

NX-1202AV/1302AU

2W VHF/UHF ANALOG PORTABLE RADIOS

NX-1202AV/NX-1302AU is efficient and functional 2W portable radios operate in analog FM. It is packed with features for intuitive operation and excellent performance. The features include a 7-color LED indicator, KENWOOD 2-pin audio accessory connector, renowned KENWOOD audio quality, multiple scan, lone worker and emergency function. 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

- RF output power 2W both on VHF/UHF
- Large 7-Color LED indicator on the top panel
 - Selective Power-on LED
 - Selective Call Alert LED
 - Battery Level Indication
 - Multi-status function indication
- 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
- 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**®



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.

<p>KNB-45L 2,000mAh/7.4V Li-Ion Battery Pack</p> 	<p>KSC-43K Dual Chemistry Fast Charger For the KNB 29N/45L/69L/82LCM</p> 	<p>KRA-26/ 27 VHF Helical Antenna UHF Whip Antenna</p> 	<p>KHS-26 Earbud In-line PTT Headset</p> 	<p>KBH-10 Belt Clip</p> 
<p>KNB-69L 2,550mAh/7.4V Li-Ion Battery Pack</p> 	<p>KVC-22 DC Vehicular Charger Adapter</p> 	<p>KRA-41/42 VHF/UHF Stubby Antenna</p> 	<p>KHS-27A D-Ring In-line PTT Headset</p> 	
<p>KSC-35SK Fast Charger For the KNB-45L/69L 82LCM (3-Hour)</p> 	<p>KRA-22/23 VHF/UHF Low Profile Helical Antenna</p> 	<p>KMC-45D Speaker Microphone</p> 	<p>KHS-31C C-Ring PTT Ear Hanger Headset</p> 	

Specifications

General	NX-1202AV	NX-1302AU
Pre-set Frequencies Type 1	136-174 MHz	450-520 MHz
Max. Channels per Radio	64	
Number of Zones	4	
Max. Channels per Zone	16	
Channel Spacing Analog Digital	30" / 25" / 15 / 12.5 kHz 12.5 / 6.25 kHz	
Power Supply	7.5 VDC ±20 %	
Battery Life KNB-45L (2000mAh) KNB-69L (2550mAh)	DMR Approx. 18 hours Approx. 23.5 hours	Analog/NXDN Approx. 15 hours Approx. 19.5 hours
Operating Temperature(Radio only)*	-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 Radio with KNB-45L Radio with KNB-69L	(W x H x D) Projections Not Included 2.13 x 4.84 x 1.32 in (54 x 123 x 33.5 mm) 2.13 x 4.84 x 1.48 in (54 x 123 x 37.5 mm)	
Weight Radio Only Radio with KNB-45L Radio with KNB-69L	5.64 oz (160 g) 9.88 oz (280 g) 10.41 oz (295 g)	
FCC ID Type 1	K44501000	K44501101
IC Certification	282F-501000	282F-501000

*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-1202AV	NX-1302AU
Sensitivity NXDN* @ 6.25 kHz Digital (3% BER) NXDN* @ 12.5 kHz Digital (3% BER) DMR* @ 12.5 kHz Digital (1% BER) DMR* @ 12.5 kHz Digital (5% BER) Analog @ 12.5/25 kHz (12 dB SINAD)		0.18 µV 0.22 µV 0.25 µV 0.18 µV 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-1202AV	NX-1302AU
RF Power Output (High / Low)		2W / 1W
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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