KENWOOD

# 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)

## 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
- 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 | K44501101 |
| 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-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. |

**JVCKENWOOD USA Corporation**
Communications Sector Headquarters
1440 Corporate Drive | Irving, TX 75038

Order Administration/Distribution
P.O. BOX 22745, 2201 East Dominguez St., Long Beach, CA 90801-5745
**www.kenwood.com/usa**

**JVCKENWOOD Canada Inc.**
Sede central y distribución canadiense
6070 Kestrel Road, Mississauga, Ontario, Canada L5T 1S8
**www.kenwood.com/ca**

KENWOOD Communications Global Website
comms.kenwood.com

JQA-1205 091
ISO9001 Registered
Communications Systems Business Unit
JVCKENWOOD Corporation

ADS#14520 Print in U.S.A.