

KENWOOD

Listen to the Future

NEXEDGE®

NXR-710/810

NEXEDGE® VHF/UHF Digital & FM Base Units

NXDN®

● GENERAL FEATURES

- 136 - 174 MHz, 50W
- 400 - 470, 450 - 520 MHz, 40W
- 50 / 40W @ 50% Duty
- 25 / 25W @ 100% Duty
- 40, 100 & 150W 100% Duty UHF Rack/ Cabinet Systems
- 50, 110 & 150W 100% Duty VHF Rack/Cabinet Systems
- Repeater Operation
- Duplex / Simplex Base Operation
- 30 CH Scanning Base
- Two-Digit LED Display
- 6 Lighted Programmable Function keys
- Front Panel Speaker
- 4W External Speaker Audio
- Volume Control
- Microphone Jack
- Program Interface
- Remote Terminal Interface
- Programmable AUX I/O's
- DTMF Front Panel PF key Control
- DTMF AUX Output Control
- DTMF AUX Input Monitoring
- Windows® PC programming
- Flash Firmware Upgrading

● DIGITAL – CONVENTIONAL MODE

- NXDN® Digital Air Interface
- Conventional IP Network
- AMBE+2™ VOCODER
- 6.25 & 12.5 kHz Channels
- Mixed FM/Digital Operation
- NXDN® Scrambler Built-in
- 16 RAN Repeater Control Built-in
- 1,000 GIDs Per Site
- 1,000 UIDs Per Site
- Individual & Group Selective Call
- All Group Call
- NXR Over-the-Air Alias

● FM MODES – GENERAL

- VHF: 25 & 12.5 kHz Channels
- UHF: 25 & 12.5 kHz Channels
- Built-in Scrambler

● FM CONVENTIONAL MODE

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

● FM TRUNKED MODE

- External LTR® Controller Interface
- External MPT Controller Interface



Options

■ **KMC-27A**
Microphone
(MIL-SPEC noise-canceling)

■ **KMC-27B**
Microphone

■ **KMC-35**
Microphone



■ **KMC-9C**
Desktop Microphone



■ **KES-5**
External Speaker



■ **KTI-3M**
Network Interface
Unit



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-710	NXR-810
GENERAL			
Frequency Range	K K2	136-174 MHz -	450-520 MHz 400-470 MHz
Number of Channels		30	
Channel Spacing	Analog Digital	12.5 / 15 / 25 / 30 kHz 6.25 / 7.5 / 12.5 / 15 kHz	12.5 / 25 kHz 6.25 / 12.5 kHz
PLL Channel Step		2.5 / 3.125 kHz	
Current Drain	Standby Receive Transmit		0.5A 1.0A 11.0A
TX Power	50% Duty 100% Duty	50 W 25 W	40 W 25 W
Frequency Stability		± 1.0 ppm	± 0.5 ppm
Operating Voltage		10.8 -15.6 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 x 3-1/2 x 13-1/3 inch (483 x 88 x 340 mm)	
Weight (net)		21.4 lbs (9.7 kg)	
FCC ID	K K2	K44422300 -	K44422400 K44422401
IC Certification	K K2	282F-422300 -	- 282F-422401
RECEIVER			
Sensitivity	Digital @ 6.25kHz (3% BER) Digital @ 12.5kHz (3% BER) Analog (12 dB SINAD)		0.22 µV 0.28 µV 0.28 µV
Selectivity	Analog @ 25 kHz Analog @ 12.5 kHz	83 dB 77 dB	80 dB 74 dB
FM Hum & Noise	Analog @ 25 kHz Analog @ 12.5 kHz		55 dB 50 dB
Intermodulation Distortion			80 dB
Spurious Response			90 dB
Audio Distortion (Ext. SP)		Less than 2.5% at 1000 Hz	
Audio Output (Ext. SP)		4 W (at 4 Ω), less than 5% distortion	
TRANSMITTER			
RF Power Output		25 W to 50 W	25 W to 40 W
Spurious & Harmonics			80 dB
FM Hum & Noise	Analog @ 25 kHz Analog @ 12.5 kHz		55 dB 50 dB
Audio Distortion Modulation		Less than 1% at 1000 Hz 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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