

NEXEDGE®

NXR-710/810

NEXEDGE® VHF/UHF Digital & FM Base Units

NXDN®

GENERAL FEATURES

- 136 - 174 MHz, 5 - 50 W
- 400 - 470 MHz, 5 - 40 W
- Repeater Operation
- Duplex / Simplex Base Operation
- 30 CH Scanning Base
- Two-Digit LED Display
- 6 Lighted Programmable Function Keys
- Front Panel Speaker
- Rear External Speaker Output (4 Watts Audio)
- Volume Control
- Programmable AUX I/O's
- RF Power Down Detect
- DTMF Front Panel PF Key Control
- DTMF AUX Output Control
- DTMF AUX Input Monitoring
- External Frequency Reference (10 MHz) Connectivity
- 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
- NXR Over-the-Air Alias

FM MODES – GENERAL

- VHF: 25, 20 & 12.5 kHz Channels
- UHF: 25, 20 & 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
- EIA Voter Tone Generation

FM TRUNKED MODE

- External MPT Controller Interface



Options

KMC-27A

Microphone
(MIL-SPEC noise-can-
celing)



KMC-27B

Microphone



KMC-35

Microphone

KMC-9C

Desktop Microphone



KES-5

External Speaker



KTI-3

Network Interface Unit



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-710	NXR-810
GENERAL			
Frequency Range		136 - 174 MHz	400 - 470 MHz
Number of Channels		30	
Channel Spacing	Analogue Digital	12.5 / 20 / 25 kHz 6.25 / 12.5 kHz	
PLL Channel Step		2.5 / 3.125 kHz	3.125 / 5 kHz
Current Drain	Standby Receive Transmit	0.5 A 1.0 A 11.0 A	
Duty Cycle (TX, RX)		100% at 25W, 50% at maximum power	
Frequency Stability		± 1.0 ppm	
Operating Voltage		13.2 V DC (10.8 - 15.6 V DC)	
Operating Temperature Range		-30°C to +60°C	
Antenna Impedance		50 Ω	
Dimensions (W x H x D), Projections not included		483 x 88 x 340 mm	
Weight (net)		9.7 kg	
Applicable Standards	ETSI R&TTE	EN 300 086, EN 300 113, EN 300 219, EN301 489, EN 301 166	
	ETSI Safety	EN 60065, EN 60950-1, EN 60215	
RECEIVER			
Sensitivity (Analogue) (25kHz /20kHz/12.5kHz)	EIA 12dB SINAD EN 20dB SINAD	0.28 μV -3 dBμV (0.35 μV)	
Sensitivity (Digital) (12.5kHz/6.25kHz)	3% BER 1% BER	0.28 μV / 0.22 μV -4 dBμV (0.32 μV) / -6 dBμV (0.25 μV)	
Adjacent Channel Selectivity (Analogue) (25kHz /20kHz/12.5kHz)		83 dB / 81 dB / 77 dB	80 dB / 78 dB / 74 dB
Intermodulation (Analogue)		72 dB	
Spurious Response Rejection (Analogue)		85 dB	
Audio Distortion		Less than 2.5% at 1000 Hz	
Audio Output		4 W (at 4 Ω, less than 5% distortion)	
TRANSMITTER			
RF Power Output		5 W to 50 W	5 W to 40 W
Modulation Limiting (Analogue)		±5.0 kHz at 25 kHz ±4.0 kHz at 20 kHz ±2.5 kHz at 12.5 kHz	
Spurious Emission		- 36 dBm ≤ 1 GHz, -30 dBm > 1 GHz	
FM Noise (EIA) (Analogue, 25kHz/20kHz/12.5kHz)		55 dB / 53 dB / 50 dB	
Modulation Distortion		Less than 1% at 1000 Hz	
Modulation		16K0F3E, 14K0F3E, 14K0F2D, 12K0F2D, 8K50F3E, 7K50F2D, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D	

Analogue measurements made per EN 300 086 and 113.

Digital measurements made per EN 300 113 and EN301 166.
Specifications shown are typical.

Kenwood follows a policy of continuous advancement in development.
For this reason specifications may be changed without notice.

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Windows® is a registered trademarks of Microsoft Corporation.

NXDN® is a registered trademark of Kenwood Corporation and Icom Inc.

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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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