

KENWOOD

Listen to the Future

NEXEDGE®

NX-900

NEXEDGE® 800 MHz Digital & Analog Mobile Radio

NXDN®

FleetSync®
by KENWOOD

● GENERAL FEATURES

- 15W (806-870 MHz) Model
- 512 CH-GID / 128 Zones
- Dash & Remote Mount
- 14 Character Alphanumeric Aliases
- Backlit Dot Matrix LCD
- Function/Status LCD Icons
- Multi-Language Display
- Date & 12/24 Hour Time Clock
- Transmit/Busy/Call Alert/Warn LED
- On/Off Power Control
- 4 Up/Down Selectors
- 6 Front PF Keys
- Emergency/AUX Key
- 4W Speaker Audio
- DB-25 Accessory Connector
- 9 Programmable AUX I/Os
- 2 Programmable AUX Outputs
- 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 Input¹
- Transparent Data Mode¹
- GPS Receiver 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
- Paging Call
- Emergency Call
- All Group Call
- Status Messaging¹
- Remote Stun/Kill¹
- Remote Check¹
- Short & Long Data Messages¹
- GPS Location with Voice¹
- 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
- Transmission Trunked Mode²
- Message Trunked Mode²
- Call Queuing with Priority²
- Late Entry (UID & GID)²
- 4 Priority Monitor ID's²
- Remote Group Add¹
- Failsoft Mode

● 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
- Dual Priority Scan (Conventional)

● ANALOG MODES - GENERAL

- 25 & 12.5 kHz Channels
- NPSPAC Channels
- Conventional & LTR® Zones
- FleetSync®/II, MDC-1200, DTMF
- QT / DQT (Conventional Zones Only)
- Voice Inversion Scrambler
- Analog Scrambler Board Capability

● FleetSync®/II (FM)

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

● MDC-1200

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

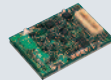


Options

KMC-35
Microphone



VGS-1
Voice Guide
& Storage Unit



KAP-2
Horn Alert
/ PA Relay Unit



KCT-46
Ignition Sense Cable



KMC-36
Microphone
with Keypad



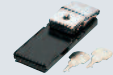
KRK-10
Panel Remote Kit



KCT-23M
DC Cable (10 feet)



KMB-10
Key Lock Adapter



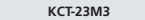
KMC-9C
Control Station
Desktop Microphone



KPS-15
DC Power Supply



KCT-23M3
DC Cable (23 feet)



KLF-2
Line Noise Filter



Main Specifications

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.

| | | NX-900 |
|------------------------------------|--------------------------|---|
| GENERAL | | |
| Frequency Range | Receive | 851-870 MHz |
| | Transmit | 806-825, 851-870 MHz |
| Number of Channels | | 512 |
| Zones | | 128 |
| Max. Channels per Zone | | 250 |
| Channel Spacing | Analog | 12.5 / 25 kHz |
| | Digital | 6.25 / 12.5 kHz |
| Operating Voltage | | 13.6 V DC \pm 15% |
| Operating Temperature Range | | -22° F to +140° F (-30° C to +60° C) |
| Frequency Stability | | \pm 1.0 ppm |
| Antenna Impedance | | 50 Ω |
| Dimensions (W x H x D) | Projections not included | 6.30 x 1.77 x 6.18 in (160 x 45 x 157 mm) |
| Weight (net) | | 3.08 lb (1.40 kg) |
| FCC ID | | K44409300 |
| IC Certification | | 282F-409300 |

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

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-900 |
|---------------------------|------------------------------------|--|
| RECEIVER | | |
| Sensitivity | Digital @ 6.25 kHz (3% BER) | 0.20 μ V |
| | Digital @ 12.5 kHz (3% BER) | 0.28 μ V |
| | Analog (12 dB SINAD) | 0.25 μ V |
| Selectivity | Analog @ 25 kHz | 75 dB |
| | Analog @ 12.5 kHz | 68 dB |
| Intermodulation | Analog | 78 dB (\pm 50, 100 kHz) |
| Spurious Response | Analog | 80 dB |
| Audio Distortion | | Less than 3% |
| Audio Output | | 4 W / 4 Ω |
| TRANSMITTER | | |
| RF Power Output | | 15 W to 5 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, 14K0F3E, 11K0F3E, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D |

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 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, III, V | 516.3/Procedure I, IV, V | 516.4/Procedure I, IV, V | 516.5/Procedure I, IV, V | 516.6/Procedure I, IV, V |
| International Protection Standard | | | | | |
| Dust & Water Protection | IP54: Radio itself | | | | |
| | IP54/55: Remote head with KRK-10 | | | | |

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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