



- 2W VHF/UHF ANALOG PORTABLE RADIOS

NX-1202AV/1302AU

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)
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Digital – NXDN• Mode (Optional License required)

- FDMA – Very narrow 6.25 kHz & narrow 12.5 kHz bandwidths
- NXDN Conventional Operation

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- 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)
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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)
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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)

SPECIFICATIONS

| General | | NX-1202AV | NX-1303AU |
|-------------------------|--------|-----------------------------|-------------|
| 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 | |
| | Analog | 30*1 / 25*1 / 15 / 12.5 kHz | |

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| Channel Spacing | 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 | | (Basic model) | (Standard keypad model) |
| Radio Only | | 5.64 oz (160 g) | |

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|--------------------|------------------------------------|-------------------|-------------|
| 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 |
| 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 | |

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|----------------------------|------------------------|---|
| 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 |

*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.

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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 | 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 |

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|-----------------------------------|--------------------------|-----------------------|---|------------------------|-----------------------|
| 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. | | |