KENWOOD

DMR

Digital Two-Way Radio

NX-1200/1300

NXDN® DMR DMR Auto Slot Select FleetSync®

MULTI-PROTOCOL DIGITAL & ANALOG PORTABLE RADIOS

A SINGULAR SOLUTION

If you are thinking of harnessing the latest digital protocols – NXDN or DMR – to enhance business efficiency or FM analog for its simplicity, the NEXEDGE NX-1200/1300 radios have you covered. Our singular solution offers the widest selection of two-way radios for everyday use. The model matrix also includes basic and enhanced keypad variations, with or without a high-contrast backlit LCD. Other features include a 7-color LED indicator and the popular KENWOOD 2-pin audio accessory connector. Plus, mixed-mode operation ensures seamless integration with legacy radios while smoothing the onward migration path to digital. But whatever your specific needs, audio quality is what determines clear voice communications – which is why KENWOOD radios are used under the most grueling conditions, like the cockpit of a racing car. Thanks to our extensive experience with professional systems, reliability is second to none. So whatever your radio requirements, KENWOOD's NEXEDGE NX-1200/1300 radios offer a single platform that's right for you.

Full, Standard Keypad & Basic Models

Features

- Multi-protocol digital radio: Designed to operate under NXDN or DMR digital and FM analog protocols
- Choose from direct & intuitive LCD with full keypad, standard keypad or basic enclosures
- Easy visible Display: 8-digit LCD models featuring high-contrast, white backlit LCD
- Large 7-Color LED indicator on the top panel
  - Selective Power-on LED
  - Selective Call Alert LED
  - Battery Level Indication
  - Multi-status function indication
- RF output power 5W both on VHF/UHF
- Mixed Zone - analog and digital
- Renowned KENWOOD Audio Quality: TX/RX audio profile with optimizable digital processor
  - Audio Equalizer: Flat, High, Low
  - Auto Gain Control: On, High, Low, Off
  - Noise Suppressor
  - Microphone type settings
- Multiple Scan Functions; Dual Priority, Single Priority, Single Zone, Multi, Normal Scan
- VOX & PTT –triggered Semi- VOX, Voice-operated TX
- Emergency Function: Customizable Emergency Profile
- Lone Worker
- Max / Min Volume setting & Volume control
- Voice Announcement
- Remote Stun / Kill / Check
- Electronic Serial Number (ESN)
- MIL-STD-810 C/D/E/F/G
- IP-54 and IP55 NX-1200xK,xK2/NX-1300xK4, xK5 Models
- IP-67 NX-1200xK3, NX-1300xK6 Models

Digital – DMR Mode

- TDMA 2-slot 12.5 kHz bandwidth equivalent to 6.25 kHz very narrow bandwidth
- DMR Tier II Conventional Operation
- Site Roaming
- DMR Auto Slot Select
- Dual Slot Direct Mode
- Digital / Analog Mixed mode
- Call Interruption
- Group / Individual Call
- Status / Short data, Paging Call
- Remote Stun / Kill, Monitor, Check & Control
- Enhanced Encryption (ARC4)
- Digital Bit Scrambler
- Late Entry
- Over-the-Air Alias (OAA)

Digital – NXDN® Mode

- FDMA – Very narrow 6.25 kHz & narrow 12.5 kHz bandwidths
- NXDN Conventional Operation
- Site Roaming
- Digital / Analog Mixed mode
- Group / Individual Call
- Status / Short data, Paging Call
- Remote Stun / Kill, Monitor, Check & Control
- Digital Bit Scrambler
- Late Entry
- Over-the-Air Alias (OAA)

Analog – FM

- FM Conventional Operation
- FleetSync: PTT ID, Stun/Revive, Talk back, Selcall
- MDC1200: PTT ID, Radio Inhibit/Uninhibit, Radio check, Emergency
- QT / DQT, DTMF, 2-tone
- Built-in Programmable Voice Inversion Scrambler (per channel)
- Built-in Compander (per channel)

Accessories

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

KNB-29N
1,500mAh/7.2V
Ni-MH Battery Pack

KNB-84L
1,900mAh/7.4V
IP-67 Li-Ion Battery Pack

KVC-22
DC Vehicular
Charger Adapter
(For KSC-35SK Only)

KRA-26/ 27
VHF Helical Antenna
UHF Whip Antenna

KMC-45D
Speaker Microphone

KNB-45L
2,000mAh/7.4V
Li-Ion Battery Pack

KSC-35SK
Fast Charger
For the KNB-45L/69L
84L (3-Hour)

KMB-28A
Six Unit Charger
Adapter
(For six KSC-35SK
chargers)

KRA-28
VHF Broadband
Antenna
(140-174Mhz)

KBH-10
Belt Clip

KNB-69L
2,550mAh/7.4V
Li-Ion Battery Pack

KSC-43K
Dual Chemistry
Fast Charger
For the KNB 29N/45L/69L/84L

KRA-22/23
VHF/UHF Low Profile
Helical Antenna

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

Specifications

General	NX-1200	NX-1300
Frequency Range		
Type 1	138-174 MHz	
Type 2		406.1-470 MHz
Max. Channels per Radio	260 (64 for basic model)	
Number of Zones	128 (4 for basic model)	
Max. Channels per Zone	250 (16 for basic model)	
Channel Spacing		
Analog	30 / 25 / 15 / 12.5 kHz	
Digital	12.5 / 6.25 kHz	
Power Supply	7.5 VDC ±20 %	
Battery Life	DMR	Analog/NXDN
KNB-29N (1500mAh)	Approx. 11 hours	Approx. 8 hours
KNB-45L (2000mAh)	Approx. 14.5 hours	Approx. 11 hours
KNB-69L (2550mAh)	Approx. 19 hours	Approx. 14 hours
KNB-84L (1,900mAh)	Approx 13.7 hours	Approx. 10.5 hours
Operating Temperature (Radio only)*1	-22°F to +140°F (-30°C to +60°C)	
Frequency Stability (-30 to +60°C; +25°C Ref.)	±0.5 ppm	
Antenna Impedance	50 Ω	
Dimensions	(W x H x D) Projections Not Included	
Radio with KNB-29N/45L/84L	2.13 x 4.84 x 1.32 in (54 x 123 x 33.5 mm)	
Radio with KNB-69L	2.13 x 4.84 x 1.48 in (54 x 123 x 37.5 mm)	
Weight	(Basic model)	(Standard and full keypad model)
Radio Only	5.64 oz (160 g)	6.17 oz (175 g)
Radio with KNB-29N/KNB-45L/84L	9.88 oz (280 g)	10.41 oz (295 g)
Radio with KNB-69L	10.41 oz (295 g)	10.93 oz (310 g)
IC Certification	282F-501000*2 / 282F-501001*3	282F-501100*2 / 282F-501102*3

*1 Operating temperature specification for a Li-ion battery is -10°C to +60°C [14°F to +140°F].
*2 Productions before end of May 2021 have this ISED Certification number.
*3 Productions after end of May 2021 have this ISED Certification number.

Analog measurements made per TIA603. Specifications are measured according to applicable standards.
Specifications are subject change without notice, due to advancements in technology.

Receiver	NX-1200	NX-1300
Sensitivity		
NXDN* @ 6.25 kHz Digital (3% BER)	0.18 µV	
NXDN* @ 12.5 kHz Digital (3% BER)	0.22 µV	
DMR* @ 12.5 kHz Digital (1% BER)	0.25 µV	
DMR* @ 12.5 kHz Digital (5% BER)	0.18 µV	
Analog @ 12.5/25 kHz (12 dB SINAD)	0.20 µV / 0.24 µV	
Selectivity		
Analog @ 12.5 / 25 kHz	68 dB / 74 dB	
Intermodulation Distortion	70 dB	
Spurious Rejection	70 dB	
Audio Distortion	7%	
Audio Output Power	1 W / 12 Ω (Internal Output)	

Transmitter	NX-1200	NX-1300
RF Power Output (High / Low)	5 W / 4 W / 1 W	5 / 4 / 1 / 0.25 W
Spurious Emission	-70 dB	
FM Hum & Noise		
Analog @ 12.5 / 25 kHz	40 dB / 45 dB	
Audio Distortion	2%	
DMR Digital Protocol	ETSI TS 102 361-1, -2, -3	
Emission Designator	16K0F3E, 11K0F3E, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D, 7K60FXD, 7K60F7W	

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/Prcedure 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*	IP-54/55 - NX-1200xK,xK2/NX-1300xK4, xK5	To meet IP54/55, the 2-pin connector cover must be connected on the radio, or the locking bracket must be attached to the external speaker microphone.
	IP-54/55/67 - NX-1200xK3/NX-1300xK6	To meet MIL Standard and IP67 specification, the 2-pin connector must be fully sealed with supplied connector cover. IP67 is only applicable when radio is equipped with KNB-84L

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

JQA-1205 091
ISO9001 Registered
Communications Systems Business Unit
JVCKENWOOD Corporation

ADS#13122