KENWOOD

Listen to the Future

NEXEDGE®

NX-700(H)/800(H)

NEXEDGE® VHF/UHF Digital & FM Mobile Radios

NXDN® FleetSync® by KENWOOD

GENERAL FEATURES

- 30 W / 50 W (136-174 MHz) Models
- 30 W / 45 W (400-470, 450-520 MHz) Models
- 512 CH-GID / 128 Zones
- Dash & Remote Mount
- 14 Character Alphanumeric Aliases
- Backlit Dot Matrix LCD
- Function/Status LCD Icons
- Date & 12/24 Hour Time Clock
- Transmit/Busy/Call Alert/Warn LED
- On/Off Power Control
- 4 Up/Down Selectors
- 6 Front PF Keys
- Emergency/AUX Key
- 4W Speaker Audio
- Emergency Call Features
- Multi-Language Display
- DB-25 Accessory Connector
- 9 Programmable AUX I/Os
- 2 Programmable AUX Outputs
- KPG-111D Windows® FPU
- Flash Firmware Upgrading
- MIL-STD-810 C/D/E/F
- IP54/55 Water & Dust Intrusion
- PC Serial Interface
- SDM Manual Input*1
- Transparent Data Mode*1
- GPS Receiver Option
- VGS-1 Voice Guide / Voice & GPS Data Storage Option

DIGITAL – GENERAL

- NXDN® Digital Air Interface
- AMBE+2™ VOCODER
- 6.25 & 12.5 kHz Channels
- Over-the-Air Alias
- Over-the-Air Programming*2
- Paging Call
- Emergency Call
- All Group Call
- Status Messaging*1
- Remote Stun/Kill*1
- Remote Check*1
- Short & Long Data Messages*1
- GPS Location with Voice*1
- NXDN® Scrambler Included

DIGITAL CONVENTIONAL MODE

- 64 Radio Access Numbers (RAN)
- Individual & Group Selective Call
- Mixed FM/Digital Operation
- Conventional IP Networks
- Site Roaming

DIGITAL TRUNKING MODE

- Individual Private Call
- Group Call & Broadcast Call
- Telephone Interconnect*3
- Transmission Trunked Mode*3
- Message Trunked Mode*3
- Call Queuing with Priority*3
- Late Entry (UID & GID)*3
- 4 Priority Monitor ID's*3
- Remote Group Add*1
- Failsoft Mode

MULTI-SITE IP NETWORK COMPATIBLE

- 60,000 GIDs / UIDs
- Wide Area Group Call
- Auto Roaming Registration
- Group Registration

SCAN

- Single / Multi-Zone Scan / List Scan
- Dual Priority Scan (Conventional)

FM MODES – GENERAL

- 25 & 12.5 kHz Channels
- FleetSync®/II
- DTMF Encode/Decode
- Voice Inversion Scrambler
- Analog Scrambler Board Capability

FM CONVENTIONAL ZONES

- QT / DQT / Two-Tone
- Call Keys 1-6
- Operator Selectable Tone

FM LTR® TRUNKED ZONES

- Kenwood LTR® Features

FleetSync®/II (FM)

- PTT ID Digital ANI
- Selective Call & Group Call
- Status Messaging*1
- Emergency Status
- Caller ID Display
- Short Text Messages*1

MDC-1200

- PTT ID Digital ANI
- Caller ID Display
- Emergency Status
- Radio Check
- Radio Inhibit

*1 Requires NX subscriber unit PC Serial Interface compatible software application (e.g Kenwood AVL & Dispatch Messaging software) or hardware (e.g. console).

*2 Requires Kenwood OTAP Management software

*3 These trunked features are primarily system programming and operational dependent. Priority Monitor also requires NX subscriber settings.

http://nexedge.kenwood.com

Options

- **KMC-30** Microphone
- **KMC-32** Microphone with Keypad
- **KMC-35** Microphone
- **KMC-36** Microphone with Keypad
- **KMC-9C** Control Station Desktop Microphone
- **KES-5** External Speaker
- **KRK-10** Panel Remote Kit
- **KAP-2** Horn Alert / PA Relay Unit
- **KCT-46** Ignition Sense Cable
- **KCT-23M** DC Cable (3 m)
- **KCT-23M3** DC Cable (7 m)

KCT-23M3

- **KLF-2** Line Noise Filter
- **VGS-1** Voice Guide and Storage Unit
- **KMB-10** Key Lock Adaptor

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

		NX-700(H)	NX-800(H)
GENERAL			
Frequency Range	**Type 1**	136-174 MHz	450-520 MHz
	Type 2		400-470 MHz
Number of Channels		512	
Zones		128	
Max. Channels per Zone		250	
Channel Spacing	**Analog**	12.5 / 15 / 25 / 30 kHz	12.5 / 25 kHz
	Digital	6.25 / 12.5 kHz	6.25 / 12.5 kHz
Operating Voltage		13.6 V DC ± 15%	
Operating Temperature Range		-30˚ C to +60˚ C (-22˚ F to +140˚ F)	
Frequency Stability		± 1.0 ppm	± 1.0 ppm
Antenna Impedance		50 Ω	
Dimensions (W x H x D) Projections not included		160 x 45 x 157 mm	
Weight (net)		1.38 kg	

Analog measurements made per TIA/EIA 603 and specifications shown are typical.
Kenwood reserves the right to change specifications without prior notice or obligation.

		NX-700(H)	NX-800(H)
RECEIVER			
Sensitivity	**Digital @ 6.25 kHz (3% BER)**	0.20 µV	
	Digital @ 12.5 kHz (3% BER)	0.28 µV	
	Analog (12 dB SINAD)	0.25 µV	
Selectivity	**Analog @ 25 kHz**	80 dB	
	Analog @ 12.5 kHz	70 dB	
Intermodulation	**Analog**	75 dB (±50,100 kHz)	
Spurious Response	**Analog**	90 dB	85 dB
Audio Distortion		Less than 3%	
Audio Output		4 W / 4 Ω	
TRANSMITTER			
RF Power Output	**Mid Power**	30 W to 1 W	30 W to 1 W 25 W to 1 W (490-520 MHz)
	High Power	50 W to 10 W	45 W to 10 W 40 W to 10 W (490-512 MHz) 35 W to 10 W (512-520 MHz)
Spurious Response		73 dB	75 dB
FM Hum & Noise	**Analog @ 25 kHz**	50 dB	
	Analog @ 12.5 kHz	45 dB	
Audio Distortion		Less than 3%	
Modulation		16K0F3E, 14K4F1D, 11K0F3E, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D	

Applicable MIL-STD & IP

MIL Standard	MIL 810C Methods/Procedures	MIL 810D Methods/Procedures	MIL 810E Methods/Procedures	MIL 810F Methods/Procedures	MIL 810G Methods/Procedures
Low Pressure	500.1/Procedure I	500.2/Procedure I, II	500.3/Procedure I, II	500.4/Procedure I, II	500.5/Procedure I, II
High Temperature	501.1/Procedure I, II	501.2/Procedure I, II	501.3/Procedure I, II	501.4/Procedure I, II	501.5/Procedure I, II
Low Temperature	502.1/Procedure I	502.2/Procedure I, II	502.3/Procedure I, II	502.4/Procedure I, II	502.5/Procedure I, II
Temperature Shock	503.1/Procedure I	503.2/Procedure I	503.3/Procedure I	503.4/Procedure I, II	503.5/Procedure I
Solar Radiation	505.1/Procedure I	505.2/Procedure I	505.3/Procedure I	505.4/Procedure I	505.5/Procedure I
Rain	506.1/Procedure I, II	506.2/Procedure I, II	506.3/Procedure I, II	506.4/Procedure I, III	506.5/Procedure I, III
Humidity	507.1/Procedure I, II	507.2/Procedure II, III	507.3/Procedure II, III	507.4	507.5/Procedure II
Salt Fog	509.1/Procedure I	509.2/Procedure I	509.3/Procedure I	509.4	509.5
Dust	510.1/Procedure I	510.2/Procedure I	510.3/Procedure I	510.4/Procedure I, III	510.5/Procedure I
Vibration	514.2/Procedure VIII, X	514.3/Procedure I	514.4/Procedure I	514.5/Procedure I	514.6/Procedure I
Shock	516.2/Procedure I, II, III, V	516.3/Procedure I, IV, V	516.4/Procedure I, IV , V	516.5/Procedure I, IV, V	516.6/Procedure I, IV, V
International Protection Standard					
Dust & Water Protection	IP54: Radio itself IP54/55: Remote head with KRK-10				

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 Corporation
1-16-2 Hakusan, Midori-ku, Yokohama-shi, Kanagawa, 226-8525 Japan
www.kenwood.com
http://nexedge.kenwood.com

JQA-QMA1205 091-A
ISO9001 Registered
Communications Equipment Division
Kenwood Corporation
ISO9001 certification

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