

NX-200/300

NEXEDGE® VHF/UHF Digital & FM Portable Radios

NXDN®

FleetSync®
by KENWOOD

5-tone

● GENERAL FEATURES

- 5 W (136-174 MHz) Models
- 5 W (400-470 MHz) Models
- Meets ETSI EN Standards
- 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
- Lone Worker
- Multi-Language Display
- KMC-47GPS Speaker Mic Option
- KPG-111D Windows® FPU
- Flash Firmware Upgrading
- MIL-STD-810 C/D/E/F/G
- IP54/55/67 Water & Dust Intrusion
- PC Serial Interface
- SDM Manual Input*1
- Transparent Data Mode*1
- 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
- Failsafe 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, 20 & 12.5 kHz Channels
- FleetSync®/II
- DTMF Encode / Decode
- Voice Inversion Scrambler
- Analogue Scrambler Board Capability

● FM CONVENTIONAL ZONES

- QT / DQT / Two-Tone
- 5-Tone Encode / Decode
- Call Keys 1-6
- Operator Selectable Tone
- Voting

● 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"> KVC-21 Vehicular Charger KEP-1 Heavy Duty Earphone KHS-11BL 2-Wire Palm Mic with Earphone KHS-12BL 3-Wire Mini Lapel Mic with Earphone | <ul style="list-style-type: none"> KHS-14 Lightweight Single Muff Headset 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 |
|--|---|---|--|

*VGS-1 should be installed by Kenwood authorized service center for a proper activation of the IP67 water and dust protection.

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 | 136-174 MHz | 400-470 MHz |
| Number of Channels | 512 | |
| Zones | 128 | |
| Max. Channels per Zone | 250 | |
| Channel Spacing | Analogue Digital | 12.5 / 20 / 25 kHz 6.25 / 12.5 kHz |
| Operating Voltage | 7.5 V DC ± 20% | |
| Battery Life (with KNB-48L) | 5-5-90 | More than 14.5 hours |
| | 10-10-80 | More than 9.0 hours |
| Operating Temperature Range | -30° C to +60° C | |
| Frequency Stability | ± 2.0 ppm | ± 1.0 ppm |
| Antenna Impedance | 50 Ω | |
| Dimensions (W x H x D) <small>Projections not included</small> | | |
| | Radio only | |
| | with KNB-47L | |
| | with KNB-48L | |
| Weight (net) | 260 g | |
| | 375 g | |
| | 405 g | |
| Applicable Standards | ETSI R & TTE | |
| | EN 300 086, EN 300 113, EN 300 219, EN 301 489, EN 301 166 | |
| | ETSI Safety | |
| | EN 60065, EN 60950-1, EN 60215 | |

FleetSync® is a registered trademark of Kenwood Corporation.
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 registered trademark of Kenwood Corporation.

| | NX-200 | NX-300 |
|---|---|---|
| RECEIVER | | |
| Sensitivity (Analogue) | EIA 12dB SINAD (25kHz/20kHz/12.5kHz) | 0.28 μV / 0.28 μV / 0.32 μV |
| | EN 20dB SINAD | -3 dB μV (0.35 μV) / -3 dB μV (0.35 μV) / -1 dB μV (0.45 μV) |
| Sensitivity (Digital) | 3% BER (12.5kHz/6.25kHz) | 0.32 μV / 0.25 μV |
| | 1% BER | -1 dB μV (0.45 μV) / -4 dB μV (0.32 μV) |
| Adjacent Channel Selectivity (Analogue) | (25kHz/20kHz/12.5kHz) | 76 dB / 74 dB / 68 dB |
| Intermodulation (Analogue) | | 65 dB |
| Spurious Response Rejection (Analogue) | | 75 dB |
| Audio Distortion | | Less than 3% |
| Audio Output | | 500 mW / 8 Ω |
| TRANSMITTER | | |
| RF Power Output | High / Low | 5 W / 1 W |
| Modulation Limiting (Analogue) | | ± 5.0 kHz at 25 kHz ± 4.0 kHz at 20 kHz ± 2.5 kHz at 12.5 kHz |
| Spurious Emission | | -36 dBm ≤ 1 GHz, -30 dBm > 1 GHz |
| FM Noise (EIA) | (Analogue, 25 kHz / 20 kHz / 12.5 kHz) | 45 dB / 45 dB / 40 dB |
| Modulation Distortion | | Less than 3% |
| Microphone Impedance | | 1.8 kΩ |
| Modulation | | 16K0F3E, 14K0F3E, 14K0F2D, 12K0F2D, 8K50F3E, 7K50F2D, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D |

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

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 |
| Immersion | - | - | - | 512.4/Procedure I | 512.5/Procedure I |
| International Protection Standard | | | | | |
| Dust & Water Protection | IP54/55/67 | | | | |

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.

Kenwood Electronics UK Limited
12 Priestley Way, London, NW2 7BA, United Kingdom
www.kenwood-electronics.co.uk
http://nexedge.kenwood.com



www.purcellradio.com
info@purcellradio.com
+44 (0)20 7739 8060



ISO9001 Registered
Communications Equipment Division
Kenwood Corporation
ISO9001 certification