

NEXEDGE®

NXR-700/800

NEXEDGE® VHF/UHF Digital & FM Base Units

NXDN® FleetSync®

GENERAL FEATURES

- 136-154, 146-174 MHz
- 400-430, 450-480, 480-512 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
- 0.3 W Front Panel Speaker
- 3 W External Speaker Audio
- 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 – COMMON

- NXDN[®] Digital Air Interface
- AMBE+2[™] VOCODER
- 6.25 & 12.5 kHz Channels
- UID & GID Validation
- NXR Over-the-Air Alias
- KXK-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
- Mixed FM/Digital Operation
- NXDN® Scrambler Included
- Conventional IP Networks

DIGITAL TRUNKING OPTION

- 3,000 GIDs Per Site
- 3,000 UIDs Per Site
- 30 Channels Per Site
- Transmission Trunked Mode
- Message Trunked Mode
- Call Queuing with Priority
- Call Queue Pre-emption
- Late Entry (UID & GID)
 NXDN™ Scrambled Audio Support
- Cross-Busy
- Fail Soft Mode
- NXDN® & LTR® Traffic Channel Sharing
- 2MB Call/Activity Memory
- Compact Flash Memory Expansion

MULTI-SITE IP NETWORK OPTION

- 48 Site Trunked IP Network
- 65,519 GIDs Per Network
- 65,519 UIDs per Network
- NEXEDGE® Trunked Features
- Ethernet Network Interface
- IP LAN/WAN Connectivity
- ESN Validation
- Wide Area All Group Call
- Group Registration
- Auto-Roaming / Registration
- Use of Off-the-Shelf 10 Base-T/100 Base-TX Ethernet Switching & Routers

KPG-110SM SYSTEM MANAGER

- Trunked Sites & IP Network Systems Only
- Windows® 2000/XP/Vista® Compatible
- USB Secure Key Access
- Direct, Dial-Up & IP Connectivity
- Subscriber Privileging
- 127 UID Class Of Service Entries
- 127 GID Class of Service Entries
- 5000 Fleets (UID/GID User Lists)
- Group Call Inter-Site Limits
- Remote Site Programming
- Real-Time Activity Monitoring
- NXR/Network Interface Diagnostics
- Call Logging / Event Download
- Remote System Firmware Updates

MODES – GENERAL

- 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



Options

OCXO Unit (Required for 6.25 kHz operation)



■ KMC-9C Desktop Microphone



■ KMC-35 Microphone



KES-5External 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	
GENERAL				
Frequency Range	K K2 K3	146-174 MHz 136-154 MHz	450-480 MHz 480-512 MHz (RX) / 477-512 MHz (TX) 400-430 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	WILLI KAK-3 (101 0.23 KH2)	13.8 V DC ± 15%		
Operating Voltage Operating Temperature Range			-22° F to + 140° F (-30° C to +60° C)	
		-22 F (0 + 140 F (-30 C (0 +60 C)		
Antenna Impedance		19.02 x 1.73 x 13.03 in (483 x 44 x 331 mm)		
Dimensions (W x H x D) Projections not included Weight (net)			19.02 X 1.73 X 13.03 III (483 X 44 X 531 IIIIII)	
FCC ID	K	K44371300	K44371400	
FCC ID	K2 K3	K44371300 K44371301	K44371400 K44371401 K44371402	
IC Certification	K K2	282F-371300 282F-371301	282F-371400	
	К3		282F-371402	
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	5	0 dB 5 dB	
Intermodulation Distortion		85 dB (± 50 / 100 kHz)		
Spurious Response			100 dB	
Audio Distortion (Ext. SP)			Less than 2% (at 0.3W) 3 W (at 4 Ω , less than 5% distortion)	
Audio Output (Ext. SP) TRANSMITTER		3 VV (at 4 Ω, less	than 5% distortion)	
RF Power Output			5 W to 0.5 W	
Spurious & Harmonics		7	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		
		4K00F1D, 4K	00F7W, 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 Transcrypt International. AMBE+ 2^{IM} is a trademark of Digital Voice Systems Inc.

Windows® and Windows 2000/XP/Vista® are registered trademarks of Microsoft Corporation. NXDN® is a registered trademark of Kenwood Corporation and Icom Inc. NXEDGE® is a registered 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 3970 Johns Creek Court, Suite 100, Suwanee, GA 30024

Order Administration/Distribution

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

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



