KENWOOD

NEXEDGE®

NXR-700/800
NEXEDGE® VHF/UHF Digital & FM Base Units
NXDN®

GENERAL FEATURES

- 136-154, 146-174 MHz
- 400-430, 450-480, 480-512 MHz
- 5 W Exciter Output
- 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
- 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
- NXDN® Scrambler Included
- AMBE+2™ VOCODER
- 6.25 & 12.5 kHz Channels
- UID & GID Validation
- NXR Over-the-Air Alias
- KXK-3 OCXO Option

DIGITAL – CONVENTIONAL MODE

- 16 RAN Repeater Controller Built-in
- 1,000 GIDs Per Site
- 1,000 UIDs Per Site
- Mixed FM/Digital Operation
- Conventional IP Networks
- Site Roaming Capability

DIGITAL TRUNKING OPTION

- 3,000 GIDs Per Site
- 3,000 UIDs Per Site
- 30 Channels Per Site
- Telephone Interconnect Option
- Transmission Trunked Mode
- Message Trunked Mode
- Busy Call Queuing
- Call Que Pre-emption
- Late Entry (UID & GID)
- Control / Traffic Channel Switching
- Control Channel Rotation
- Cross-Busy
- Failsoft Mode
- NXDN® Traffic Channel Sharing
- 2 MB Call/Activity Memory
- Compact Flash Memory Expansion
- ESN Validation

MULTI-SITE IP NETWORK OPTION

- 48 Site Trunked IP Network
- 60,000 GIDs Per Network
- 60,000 UIDs Per Network
- NEXEDGE® Trunked Features
- Ethernet Network Interface
- IP LAN/WAN Connectivity
- Auto-Roaming / Registration
- Wide Area All Group Call
- Virtual Private Network
- Group 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®/7Compatible
- USB Secure Key Access
- Direct, Dial-Up & IP Connectivity
- Subscriber Privileging
- 127 UID/GID Class-of-Service Entries
- 5000 Fleets (UID/GID User Lists)
- Telephone Call Limits
- Group Call Inter-Site Limits
- Remote Site Programming
- Real-Time Activity Monitoring
- NXR/Network Interface Diagnostics
- Call Logging / Event Download
- Remote System Firmware Updates

FM 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
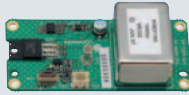- External FM Controller Interface
- EIA Voter Tone Generation

FM TRUNKED MODE

- External LTR® Controller Interface
- External MPT Controller Interface

● Options

KXK-3
OCXO Unit

KMC-35
Microphone

KES-5
ExternalSpeaker

KMC-30
Microphone

KMC-9C
Desktop
Microphone

KTI-4
Telephone
Interconnect
Adapte

* Required for 6.25 kHz trunking or frequency stability to observe the regulations.

All accessories and options may not be available in all markets.
Contact our authorized dealer for details and complete list of all accessories and options.

● Main Specifications

		NXR-700	NXR-800
GENERAL			
Frequency Range	**K Type**	146-174 MHz	450-480 MHz
	K2 Type	136-154 MHz	480-512 MHz (RX) / 477-512 MHz (TX)
	K3 Type		400-430 MHz
Channel Spacing	**Analog**	12.5 / 15 / 25 / 30 kHz	12.5 / 25 kHz
	Digital	6.25 / 12.5 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	
	With KXK-3 (M)	± 0.5 ppm	
	With KXK-3 (M2)	± 1.0 ppm	
Operating Voltage		10.8 - 15.9 V DC	
Operating Temperature Range		-30˚ C to +60˚ C (-22˚ F to + 140˚ F)	
Antenna Impedance		50 Ω	
Dimensions (W x H x D) Projections not included		483 x 44 x 331 mm	
Weight (net)		5 kg	
RECEIVER			
Sensitivity			
	Digital @ 6.25kHz (3% BER)	0.27 μV	
	Digital @ 12.5kHz (3% BER)	0.33 μV	
	Analog (12 dB SINAD)	0.30 μV	
Selectivity			
	Analog @ 25/30 kHz	93 dB (± 30 kHz)	87 dB (± 25 kHz)
	Analog @ 12.5 kHz	85 dB (± 12.5 kHz)	81 dB (± 12.5 kHz)
FM Hum & Noise			
	Analog @ 25/30 kHz	60 dB	
	Analog @ 12.5 kHz	55 dB	
Intermodulation Distortion		85 dB (± 50 / 100 kHz)	
Spurious Response		100 dB	
Audio Distortion (Ext. SP)		Less than 2% (at 0.3 W)	
Audio Output (Ext. SP)		3 W (at 4 Ω, 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	55 dB	
	Analog @ 12.5 kHz	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.
Specifications are subject to change without notice, due to advancements in technology.

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UKAS
MANAGEMENT
SYSTEMS

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Communications Equipment Division
Professional Systems Business Group
JVC KENWOOD Corporation

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