

NEXEDGE®

NX-200/300

NEXEDGE® VHF/UHF Digital & FM Portable Radios

NXDN®

FleetSync®

● 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
- 14 Character Alphanumeric Aliases
- 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
- AES / DES Encryption Options

● 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

| | | | |
|--|--|---|---|
| <ul style="list-style-type: none"> ■ KNB-47L Li-Ion Battery (1950mAh) ■ KNB-48L Li-Ion Battery (2550mAh) ■ KBP-7 Battery Case ■ KSC-32 Tri-Chemistry Rapid Rate Charger ■ KSC-326 Multiple Charger | <ul style="list-style-type: none"> ■ KMC-41 Heavy Duty Speaker Microphone with Noise-cancelling ■ KMC-42W IP67 Heavy Duty Speaker Microphone with Noise-cancelling ■ KMC-47GPS GPS Speaker Microphone ■ VGS-1 Voice Guide and Storage Unit | <ul style="list-style-type: none"> ■ KEP-1 Heavy Duty Earphone ■ KHS-11BL 2-Wire Palm Mic with Earphone ■ KHS-12BL 3-Wire Mini Lapel Mic with Earphone ■ KHS-14 Lightweight Single Muff Headset | <ul style="list-style-type: none"> ■ KHS-15-0H Heavy Duty Over-the-Head Headset ■ KRA-22/23 VHF/UHF Helical Antenna ■ KRA-26/27 VHF Helical Antenna UHF Whip Antenna ■ KBH-11 Belt Clip |
|--|--|---|---|

All accessories and options may not be available in all markets. Contact our authorized 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 | 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 | 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. Specifications are subject to change without notice, due to advancements in technology.

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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 JVC KENWOOD Corporation and Icom Inc.

NEXEDGE® is a registered trademark of JVC 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 | | | | |

JVC KENWOOD Corporation

Professional Systems Business Group
Communications Equipment Division

1-16-2 Hakusan, Midori-ku, Yokohama-shi, Kanagawa, 226-8525 Japan

www.jvckenwood.co.jp/en

http://hexedge.kenwood.com



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Communications Equipment Division
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