

KENWOOD

Listen to the Future

NEXEDGE®

NX-200/300

NEXEDGE® VHF/UHF Digital & FM Portable Radios

NXDN®

FleetSync®
by KENWOOD

● GENERAL FEATURES

- 5 W (136-174 MHz) Models
- 5 W (400-470, 450-520 MHz) Models
- 512 CH-GID / 128 Zones
- 12-Key Keypad Models
- Backlit Dot Matrix LCD
- Function/Status LCD Icons
- Date & 12/24 Hour Time Clock
- Transmit/Busy/Call Alert/Warn LED
- On/Off Volume Knob
- 16-Position Mechanical Selector
- 6 Front PF & Menu Keys
- 2 Side PF Keys
- Emergency/AUX Key
- 500 mW Speaker Audio
- Emergency Call Features
- Multi-Language Display
- KMC-47GPS Speaker Mic Option
- KPG-111D Windows® FPU
- Flash Firmware Upgrading
- MIL-STD-810 C/D/E/F/G
- IP54/55 Water & Dust Intrusion
- PC Serial Interface
- SDM Manual Input*¹
- Transparent Data Mode*¹
- Intrinsically Safe Option
- VGS-1 Voice Guide / Voice & GPS Data Storage Option

● DIGITAL – GENERAL

- NXDN® Digital Air Interface
- AMBE+2™ VOCODER
- 6.25 & 12.5 kHz Channels
- Over-the-Air Alias
- Over-the-Air Programming*²
- Paging Call
- Emergency Call
- All Group Call
- Status Messaging*¹
- Remote Stun/Kill*¹
- Remote Check*¹
- Short & Long Data Messages*¹
- GPS Location with Voice*¹
- NXDN® Scrambler Included

● DIGITAL – CONVENTIONAL MODE

- 64 Radio Access Numbers (RAN)
- Individual & Group Selective Call
- Mixed FM/Digital Operation
- Conventional IP Networks
- Site Roaming

● DIGITAL – TRUNKING MODE

- Individual Private Call
- Group Call & Broadcast Call
- Telephone Interconnect*³
- Transmission Trunked Mode*³
- Message Trunked Mode*³
- Call Queuing with Priority*³
- Late Entry (UID & GID)*³
- 4 Priority Monitor ID's*³
- Remote Group Add*¹
- Failsoft Mode

● MULTI-SITE IP NETWORK COMPATIBLE

- 60,000 GIDs / UIDs
- Wide Area Group Call
- Auto Roaming Registration
- Group Registration

● SCAN

- Single / Multi-Zone Scan / List Scan
- Dual Priority Scan (Conventional)

● FM MODES – GENERAL

- 25 & 12.5 kHz Channels
- FleetSync®/II
- DTMF Encode / Decode
- Voice Inversion Scrambler
- Analog Scrambler Board Capability

● FM CONVENTIONAL ZONES

- QT / DQT / Two-Tone
- Call Keys 1-6
- Operator Selectable Tone

● FM LTR® TRUNKED ZONES

- Kenwood LTR® Features

● FleetSync®/II (FM)

- PTT ID Digital ANI
- Selective Call & Group Call
- Status Messaging*¹
- Emergency Status
- Caller ID Display
- Short Text Messages*¹

● MDC-1200

- PTT ID Digital ANI
- Caller ID Display
- Emergency Status
- Radio Check
- Radio Inhibit

*¹ Requires NX subscriber unit PC Serial Interface compatible software application (e.g. Kenwood AVL & Dispatch Messaging software) or hardware (e.g. console).

*² Requires Kenwood OTAP Management software

*³ These trunked features are primarily system programming and operational dependent. Priority Monitor also requires NX subscriber settings.



Options

| | | | |
|---|--|---|--|
| <p>■ KNB-47L Li-Ion Battery (1950mAh)</p>  | <p>■ KMC-41 Heavy Duty Speaker Microphone with Noise-cancelling</p>  | <p>■ KEP-1 Heavy Duty Earphone</p>  | <p>■ KHS-15-OH Heavy Duty Over-the-Head Headset</p>  |
| <p>■ KNB-48L Li-Ion Battery (2550mAh)</p>  | <p>■ KMC-42W IP67 Heavy Duty Speaker Microphone with Noise-cancelling</p>  | <p>■ KHS-11BL 2-Wire Palm Mic with Earphone</p>  | <p>■ KRA-22/23 VHF/UHF Helical Antenna</p>  |
| <p>■ KBP-7 Battery Case</p>  | <p>■ KMC-47GPS GPS Speaker Microphone</p>  | <p>■ KHS-12BL 3-Wire Mini Lapel Mic with Earphone</p>  | <p>■ KRA-26/27 VHF Helical Antenna UHF Whip Antenna</p>  |
| <p>■ KSC-32 Tri-Chemistry Rapid Rate Charger</p>  | <p>■ VGS-1 Voice Guide and Storage Unit</p>  | <p>■ KHS-14 Lightweight Single Muff Headset</p>  | <p>■ KBH-11 Belt Clip</p>  |

All accessories and options may not be available in all markets. Contact an authorized Kenwood dealer for details and complete list of all accessories and options.

Main Specifications

| | | NX-200 | NX-300 |
|-----------------------------|--|--|----------------------------------|
| GENERAL | | | |
| Frequency Range | Type 1 Type 2 | 136-174 MHz | 450-520 MHz 400-470 MHz |
| Number of Channels | | 512 | |
| Zones | | 128 | |
| Max. Channels per Zone | | 250 | |
| Channel Spacing | Analog Digital | 12.5 / 15 / 25 / 30 kHz 6.25 / 12.5 kHz | 12.5 / 25 kHz 6.25 / 12.5 kHz |
| Operating Voltage | | 7.5V DC ± 20% | |
| Battery Life (with KNB-48L) | 5-5-90 10-10-80 | More than 14.5 hours More than 9.0 hours | |
| Operating Temperature Range | | -30° C to +60° C (-22° F to +140° F) | |
| Frequency Stability | | ± 2.0 ppm | ± 1.0 ppm |
| Antenna Impedance | | 50 Ω | |
| Dimensions (W x H x D) | Projections not included Radio only with KNB-47L with KNB-48L | 58 x 127.5 x 41.3 mm 58 x 127.5 x 41.3 mm 58 x 127.5 x 48.5 mm | |
| Weight (net) | Radio only with KNB-47L with KNB-48L | 260 g 375 g 405 g | |

| | | NX-200 | NX-300 |
|----------------------------|--|---|--------|
| RECEIVER | | | |
| Sensitivity | Digital @ 6.25kHz (3% BER) Digital @ 12.5kHz (3% BER) Analog (12 dB SINAD) | 0.20 μV 0.25 μV 0.25 μV | |
| Selectivity | Analog @ 25 kHz Analog @ 12.5 kHz | 72 dB 65 dB | |
| Intermodulation Distortion | Analog | 70 dB (±50, 100 kHz) | |
| Spurious Response | Analog | 70 dB | |
| Audio Distortion | | Less than 3% | |
| Audio Output | | 500 mW / 8 Ω | |
| TRANSMITTER | | | |
| RF Power Output | | 5 W / 1 W | |
| Spurious Response | | 70 dB | |
| FM Hum & Noise | Analog @ 25 kHz Analog @ 12.5 kHz | 45 dB 40 dB | |
| Audio Distortion | | Less than 3% | |
| Modulation | | 16K0F3E, 11K0F3E, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D | |

Analog measurements made per TIA/EIA 603 and specifications shown are typical. Kenwood reserves the right to change specifications without prior notice or obligation.

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LTR[®] is a registered trademark of Transcript International.
AMBE+2[™] is a trademark of Digital Voice Systems Inc.
Windows[®] is a registered trademark of Microsoft Corporation.
NXDN[®] is a registered trademark of Kenwood Corporation and Icom Inc.
NEXEDGE[™] is a trademark of Kenwood Corporation in U.S.A. and some countries.

Applicable 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 | | | | |

Listen to the Future

Kenwood has always connected with people through sound. Now we want to expand the world of sound in ways that only Kenwood can, listening to our customers and to the pulse of the coming age as we head toward a future of shared discovery, inspiration and enjoyment.

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