



Full Keypad Model Standard & Basic Models

2-pin Connector.

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

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

Analog – FM Mode

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

KNB-55L/57L/78L

Li-ion Battery Pack (7.4V/1480mAh, 7.4V/2000mAh, 7.4V/2860mAh)



KNB-56N

Ni-MH Battery Pack (7.2 V/1400 mAh)

KNB-79LCM

Li-ion Battery Pack (7.4 V/2860 mAh, Intrinsically Safe)

KBP-5

Battery Case (6 AA)

KSC-25LSK/25SK

Rapid Charger (Li-ion Only/Tri-Chem)

KSC-256AK

Multiple Charger (6-pocket)

KMB-30A

Mounting Bracket (for KSC-256AK)

KVC-23

Vehicular Charger

KRA-22/23

VHF/UHF Low Profile Helical Antenna

KRA-25

High Gain Whip Antenna

KRA-26/ 27

VHF Helical Antenna UHF Whip Antenna

KRA-28

Broadband VHF Whip Antenna

KRA-41/42

VHF/UHF Stubby Antenna

KRA-24

800MHz Whip Antenna

KRA-32K

700/800MHz Whip Antenna

KRA-36

700/800MHz Stubby Antenna

KRA-38K

800/900MHz Whip Antenna (including NX-3400/NX-3420)

KRA-39

900MHz Stubby Antenna

KEP-2

Earphone Kit for KMC-45D (2.5mm plug)

KMC-45D

Speaker Microphone (IP54/55 & TDMA)

KHS-7

Headset (Single Muff Single Muff & In-line PTT / Heavy Duty Behind-the-Head)

KHS-7A

Lightweight Single Muff Headset or KMC-54WD

KHS-8BL

2-wire Palm Mic with Earphone (Black)

KHS-9BL

3-wire Lapel Mic with Earphone (Black)

KHS-10D

Headset (Single Muff Single Muff & In-line PTT Heavy Duty Behind-the-Head)

KHS-22A

Head Set

KHS-26

Head Set (with Ear Bud In-Line PTT / with D-RING IN-LINE PTT)

KHS-27A

Head Set (with D-Ring In-Line PTT)

KHS-31C

Head Set (with C-Ring)

KBH-11

Belt Clip (2.5")

KAS-20

AVL & Dispatch Software

KPG-180AP

OTAP Manager

KLH-206/207

Leather/Nylon Case

Specifications

General	NX-3220	NX-3320	NX-3420
Frequency Range	136-174 MHz	400-520 MHz	TX/RX: 851-870, 935-941 MHz TX: 806-825, 896-902 MHz
Max. Channels Per Radio	Up to 1000 CH with option		
Number of Channels	260 (64 for no LCD models)		
Number of Zones	128 (4 for no LCD models)		
Channel Spacing	Analog 12.5/15/25/30* kHz Digital 6.25 kHz/12.5 kHz	12.5/25* kHz 6.25 kHz/12.5 kHz	12.5/25* kHz 6.25 kHz/12.5 kHz
Power Supply	7.5V DC ± 20%		
Battery Life 5-5-90	(FDMA conventional / Trunking, TDMA Conventional / Trunking)		
KNB-55L (1,480 mAh)	8.5 / 6.5 hours, 12.5 / 9 hours	9 / 7 hours, 12 / 9 hours	8 / 6 hours, 10.5 / 8 hours
KNB-56N (1,400 mAh)	7.5 / 6 hours, 11 / 8 hours	8 / 6 hours, 10.5 / 8 hours	13 / 10 hours, 17 / 13 hours
KNB-57L (2,000 mAh)	12 / 9.5 hours, 17.5 / 13 hours	18.5 / 14 hours, 24 / 18.5 hours	15.5 / 12 hours, 20.5 / 16 hours
KNB-78L (2,860 mAh)	15 / 11.5 hours, 21.5 / 16 hours		
KNB-79LCM (2,860 mAh)			
Operating Temperature	-22°F to +140°F (-30°C to +60°C)		
Frequency Stability	±0.5 ppm (-30°C to +60°C; +25°C Ref.)		
Dimensions	(W x H x D) Projections Not Included		
Radio Only	2.20 x 4.71 x 1.43 in (56 x 119.6 x 36.4 mm)		
KNB-55L (1,480 mAh)	2.20 x 4.71 x 1.43 in (56 x 119.6 x 36.4 mm)		
KNB-56N (1,400 mAh)	2.20 x 4.71 x 1.68 in (56 x 119.6 x 42.7 mm)		
KNB-57L (2,000 mAh)	2.20 x 4.71 x 1.53 in (56 x 119.6 x 39 mm)		
KNB-78L, KNB-79LCM	2.20 x 4.71 x 1.77 in (56 x 119.6 x 44.9 mm)		
Weight Radio Only	78 oz (220 g)		
KNB-55L (1,480 mAh)	111 oz (315 g)		
KNB-56N (1,400 mAh)	14.5 oz (410 g)		
KNB-57L (2,000 mAh)	12.0 oz (340 g)		
KNB-78L, KNB-79LCM	13.6 oz (385 g) / 13.9 oz (395 g)		
FCC ID	K44479000	K44479100	K44502500
IC Certification	282F-479000	282F-479100	282F-502500

*25 and 30 kHz in VHF/UHF Bands (except T-Band) are not included in the models sold in the USA or US territories.
 **800MHz band only
 Analog measurements made per TIA603. Specifications are measured according to applicable standards.
 Battery Life is measured by Battery Save ON, GPS/Bluetooth OFF, 4 W for VHF/UHF and 3 W for 800/900MHz Bands
 Specifications are subject change without notice, due to advancements in technology.

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	5002/Procedure I, II	5003/Procedure I, II	5004/Procedure I, II	5005/Procedure I, II
High Temperature	5011/Procedure I, II	5012/Procedure I, II	5013/Procedure I, II	5014/Procedure I, II	5015/Procedure I, II
Low Temperature	5021/Procedure I	5022/Procedure I, II	5023/Procedure I, II	5024/Procedure I, II	5025/Procedure I, II
Temperature Shock	5031/Procedure I	5032/Procedure I	5033/Procedure I	5034/Procedure I, II	5035/Procedure I
Solar Radiation	5051/Procedure I	5052/Procedure I	5053/Procedure I	5054/Procedure I	5055/Procedure I
Rain	5061/Procedure I, II	5062/Procedure I, II	5063/Procedure I, II	5064/Procedure I, III	5065/Procedure I, III
Humidity	5071/Procedure I, II	5072/Procedure II, III	5073/Procedure II, III	5074	5075/Procedure II
Salt Fog	5091/Procedure I	5092/Procedure I	5093/Procedure I	5094	5095
Dust	5101/Procedure I	5102/Procedure I	5103/Procedure I	5104/Procedure I, III	5105/Procedure I
Vibration	5142/Procedure VIII, X	5143/Procedure I	5144/Procedure I	5145/Procedure I	5146/Procedure I
Shock	5162/Procedure I, II, V	5163/Procedure I, IV	5164/Procedure I, IV	5165/Procedure I, IV	5166/Procedure I, IV

International Protection Standard

Dust & Water Protector*

IP64/55/67

* Audio accessory or cover must be installed.

JVCKENWOOD USA Corporation
 Communications Sector Headquarters
 1440 Corporate Drive | Irving, TX 75038

Order Administration/Distribution
 P.O. BOX 22745, 2201 East Dominguez St., Long Beach, CA 90801-5745
www.kenwood.com/usa

JVCKENWOOD Canada Inc.
 Canadian Headquarters and Distribution
 6070 Kestrel Road, Mississauga, Ontario, Canada L5T 1S8
www.kenwood.com/ca

Kenwood Communications
 Global Website



comms.kenwood.com



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