

KENWOOD

Listen to the Future

NEXEDGE™

NX-700(H)/800(H)

NEXEDGE™ VHF/UHF Digital & FM Mobile Radios

NXDN®

FleetSync®
by KENWOOD

● GENERAL FEATURES

- 30W / 50W (136-174 MHz) Models
- 30W / 45W (400-470, 450-520 MHz) Models
- 512 CH-GID / 128 Zones
- Dash & Remote Mount
- 14 Character Alphanumeric Aliases
- Backlit Dot Matrix LCD
- 3-Digit Sub-Display
- Function/Status LCD Icons
- RSSI Indicator
- 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
- Emergency Call Features
- Lone Worker
- Multi-Language Display
- Programmable TX/RX Indication (On/Off)
- Special Alert Tone Patterns
- Time Out Timer
- Busy Channel Lockout
- DB-25 Accessory Connector
- 9 Programmable AUX I/Os
- 2 Programmable AUX Outputs
- Ignition Sense
- Public Address / Horn Alert Option
- MIL-Spec Standard Mic
- MIL-Spec 12-Key DTMF Mic Option
- KPG-111D Windows® FPU
- Flash Firmware Upgrading
- Front Panel Test & Tune
- Cloning
- MIL-STD-810 C/D/E/F
- MIL-STD "Driven-Rain"
- IP-54/55 Water & Dust Intrusion
- Easy Option Port
- PC Serial Interface
- SDM Manual Input¹
- Transparent Data Mode¹
- GPS Receiver Option
- VGS-1 Voice Guide / Voice & GPS Data Storage Option

● DIGITAL – COMMON

- 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 (Conventional: per CH)

● DIGITAL CONVENTIONAL MODE

- 64 Radio Access Numbers (RAN)
- DTMF (Encode/Decode)
- Individual & Group Selective Call
- Mixed FM/Digital Operation

● DIGITAL TRUNKING MODE

- Individual Private Call
- Group Call
- Broadcast Call
- Transmission Trunked Mode²
- Message Trunked Mode²
- Call Queuing with Priority²
- Call Queue Pre-emption²
- Late Entry (UID & GID)²
- 4 Priority Monitor ID's²
- Remote Group Add¹
- Failsoft Mode
- Multi-Site IP Network Compatible

● SCAN

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

● FM MODES - GENERAL

- 25 & 12.5 kHz Channels
- FleetSync®/II
- DTMF Encode/Decode
- Companded Audio
- Voice Inversion Scrambler
- Encryption/ANI Board Control

● FM CONVENTIONAL ZONES

- QT / DQT
- Two-Tone Decode
- Single/Two-Tone Encode
- Call Key 1-6
- Operator Selectable Tone

● FM LTR® TRUNKED ZONES

- Kenwood LTR® Features

● FleetSync®/II (FM)

- PTT ID Digital ANI
- Selective Call & Group Call
- Status Messaging¹
- Emergency Status
- Caller ID Display
- Short Text Messages¹
- Power On/Off Status Messages¹
- Input/Output Status Messages¹
- Send/Display GPS¹
- PTT ID & Emergency GPS Reporting¹
- Status Message Block GPS Reporting¹
- Ignition On/Off GPS Reporting¹



Options

KMC-35
Microphone



KMC-36
Microphone with Keypad



KMC-9C
Control Station
Desktop Microphone



KES-5
External Speaker



VGS-1
Voice Guide
& Storage Unit



KRK-10
Panel Remote Kit



KPS-15
DC Power Supply



KAP-2
Horn Alert
/ PA Relay Unit



KCT-23M
DC Cable (10 feet)



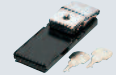
KCT-23M3
DC Cable (23 feet)

KCT-23M3

KCT-46
Ignition Sense Cable



KMB-10
Key Lock Adapter



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.

| GENERAL | | NX-700(H) K | NX-800(H) K |
|------------------------------------|--|--|--|
| 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 | | 13.6 V DC ± 15% | |
| Operating Temperature Range | | -22° F to +140° F (-30° C to +60° C) | |
| Frequency Stability | | ± 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) | | 3.04 lb (1.38 kg) | |
| FCC ID | K Type 1 K Type 2 HK Type 1 HK Type 2 | K44378600 K44378701 K44378601 | K44378700 K44378701 K44378702 K44378703 |
| IC Certification | K Type 1 K Type 2 HK Type 1 HK Type 2 | 282F-378600 282F-378701 282F-378601 | 282F-378700 282F-378701 282F-378702 282F-378703 |

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 trademark of Kenwood Corporation and Icom Inc.
NEXEDGE™ is a trademark of Kenwood Corporation.

| RECEIVER | | NX-700(H) K | NX-800(H) K |
|---------------------------|---|--|--|
| Sensitivity | Digital @ 6.25 kHz (3% BER) Digital @ 12.5 kHz (3% BER) Analog (12 dB SINAD) | 0.20 μV 0.28 μV 0.25 μV | 0.20 μV 0.28 μV 0.25 μV |
| Selectivity | Analog @ 25 kHz Analog @ 12.5 kHz | 80 dB 70 dB | 80 dB 70 dB |
| Intermodulation | Analog | 75 dB (±50, 100 kHz) | |
| Spurious Response | Analog | 90 dB | 85 dB |
| Audio Distortion | | Less than 3% | |
| Audio Output | | 4 W / 4 Ω | |
| TRANSMITTER | | | |
| RF Power Output | Mid Power | 30 W to 1 W | 30 W to 1 W 25 W to 1 W (490-520 MHz) |
| | High Power | 50 W to 10 W | 45 W to 10 W 40 W to 10 W (490-512 MHz) 35 W to 10 W (512-520 MHz) |
| Spurious Response | | 73 dB | 75 dB |
| FM Hum & Noise | Analog @ 25 kHz Analog @ 12.5 kHz | 50 dB 45 dB | |
| Audio Distortion | | Less than 3% | |
| Modulation | | 16K0F3E, 14K4F1D, 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 |
|--|--|--------------------------------|--------------------------------|--------------------------------|
| Low Pressure | 500.1/Procedure I | 500.2/Procedure I, II | 500.3/Procedure I, II | 500.4/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 |
| Low Temperature | 502.1/Procedure I | 502.2/Procedure I, II | 502.3/Procedure I, II | 502.4/Procedure I, II |
| Temperature Shock | 503.1/Procedure I | 503.2/Procedure I | 503.3/Procedure I | 503.4/Procedure I, II |
| Solar Radiation | 505.1/Procedure I | 505.2/Procedure I | 505.3/Procedure I | 505.4/Procedure I |
| Rain | 506.1/Procedure I, II | 506.2/Procedure I, II | 506.3/Procedure I, II | 506.4/Procedure I, III |
| Humidity | 507.1/Procedure I, II | 507.2/Procedure II, III | 507.3/Procedure II, III | 507.4 |
| Salt Fog | 509.1/Procedure I | 509.2/Procedure I | 509.3/Procedure I | 509.4 |
| Dust | 510.1/Procedure I | 510.2/Procedure I | 510.3/Procedure I | 510.4/Procedure I, III |
| Vibration | 514.2/Procedure VIII, X | 514.3/Procedure I | 514.4/Procedure I | 514.5/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 |
| 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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