

# KENWOOD

Listen to the Future

## 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\*<sup>1</sup>
- Transparent Data Mode\*<sup>1</sup>
- 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
- Paging Call
- Emergency Call
- All Group Call
- Status Messaging\*<sup>1</sup>
- Remote Stun/Kill\*<sup>1</sup>
- Remote Check\*<sup>1</sup>
- Short & Long Data Messages\*<sup>1</sup>
- GPS Location with Voice\*<sup>1</sup>
- 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
- Transmission Trunked Mode\*<sup>2</sup>
- Message Trunked Mode\*<sup>2</sup>
- Call Queuing with Priority\*<sup>2</sup>
- Late Entry (UID & GID)\*<sup>2</sup>
- 4 Priority Monitor ID's\*<sup>2</sup>
- Remote Group Add\*<sup>1</sup>
- 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\*<sup>1</sup>
- Emergency Status
- Caller ID Display
- Short Text Messages\*<sup>1</sup>

### ● MDC-1200

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

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

\*<sup>2</sup> These trunked features are primarily system programming and operational dependent. Priority Monitor also requires NX subscriber settings.



## Options

<p>■ <b>KMC-30</b> Microphone</p> 	<p>■ <b>KMC-9C</b> Control Station Desktop Microphone</p> 	<p>■ <b>KCT-46</b> Ignition Sense Cable</p> 	<p>■ <b>VGS-1</b> Voice Guide and Storage Unit</p> 
<p>■ <b>KMC-32</b> Microphone with Keypad</p> 	<p>■ <b>KES-5</b> External Speaker</p> 	<p>■ <b>KCT-23M</b> DC Cable (3 m)</p> 	<p>■ <b>KDI-03</b> DIN-size Mounting Bracket</p> 
<p>■ <b>KMC-35</b> Microphone</p> 	<p>■ <b>KRK-10</b> Panel Remote Kit</p> 	<p>■ <b>KCT-23M3</b> DC Cable (7 m)</p> 	
<p>■ <b>KMC-36</b> Microphone with Keypad</p> 	<p>■ <b>KAP-2</b> Horn Alert / PA Relay Unit</p> 	<p>■ <b>KLF-2</b> Line Noise Filter</p> 	<p>■ <b>KMB-10</b> Key Lock Adaptor</p> 

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	NX-800
<b>GENERAL</b>		
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) <small>Projections not included</small>	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. Kenwood reserves the right to change specifications without prior notice or obligation.

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

	NX-700	NX-800
<b>RECEIVER</b>		
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 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	
<b>TRANSMITTER</b>		
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)	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
Low Pressure	500.1/Procedure I	500.2/Procedure I, II	500.3/Procedure I, II	500.4/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
Low Temperature	502.1/Procedure I	502.2/Procedure I, II	502.3/Procedure I, II	502.4/Procedure I, II
Temperature Shock	503.1/Procedure I	503.2/Procedure I	503.3/Procedure I	503.4/Procedure I, II
Solar Radiation	505.1/Procedure I	505.2/Procedure I	505.3/Procedure I	505.4/Procedure I
Rain	506.1/Procedure I, II	506.2/Procedure I, II	506.3/Procedure I, II	506.4/Procedure I, III
Humidity	507.1/Procedure I, II	507.2/Procedure II, III	507.3/Procedure II, III	507.4
Salt Fog	509.1/Procedure I	509.2/Procedure I	509.3/Procedure I	509.4
Dust	510.1/Procedure I	510.2/Procedure I	510.3/Procedure I	510.4/Procedure I, III
Vibration	514.2/Procedure VIII, X	514.3/Procedure I	514.4/Procedure I	514.5/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
<b>International Protection Standard</b>				
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.

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ISO9001 Registered  
 Communications Equipment Division  
 Kenwood Corporation  
 ISO9001 certification