

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
- AES / DES Encryption Options

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.



Options

<ul style="list-style-type: none"> KMC-30 Microphone KMC-32 Microphone with Keypad KMC-35 Microphone KMC-36 Microphone with Keypad 	<ul style="list-style-type: none"> KMC-9C Control Station Desktop Microphone KES-5 External Speaker KRK-10 Panel Remote Kit KAP-2 Horn Alert / PA Relay Unit 	<ul style="list-style-type: none"> KCT-46 Ignition Sense Cable KCT-23M DC Cable (3 m) KCT-23M3 DC Cable (7 m) 	<ul style="list-style-type: none"> KLF-2 Line Noise Filter VGS-1 Voice Guide and Storage Unit KMB-10 Key Lock Adaptor
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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

		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 VDC ± 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. Specifications are subject to change without notice, due to advancements in technology.

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 LTR® is a registered trademark of Transcript International.
 AMBE+2™ is a trademark of Digital Voice Systems Inc.
 Windows® is a registered trademark of Microsoft Corporation.
 NXDN® is a registered trademark of JVC KENWOOD Corporation and Icom Inc.
 NEXEDGE® is a registered trademark of JVC KENWOOD Corporation.

		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
	High Power	50 W to 10 W	25 W to 1 W (490-520 MHz) 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				

JVC KENWOOD Corporation

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