KENWOOD

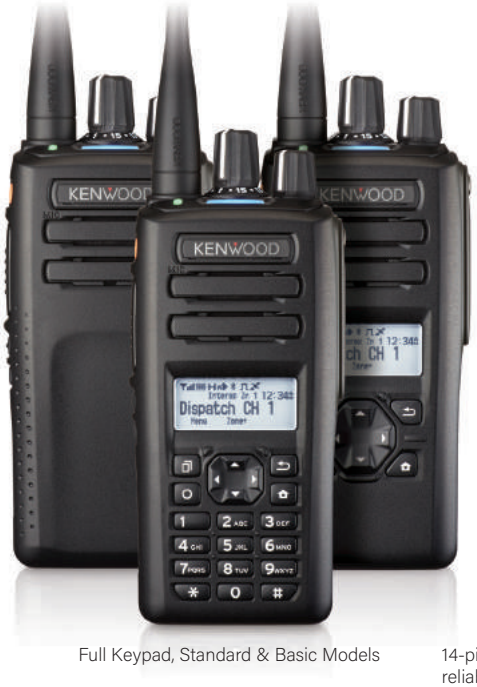
NEXEDGE®

One Radio with Multi-Protocol Support

NX-3200/3300/3400

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 with 14-pin Universal connector 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.



Full Keypad, Standard & Basic Models

7-color Light Bar Indicator

14-pin Universal Connector offers reliable connectivity even in harsh environment with a wide-range of accessories.

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)
IP67 and MIL-STD-810 C/D/E/F/G
1 Watt Audio Output Power
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)
512 CH/128 Zones (64 CH/4 Zones for Basic model)
Maximum of 1,000 CH/Radio with option
CSA Intrinsically Safe Option:
Class I, II, III, Division 1, Groups A,B,C,D,E,F,G. Division 2 Groups A,B,C,D
Paging Call
Emergency Call
Status/Text Message
Remote Stun/Kill/Check

Digital – NXDN® Mode

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

Digital – DMR Mode

Two-slot TDMA in 12.5 kHz channels
DMR Tier 2 Conventional / Site Roaming
DMR Auto Slot Select
DMR Tier 3 Trunking
Call Interruption
Dual-slot Direct Mode
Optional ARC4 Encryption
Energy Efficient
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, DTMF, 2-Tone
Built-in Voice Inversion Scrambler

Multi-Protocol

Unsurpassed interoperability for 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.

Accessories

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

KNB-55LA/57LA/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-79LC
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 VHF
Whip Antenna

KRA-26/ 27
VHF Helical Antenna
UHF Whip Antenna

KRA-28
Broadband VHF
Whip Antenna

KRA-29P
UHF Broadband Antenna
(406-470MHz)

KRA-32K
700/800MHz Whip Anten

KRA-36
700/800MHz Stubby Antenna

KRA-38K
800/900MHz
Whip Antenna
(included with
NX-3400/NX-3420)

KRA-39
900MHz Stubby Antenna

KMC-70
IP68 Immersion,
Compatible with
ANR feature, NXDN/
DMR Speaker Micro-
phone with 3.5mm
Ear jack & 3 Function
Buttons

KMC-72W
IP67 Immersion,
NXDN/DMR Speaker
Microphone with
3.5mm Ear jack & 2
Function Buttons

KMC-70GR
Green, IP68 Immersion,
Compatible with ANR
feature, NXDN/DMR
Speaker Microphone
with 3.5mm Ear jack & 3
Function Buttons

KEP-1
Earphone Kit for
KMC-70/70GR/72W

KBH-11
Belt Clip (2.5")

KAS-20
AVL & Dispatch Software

KPG-180AP
OTAP Manager

Specifications

General	NX-3200	NX-3300	NX-3400
Frequency Range	138-174 MHz	406.1-470 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	512 (64 for no LCD models)		
Number of Zones	128 (4 for no LCD models)		
Channel Spacing			
Analog	12.5/15/25/30 kHz	12.5/25 kHz	12.5/25 kHz
Digital	6.25 kHz/12.5 kHz	6.25 kHz/12.5 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-55LA (1,480 mAh)	8.5 / 6.5 hours, 12.5 / 9 hours		9 / 7 hours, 12 / 9 hours
KNB-56N (1,400 mAh	7.5 / 6 hours, 11 / 8 hours		8 / 6 hours, 10.5 / 8 hours
KNB-57LA (2,000 mAh)	12 / 9.5 hours, 17.5 / 13 hours		13 / 10 hours, 17 / 13 hours
KNB-78L (2,860 mAh)	17.5 / 13.5 hours, 25 / 18.5 hours		18.5 / 14 hours, 24 / 18.5 hours
KNB-79LC (2,860 mAh)	15 / 11.5 hours, 21.5 / 16 hours		15.5 / 12 hours, 20.5 / 16 hours
Operating Temperature	-22ºF to +140ºF (-30ºC to +60ºC)		
Frequency Stability	±0.5 ppm (-30ºC to +60ºC; +25ºC 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-79LC	2.20 x 4.71 x 1.77 in (56 x 119.6 x 44.9 mm)		
Weight Radio Only	7.8 oz (220 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)		
KNB-78L, KNB-79LC	13.6 oz (385 g) / 13.9 oz (395 g)		
IC Certification	282F-479000	282F-479100	282F-502500

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.

Receiver	NX-3200	NX-3300	NX-3400
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 @ 12.5kHz	65 dB		60 dB
Analog @ 25kHz	72 dB		70 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	NX-3200	NX-3300	NX-3400
RF Power Output (High / Mid / Low)	5 W / 4 W / 1 W		3 W / 1 W
Spurious Emission	-70 dB		
FM Hum & Noise			
Analog @ 12.5kHz		40 dB	
Analog @ 25kHz		45 dB	
Audio Distortion	Less than 3%		
Digital Protocol	ETSI TS 102 361-1, -2, -3, -4		
Emission Designator	16K0F3E, 14K0F3E, 11K0F3E, 8K30F1E, 8K30F1D, 8K30F7W, 7K60FXD, 7K60FXE, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D		

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	IP67 and MIL-STD-810 C/D/E/F/G				
CSA Intrinsically Safe	Class I, II, III, Division 1, Groups A,B,C,D,E,F,G. Division 2 Groups A,B,C,D				

JVCKENWOOD Canada Inc.
Canadian Headquarters and Distribution
6685 Millcreek Drive, Unit 8, Mississauga, ON L5N 5M5
www.kenwood.com/ca

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Communications Systems Business Unit
JVCKENWOOD Corporation

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