

KENWOOD

Listen to the Future

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NEXEDGE®

NX-220/320

NEXEDGE® VHF/UHF Digital & Analog Portable Radios

NXDN® FleetSync®

● GENERAL FEATURES

- 5 W (136-174 MHz) Models
- 5 W (400-470, 450-520 MHz) Models
- 260 CH-GID / 128 Zones
- 64 CH-GID / 4 Zones (Non Display Version)
- 12-Key Keypad Models
- 8 Character Alphanumeric Aliases
- Backlit LCD & Keys
- Function/Status LCD Icons
- Transmit/Busy/Call Alert/Warn LED
- On/Off Volume Knob
- 16-Position Mechanical Selector
- 4 Front PF Keys
- 3 Side PF Keys
- Emergency/AUX Key
- Built-in Motion Sensor
- 500 mW Speaker Audio
- Zone/CH# Voice Announcement
- KMC-48GPS Speaker Mic Option
- KPG-141D Windows® FPU
- Flash Firmware Upgrading
- MIL-STD-810 C/D/E/F/G
- IP54/55 Water & Dust Intrusion
- PC Serial Interface
- SDM Manual Input¹
- Transparent Data Mode¹

● DIGITAL – GENERAL

- NXDN® Digital Air Interface
- AMBE+2™ VOCODER
- 6.25 & 12.5 kHz Channels
- Over-the-Air Alias
- Over-the-Air Programming
- Paging Call
- Emergency Call
- All Group Call
- Status Messaging^{1,2}
- Remote Stun/Kill¹
- Remote Check¹
- Short & Long Data Messages¹
- GPS Location with Voice¹
- NXDN® Scrambler Included

● MULTI-SITE IP NETWORKS COMPATIBLE

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

● SCAN

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

● ANALOG MODES – GENERAL

- 12.5 & 25* kHz Channels
- Conventional & LTR® Zones
- FleetSync®/II, MDC-1200, DTMF³
- QT/DQT/Two-Tone (Conventional Zones Only)³
- Voice Inversion Scrambler (16 Codes)

● FleetSync®/II

- PTT ID ANI / Caller ID³
- Selective / Group Call³
- Emergency, Status & Text Messages¹

● MDC-1200

- PTT ID ANI / Caller ID³
- Emergency, Radio Check & Inhibit

● DIGITAL – CONVENTIONAL MODE

- 64 Radio Access Numbers (RAN)
- Individual & Group Selective Call³
- Mixed FM/Digital Operation
- Conventional IP Networks
- Site Roaming

● DIGITAL – TRUNKING MODE

- Individual Private Call
- Group Call & Broadcast Call
- Telephone Interconnect
- Transmission Trunked Mode⁴
- Message Trunked Mode⁴
- Call Queuing with Priority⁴
- Late Entry (UID & GID)⁴
- 4 Priority Monitor ID's⁴
- Remote Group Add¹
- Failsoft Mode

Three Models Available:
Basic Unit: No LCD, No Front Keys
8-Character LCD, 4 PF Keys
8-Character LCD, 4 PF Keys, 12-Key DTMF:PF Keypad
(Not Actual Size)



Options

| | | | |
|--|---|--|---|
| <ul style="list-style-type: none"> KNB-55L Li-ion Battery Pack (1,480mAh) KNB-56N Ni-MH Battery Pack (1,400mAh) KNB-57L Li-ion Battery Pack (2,000mAh)  | <ul style="list-style-type: none"> KRA-22 VHF Low Profile Helical Antenna KRA-23 UHF Low Profile Helical Antenna KRA-26 VHF Helical Antenna KRA-27 UHF Whip Antenna     | <ul style="list-style-type: none"> KMC-48GPS GPS Speaker Microphone KEP-2 Earphone Kit for KMC-45 (2.5mm plug) KHS-22 Head Set KVC-3 Regular Rate Vehicular Charger Adapter (for KSC-30) KVC-4 Rapid Rate Vehicular Charger Adapter (for KSC-25)     | <ul style="list-style-type: none"> KHS-7A Lightweight Single Muff Headset KHS-8BL 2-wire Palm Mic with Earphone (Black) KHS-9BL 3-wire Lapel Mic with Earphone (Black) KLH-179 Leather Case KLH-180 Nylon Case KBH-12 Belt Clip       |
| <ul style="list-style-type: none"> KBP-5 Battery Case KSC-25 Rapid Charger KSC-30 Regular Charger for KNB-56N KSC-256K Six Unit Gang Charger     | | | |

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-220 | NX-320 |
|--|-------------------|--|-----------------------------------|
| GENERAL | | | |
| Frequency Range | Type 1 Type 2 | 136-174 MHz | 450-520 MHz 400-470 MHz |
| Number of Channels | w/LCD Model | 260 | |
| | w/o LCD Model | 64 | |
| Zones | w/LCD Model | 128 | |
| | w/o LCD Model | 4 | |
| Max. Channels per Zone | w/LCD Model | 250 | |
| | w/o LCD Model | 16 | |
| Channel Spacing | Analog Digital | 12.5 / 15 / 25* / 30* kHz | 12.5 / 25* kHz 6.25 / 12.5 kHz |
| Operating Voltage | | 7.5V DC ± 20% | |
| Battery Life 5-5-90 | KNB-55L (1480) | Approx. 8.5 hours | |
| | KNB-56N (1400) | Approx. 8.5 hours | |
| | KNB-57L (2000) | Approx. 11.5 hours | |
| | | Approx. 11.5 hours | |
| Operating Temperature Range** | | -22° F to +140° F (-30° C to +60° C) | |
| Frequency Stability | | ± 2.0 ppm ± 1.0 ppm | |
| Antenna Impedance | | 50 Ω | |
| Dimensions (W x H x D) Projections not included | with KNB-55L | 2.28 x 4.48 x 1.14 in (56 x 114 x 29.1 mm) | |
| | with KNB-56N | 2.28 x 4.48 x 1.33 in (56 x 114 x 33.8 mm) | |
| | with KNB-57L | 2.28 x 4.48 x 1.18 in (56 x 114 x 30.1 mm) | |
| Weight (net) | with KNB-55L | 11.29 oz (320 g) | |
| | with KNB-56N | 14.81 oz (420 g) | |
| | with KNB-57L | 12.34 oz (350 g) | |
| | | 12.34 oz (350 g) | |
| FCC ID | Type 1 | Pending*** | |
| | Type 2 | Pending*** | |
| IC Certification | Type 1 | Pending | |
| | Type 2 | Pending | |

| | | NX-220 | NX-320 |
|----------------------------|-----------------------------|---|--------|
| RECEIVER | | | |
| Sensitivity | Digital @ 6.25 kHz (3% BER) | 0.20 μV | |
| | Digital @ 12.5 kHz (3% BER) | 0.25 μV | |
| | Analog (12 dB SINAD) | 0.25 μV | |
| Selectivity | Analog @ 25 kHz | 72 dB | |
| | Analog @ 12.5 kHz | 65 dB | |
| Intermodulation Distortion | Analog | 70 dB | |
| 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 | 45 dB | |
| | Analog @ 12.5 kHz | 40 dB | |
| Audio Distortion | | Less than 3% | |
| Modulation | | 16K0F3E, 11K0F3E, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D | |

Analogue measurements made per TIA/EIA 603 and specifications shown are typical. Kenwood reserves the right to change specifications without prior notice or obligation.
 * 25 kHz is for sale in the USA and the US territories.
 ** Operating temp. range of the KNB-55L/57L: -10°C to +60°C
 *** This device has not been authorized as required by the rules of the Federal Communications Commission. This device is not, and may not be, offered for sale or lease, or sold or leased, until authorization is obtained.
 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.

footnotes from Front:
 1 Requires NX subscriber unit PC Serial Interface compatible software application (e.g Kenwood AVL & Dispatch Messaging software) or hardware (e.g. console).
 2 Non Display Model- Pre-programmed key operation.
 3 Non Display Model- Some screen/key-based functions are not available.
 4 These trunked features are primarily system programming and operational dependent. Priority Monitor also requires NX subscriber settings.

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 | | | | |

*To meet MIL810 and IP grade, the 2-pin connector has to be connected.

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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