KENWOOD

NEXEDGE®

Digital Two-Way Radio

NX-1200NV/1300NU K3/K6

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-1200NV/1300NU radios have you covered. Our singular solution offers the widest selection of two-way radios for everyday use. The model offers full keypad, a high-contrast backlit LCD, and IEC 60529 - IP67 waterproof. 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-1200NV/1300NU radios offer a single platform that's right for you.

Full Keypad Model

Features

Multi-protocol digital radio: Designed to operate under NXDN or DMR digital and FM analog protocols

Direct and intuitive LCD with a full keypad enclosure

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

Front Panel Programming Mode

Electronic Serial Number (ESN)

MIL-STD-810 C/D/E/F/G

IEC 60529 - IP54/55/67*
*Radio must be installed with KNB-84LA

Digital – NXDN™ Mode

FDMA – Very narrow 6.25 kHz & narrow 12.5 kHz bandwidths

NXDN Conventional Operation

Site Roaming

NXDN Type-D Trunking Option

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)

Digital – DMR Mode (Optional)

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)

Accessories

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

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

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

KNB-84LA
1,900mAh/7.4V
Li-Ion Battery Pack
(IEC 60529 - IP67)

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

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

KVC-22
DC Vehicular
Charger Adapter

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

KRA-26/ 27
VHF Helical Antenna
UHF Whip Antenna

KRA-41/42
VHF/UHF
Stubby Antenna

KMC-45D
Speaker Microphone

KHS-26
Earbud In-line
PTT Headset

KHS-27A
D-Ring In-line
PTT Headset

KHS-31C
C-Ring PTT Ear
Hanger Headset

KBH-10
Belt Clip

Specifications

General	NX-1200NV	NX-1300NU
Pre-set Frequencies		
Type 1	136-174 MHz	450-520 MHz
Type 2		400-470 MHz
Max. Channels per Radio	260	
Number of Zones	128	
Max. Channels per Zone	250	
Channel Spacing		
Analog	30*¹ / 25*¹ / 15 / 12.5 kHz	
Digital	12.5 / 6.25 kHz	
Power Supply	7.5 VDC ±20 %	
Battery Life	DMR	Analog/NXDN
KNB-45L/84LA (2000/1900mAh)	Approx. 14.5 hours	Approx. 11 hours
KNB-69L (2550mAh)	Approx. 19 hours	Approx. 14 hours
Operating Temperature(Radio only)*²	-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-45L/84LA	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		
Radio Only	6.35 oz (180 g)	
Radio with KNB-45L/84LA	10.58 oz (300 g)	
Radio with KNB-69L	11.11 oz (315 g)	
FCC ID		
Type 1	K44501001	K44501103
Type 2		K44501102
IC Certification	282F-501001	282F-501102

Receiver	NX-1200NV	NX-1300NU
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-1200NV	NX-1300NU
RF Power Output (High / Low)	5 W / 4 W / 1 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, 7K60FXE	

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*1 25 / 30 kHz in VHF/UHF Bands excluding T-Band are not included in the models sold in the USA or US territories.
*2 Operating temperature specification for a Li-ion battery is -10°C to +60°C [14°F to +140°F].

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.

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*	IEC 60529 - IP54/55/67**

*To meet MIL Standard and IEC 60529 spec, the 2-pin connector has to be fully sealed with supplied connector cover
** IEC 60529 IP67 is only applicable when radio is equipped with KNB-84LA.