

## NX-1200DV/1300DU K3/K6

### MULTI-PROTOCOL DIGITAL & ANALOG PORTABLE RADIOS

**NXDN™** **DMR** **DMR Auto Slot Select** **FleetSync™**

#### 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-1200DV/1300DU 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-1200DV/1300DU 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 – 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)

## 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 Comander (per channel)

## Digital – NXDN™ Mode (Optional)

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)

# Accessories

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

<p><b>KNB-45L</b> 2,000mAh/7.4V Li-Ion Battery Pack</p> 	<p><b>KSC-35SK</b> Fast Charger For the KNB-45L/69L 84LA (3-Hour)</p> 	<p><b>KRA-22/23</b> VHF/UHF Low Profile Helical Antenna</p> 	<p><b>KMC-45D</b> Speaker Microphone</p> 	<p><b>KHS-31C</b> C-Ring PTT Ear Hanger Headset</p> 
<p><b>KNB-69L</b> 2,550mAh/7.4V Li-Ion Battery Pack</p> 	<p><b>KSC-43K</b> Dual Chemistry Fast Charger For the KNB 29N/45L/69L/84LA</p> 	<p><b>KRA-26/ 27</b> VHF Helical Antenna UHF Whip Antenna</p> 	<p><b>KHS-26</b> Earbud In-line PTT Headset</p> 	<p><b>KBH-10</b> Belt Clip</p> 
<p><b>KNB-84LA</b> 1,900mAh/7.4V Li-Ion Battery Pack</p> 	<p><b>KVC-22</b> DC Vehicular Charger Adapter</p> 	<p><b>KRA-41/42</b> VHF/UHF Stubby Antenna</p> 	<p><b>KHS-27A</b> D-Ring In-line PTT Headset</p> 	

# Specifications

General	NX-1200DV	NX-1300DU
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 <sup>1</sup> / 25 <sup>1</sup> / 15 / 12.5 kHz	
Digital	12.5 / 6.25 kHz	
Power Supply		75 VDC ±20 %
Battery Life		
KNB-45L/84LA (2000/1900mAh)	DMR Approx. 14.5 hours	Analog/NXDN Approx. 11 hours
KNB-69L (2550mAh)	Approx. 19 hours	Approx. 14 hours
Operating Temperature(Radio only) <sup>2</sup>	-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

<sup>1</sup> 125 / 30 kHz in VHF/UHF Bands excluding T-Band are not included in the models sold in the USA or US territories.  
<sup>2</sup> 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.

	NX-1200DV	NX-1300DU
Receiver		
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		
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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# 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	500.2/Procedure I, II	500.3/Procedure I, II	500.4/Procedure I, II	500.5/Procedure I, II
High Temperature	5011/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	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
Dust & Water Protection*		** IEC 60529 IP67 is only applicable when radio is equipped with KNB-84LA

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