

NX-1200AV/1300AU

5W VHF/UHF ANALOG PORTABLE RADIOS

NX-1200AV/NX-1300AU is efficient and functional 5W portable radios operate in analog FM. It is packed with features for intuitive operation and excellent performance. The model matrix includes basic and keypad variations, with or without a high-contrast backlit LCD. Other features include a 7-color LED indicator and KENWOOD 2-pin audio accessory connector. If you wish to transition to Digital capability, by purchasing a software option, DMR and Analog or NXDN and Analog mixed operation is available which gives you the freedom and flexibility to migrate at your own pace. All this comes in a tough, compact radio with great value and all weather reliability!

NXDN® **DMR** **DMR Auto Slot Select** **FleetSync®**



Standard Keypad & Basic Models

Features

- Choose from direct & intuitive LCD with 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
- 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 (for Keypad model)
- Electronic Serial Number (ESN)
- MIL-STD-810 C/D/E/F/G
- IP54 and IP55
- Multi-protocol digital radio: Designed to operate under NXDN or DMR digital and FM analog protocols (Optional License required)

Analog – FM

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

Digital – NXDN® Mode (Optional License required)

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

Digital – DMR Mode (Optional License required)

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|---|--|
| TDMA 2-slot 12.5 kHz bandwidth equivalent to 6.25 kHz very narrow bandwidth | Group / Individual Call |
| DMR Tier II Conventional Operation | Status / Short data, Paging Call |
| Site Roaming | Remote Stun / Kill, Monitor, Check & Control |
| DMR Auto Slot Select | Enhanced Encryption (ARC4) |
| Dual Slot Direct Mode | Digital Bit Scrambler |
| Digital / Analog Mixed mode | Late Entry |
| Call Interruption | 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 	KSC-43K Dual Chemistry Fast Charger For the KNB 29N/45L/69L/82LCM 	KRA-26/ 27 VHF Helical Antenna UHF Whip Antenna 	KHS-26 Earbud In-line PTT Headset 	KBH-10 Belt Clip 
KNB-69L 2,550mAh/7.4V Li-Ion Battery Pack 	KVC-22 DC Vehicular Charger Adapter 	KRA-41/42 VHF/UHF Stubby Antenna 	KHS-27A D-Ring In-line PTT Headset 	
KSC-35SK Fast Charger For the KNB-45L/69L 82LCM (3-Hour) 	KRA-22/23 VHF/UHF Low Profile Helical Antenna 	KMC-45D Speaker Microphone 	KHS-31C C-Ring PTT Ear Hanger Headset 	

Specifications

General	NX-1200AV	NX-1300AU
Pre-set Frequencies		
Type 1	136-174 MHz	450-520 MHz
Type 2		400-470 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 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 (2000mAh)	Approx. 14.5 hours (15 hours for Basic model)	Approx. 11 hours (11.5 hours for Basic model)
KNB-69L (2550mAh)	Approx. 19 hours (19.5 hours for Basic model)	Approx. 14 hours (14.5 hours for Basic model)
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	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 keypad model)
Radio Only	5.64 oz (160 g)	6.17 oz (175 g)
Radio with KNB-45L	9.89 oz (280 g)	10.41 oz (295 g)
Radio with KNB-69L	10.41 oz (295 g)	10.93 oz (310 g)
FCC ID		
Type 1	K44501000	K44501101
Type 2		K44501100
IC Certification	282F-501000	282F-501100

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 are subject change without notice, due to advancements in technology.

Receiver	NX-1200AV	NX-1300AU
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-1200AV	NX-1300AU
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
 Dust & Water Protection* IP54/55* To meet IP54/55, the 2-pin connector cover has to be connected on the radio or the locking bracket has to be attached to the external speaker microphone.

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