

# 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  
**25 Years**

## Options

- **KXK-3**  
OCXO Unit  
(Required for  
6.25 kHz operation)



- **KMC-9C**  
Desktop Microphone



- **KMC-35**  
Microphone



- **KES-5**  
External Speaker



## 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.

		NXR-700	NXR-800
<b>GENERAL</b>			
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	With KXK-3 (for 6.25 kHz)		± 1.5 ppm ± 0.5 ppm
Operating Voltage			13.8 V DC ± 15%
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)	
FCC ID		K44371300	K44371400
IC Certification		282F-371300	282F-371400
<b>RECEIVER</b>			
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)	
<b>TRANSMITTER</b>			
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.

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## 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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