

NEXEDGE®

NX-700/800

NEXEDGE® VHF/UHF Digital & FM Mobile Radios

NXDN®

FleetSync®
by KENWOOD

5-tone

● GENERAL FEATURES

- 25 W (136-174 MHz) Models
- 25 W (400-470 MHz) Models
- Meets ETSI EN Standards
- 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
- Lone Worker
- 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, 20 & 12.5 kHz Channels
- FleetSync®/II
- DTMF Encode/Decode
- Voice Inversion Scrambler
- Analogue Scrambler Board Capability

● FM CONVENTIONAL ZONES

- QT / DQT / Two-Tone
- 5-Tone Encode / Decode
- Call Keys 1-6
- Operator Selectable Tone
- Voting

● 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) KLF-2 Line Noise Filter 	<ul style="list-style-type: none"> VGS-1 Voice Guide and Storage Unit KDI-03 DIN-size Mounting Bracket 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	NX-800
GENERAL		
Frequency Range	136-174 MHz	400-470 MHz
Number of Channels	512	
Zones	128	
Max. Channels per Zone	250	
Channel Spacing	Analogue 12.5 / 20 / 25 kHz Digital 6.25 / 12.5 kHz	
Operating Voltage	13.2 V DC (10.8 - 15.6 V DC)	
Operating Temperature Range	- 30°C to + 60°C	
Frequency Stability	± 1.7 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	
Applicable Standards	ETSI R&TTE EN 300 086, EN 300 113, EN 300 219, EN 301 489, EN 301 166 ETSI Safety EN 60065, EN 60950-1, EN 60215	

Analogue measurements made per EN Standards or TIA/EIA 603 and specifications shown are typical. Specifications are subject to change without notice, due to advancements in technology.

FleetSync® is a registered trademark of JVC KENWOOD Corporation.

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.

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	NX-700	NX-800
RECEIVER		
Sensitivity (Analogue) EIA 12dB SINAD	0.25 μV	
EN 20dB SINAD	-3 dB μV (0.35 μV)	
Sensitivity (Digital) 3% BER	0.28 μV / 0.20 μV	
(12.5 kHz / 6.25 kHz) 1% BER	-2 dB μV (0.40 μV) / -5 dB μV (0.28 μV)	
Adjacent Channel Selectivity (Analogue) (25kHz / 20kHz / 12.5kHz)	80 dB / 78 dB / 70 dB	78 dB / 76 dB / 68 dB
Intermodulation (Analogue)	70 dB	
Spurious Response Rejection (Analogue)	80 dB	
Audio Distortion	Less than 3%	
Audio Output	4 W / 4 Ω	
TRANSMITTER		
RF Power Output	1 - 25 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)	50 dB / 50 dB / 45 dB	
Modulation Distortion	Less than 3%	
Modulation	16K0F3E, 14K0F3E, 14K0F2D, 12K0F2D, 8K50F3E, 7K50F2D, 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				

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ISO9001 Registered
Communications Equipment Division
Professional Systems Business Group
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