

KENWOOD

Listen to the Future

NEW PRODUCT INFORMATION

NEXEDGE™

NXR-700/800

NEXEDGE™ VHF/UHF Digital & FM Base Units

NXDN™

FleetSync®
by KENWOOD

● GENERAL FEATURES

- 146-174 MHz
- 450-480 MHz
- 5 W Exciter Output
- 40 / 110 / 250 Watt VHF Systems
- 40 / 100 / 250 Watt UHF Systems
- Repeater Operation
- Duplex/Simplex Base Operation
- 30 CH Scanning Base (Conventional)
- Two-Digit LED Display
- LED Status Indicators
- 6 Programmable Function Keys
- 3 W Front Panel Speaker
- Volume Control
- Microphone Jack
- Program/Modem Interface
- Remote Termination Interface
- Programmable AUX I/O's
- DTMF Front Panel PF Key Control
- DTMF AUX Output Control
- DTMF AUX Input Monitoring
- KPG-109D Windows® FPU
- Flash Firmware Upgrading

● DIGITAL – GENERAL

- NXDN™ Digital Air Interface
- AMBE+2™ VOCODER
- 6.25 & 12.5 kHz Channels
- NXDN™ Scrambler (Included)
- KXX-3 OCXO Option (6.25 kHz operation)

● DIGITAL – CONVENTIONAL MODE

- 16 RAN Repeater Controller Built-in
- 1,000 GIDs Per Site
- 1,000 UIDs Per Site
- Individual & Group Selective Call
- Mixed FM/Digital Operation

● DIGITAL TRUNKING OPTION

- 3,000 GIDs Per Site
- 3,000 UIDs Per Site
- 30 Channels Per Site
- Transmission Trunked Mode
- Message Trunked Mode
- Busy Call Queuing Priority
- Call Queue Pre-emption
- Late Entry
- Control/Traffic Channel Switching
- Control Channel Rotation
- Cross-Busy
- Fail Soft Mode*
- ESN Validation*

● MULTI-SITE IP NETWORK OPTION*

- 16 Sites Per Network
- 60,000 GIDs Per Network
- 60,000 UIDs per Network
- Individual Private Call
- Group Call
- NEXEDGE™ Trunked Features
- Ethernet Network Interface
- IP LAN/WAN Connectivity
- Auto-Roaming / Registration

● KPG-110SM SYSTEM MANAGER

- Trunked & Network Systems Only
- Windows® 2000/XP/Vista® Compatible
- USB Secure Key Access
- Direct, Dial-Up & IP Connectivity
- Subscriber Privileging
- Remote Site Provisioning
- Activity Monitoring
- NXR/Network Diagnostics
- Remote Flash Firmware Updating
- Call Logging*

● FM MODES – GENERAL

- VHF: 25 & 12.5 kHz Channels
- UHF: 25 & 12.5 kHz Channels
- Encryption/ANI Board Control

● FM CONVENTIONAL MODE

- 16 QT/DQT Repeater Control Built-in
- Hang Timer / Time Out Timer / CW ID
- External FM Controller Interface
- EIA Voter Tone Generation

● FM LTR® TRUNKED MODE

- External LTR® Controller Interface

* Some features/options are available in future releases.



KenwoodLandMobileRadio
25Years

Options

KXK-3

OCXO Unit
(Required for
6.25 kHz operation)



KMC-9C

Desktop Microphone



KMC-35

Microphone



KES-5

External Speaker



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

| | | NXR-700 | NXR-800 |
|-----------------------------|--|---|---|
| GENERAL | | | |
| Frequency Range | K | 146-174 MHz | 450-480 MHz |
| Channel Spacing | Analog Digital | 12.5 / 15 / 25 / 30 kHz 6.25 / 12.5 kHz | 12.5 / 25 kHz 6.25 / 12.5 kHz |
| PLL Channel Step | | 2.5 / 3.125 / 5 / 6.25 kHz | 3.125 / 5 / 6.25 kHz |
| Frequency Stability | | | ± 1.5 ppm ± 0.5 ppm |
| Operating Voltage | With KXK-3 (for 6.25 kHz) | | 10.8 - 15.9 V DC |
| Operating Temperature Range | | | -22° F to + 140° F (-30° C to +60° C) |
| Antenna Impedance | | | 50 Ω |
| Dimensions (W x H x D) | Projections not included | 19.02 x 1.73 x 13.03 in (483 x 44 x 331 mm) | |
| Weight (net) | | 11 lb (5 kg) | |
| RECEIVER | | | |
| Sensitivity | Digital @ 6.25kHz (3% BER) Digital @ 12.5kHz (3% BER) Analog (12 dB SINAD) | | 0.27 μV 0.33 μV 0.30 μV |
| Selectivity | Analog @ 25/30 kHz Analog @ 12.5 kHz | 93 dB (± 30 kHz) 85 dB (± 12.5 kHz) | 87 dB (± 25 kHz) 81 dB (± 12.5 kHz) |
| FM Hum & Noise | Analog @ 25/30 kHz Analog @ 12.5 kHz | | 60 dB 55 dB |
| Intermodulation Distortion | | | 85 dB (± 50 / 100 kHz) |
| Spurious Response | | | 100 dB |
| Audio Distortion (Ext. SP) | | | Less than 2% (at 0.3W) |
| Audio Output (Ext. SP) | | | 3 W (at 4Ω, less than 5% distortion) |
| TRANSMITTER | | | |
| RF Power Output | | | 5 W to 0.5 W |
| Spurious & Harmonics | | | 73 dB |
| FM Hum & Noise | Analog @ 25/30 kHz Analog @ 12.5 kHz | | 55 dB 50 dB |
| Audio Distortion | | | Less than 1% at 1000 Hz |
| Modulation | | | 16K0F3E, 11K0F3E, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D |

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® and Windows 2000/XP/Vista® are registered trademarks of Microsoft Corporation.

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

NEXEDGE™ is a trademark of Kenwood Corporation.

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.

Kenwood U.S.A. Corporation
Communications Sector Headquarters
3975 Johns Creek Court, Suwanee, GA 30024-1265

Kenwood Electronics Canada Inc.
Canadian Headquarters and Distribution
6070 Kestrel Road, Mississauga, Ontario, Canada L5T 1S8

Order Administration/Distribution

P.O. BOX 22745, 2201 East Dominguez St., Long Beach, CA 90801-5745



ISO9001 Registered
Communications Equipment Division
Kenwood Corporation
ISO9001 certification