KENWOOD

NEXEDGE®

Commercial Two-Way Radio

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!

NXDN™ DMR DMR Auto Slot Select FleetSync®

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)

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 – NXDN™ Mode (Optional License required)

- 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)

Digital – DMR Mode (Optional License required)

- 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

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-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	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. 18 hours	Approx. 15 hours
KNB-69L (2550mAh)	Approx. 23.5 hours	Approx. 19.5 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	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	5.64 oz (160 g)	
Radio with KNB-45L	9.88 oz (280 g)	
Radio with KNB-69L	10.41 oz (295 g)	
FCC ID		
Type 1	K44501000*3 / K44501001*4	K44501101*3 / K44501103*4
IC Certification	282F-501000*3 / 282F-501001*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-1202AV	NX-1302AU
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-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	

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/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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JQA-1205 091
ISO9001 Registered
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ADS#21922 Print in U.S.A.