

## 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!

### 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)

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



Standard Keypad & Basic Models

### 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 Compander (per channel)

### Digital – NXDN™ Mode (Optional License required)

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

### Digital – DMR Mode (Optional License required)

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" / 25" / 15 / 12.5 kHz	
Digital	12.5 / 6.25 kHz	
Power Supply	7.5 VDC ±20 %	
Battery Life		
KNB-45L (2000mAh)	DMR Approx. 14.5 hours (15 hours for Basic model)	Analog/NXDN 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)*3	-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	213 x 484 x 132 in (54 x 123 x 33.5 mm)	
Radio with KNB-69L	213 x 484 x 148 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	9.88 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*3 / K44501001*4	K44501010*3 / K445010103*4
Type 2		K44501000*3 / K445010102*4
IC Certification	282F-501000*3 / 282F-501001*4	282F-501001*3 / 282F-501012*4

\*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].

\*3 Productions before end of May, 2021 have this FCC ID and IC Certification.

\*4 Productions after end of May, 2021 have this FCC ID and IC Certification.

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	5021/Procedure I	502.2/Procedure I, II	502.3/Procedure I, II	502.4/Procedure I, II	502.5/Procedure I, II
Temperature Shock	5031/Procedure I	503.2/Procedure I	503.3/Procedure I	503.4/Procedure I, II	503.5/Procedure I
Solar Radiation	5051/Procedure I	505.2/Procedure I	505.3/Procedure I	505.4/Procedure I	505.5/Procedure I
Rain*	5061/Procedure I, II	506.2/Procedure I, II	506.3/Procedure I, II	506.4/Procedure I, III	506.5/Procedure I, III
Humidity	5071/Procedure I, II	507.2/Procedure II, III	507.3/Procedure II, III	507.4	507.5/Procedure II
Salt Fog	5091/Procedure I	509.2/Procedure I	509.3/Procedure I	509.4	509.5
Dust	5101/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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