

### ● 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
- Over-the-Air Programming\*<sup>2</sup>
- 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
- 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\*<sup>3</sup>
- Transmission Trunked Mode\*<sup>3</sup>
- Message Trunked Mode\*<sup>3</sup>
- Call Queuing with Priority\*<sup>3</sup>
- Late Entry (UID & GID)\*<sup>3</sup>
- 4 Priority Monitor ID's\*<sup>3</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> Requires Kenwood OTAP Management software

<sup>3</sup> These trunked features are primarily system programming and operational dependent. Priority Monitor also requires NX subscriber settings.



## Options

<ul style="list-style-type: none"> <li><b>KMC-30</b> Microphone</li> <li><b>KMC-32</b> Microphone with Keypad</li> <li><b>KMC-35</b> Microphone</li> <li><b>KMC-36</b> Microphone with Keypad</li> </ul>	<ul style="list-style-type: none"> <li><b>KMC-9C</b> Control Station Desktop Microphone</li> <li><b>KES-5</b> External Speaker</li> <li><b>KRK-10</b> Panel Remote Kit</li> <li><b>KAP-2</b> Horn Alert / PA Relay Unit</li> </ul>	<ul style="list-style-type: none"> <li><b>KCT-46</b> Ignition Sense Cable</li> <li><b>KCT-23M</b> DC Cable (3 m)</li> <li><b>KCT-23M3</b> DC Cable (7 m)</li> <li><b>KLF-2</b> Line Noise Filter</li> </ul>	<ul style="list-style-type: none"> <li><b>VGS-1</b> Voice Guide and Storage Unit</li> <li><b>KDI-03</b> DIN-size Mounting Bracket</li> <li><b>KMB-10</b> Key Lock Adaptor</li> </ul>
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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
<b>GENERAL</b>		
<b>Frequency Range</b>	136-174 MHz	400-470 MHz
<b>Number of Channels</b>	512	
<b>Zones</b>	128	
<b>Max. Channels per Zone</b>	250	
<b>Channel Spacing</b>	<b>Analogue</b> 12.5 / 20 / 25 kHz <b>Digital</b> 6.25 / 12.5 kHz	
<b>Operating Voltage</b>	13.2 V DC (10.8 - 15.6 V DC)	
<b>Operating Temperature Range</b>	- 30°C to + 60°C	
<b>Frequency Stability</b>	± 1.7 ppm	± 1.0 ppm
<b>Antenna Impedance</b>	50 Ω	
<b>Dimensions (W x H x D)</b> Projections not included	160 x 45 x 157 mm	
<b>Weight (net)</b>	1.38 kg	
<b>Applicable Standards</b>	<b>ETSI R&amp;TTE</b> EN 300 086, EN 300 113, EN 300 219, EN 301 489, EN 301 166 <b>ETSI Safety</b> 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.

NEXEDGE® is a registered trademark of JVC KENWOOD Corporation.

	NX-700	NX-800
<b>RECEIVER</b>		
<b>Sensitivity (Analogue)</b> EIA 12dB SINAD	0.25 μV	
EN 20dB SINAD	-3 dB μV (0.35 μV)	
<b>Sensitivity (Digital)</b> 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)	
<b>Adjacent Channel Selectivity (Analogue)</b> (25kHz / 20kHz / 12.5kHz)	80 dB / 78 dB / 70 dB	78 dB / 76 dB / 68 dB
<b>Intermodulation (Analogue)</b>	70 dB	
<b>Spurious Response Rejection (Analogue)</b>	80 dB	
<b>Audio Distortion</b>	Less than 3%	
<b>Audio Output</b>	4 W / 4 Ω	
<b>TRANSMITTER</b>		
<b>RF Power Output</b>	1 - 25 W	
<b>Modulation Limiting (Analogue)</b>	± 5.0 kHz at 25 kHz ± 4.0 kHz at 20 kHz ± 2.5 kHz at 12.5 kHz	
<b>Spurious Emission</b>	-36 dBm ≤ 1 GHz, -30 dBm > 1 GHz	
<b>FM Noise (EIA)</b> (Analogue, 25kHz / 20kHz / 12.5kHz)	50 dB / 50 dB / 45 dB	
<b>Modulation Distortion</b>	Less than 3%	
<b>Modulation</b>	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
<b>Low Pressure</b>	500.1/Procedure I	500.2/Procedure I, II	500.3/Procedure I, II	500.4/Procedure I, II	500.5/Procedure I, II
<b>High Temperature</b>	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
<b>Low Temperature</b>	502.1/Procedure I	502.2/Procedure I, II	502.3/Procedure I, II	502.4/Procedure I, II	502.5/Procedure I, II
<b>Temperature Shock</b>	503.1/Procedure I	503.2/Procedure I	503.3/Procedure I	503.4/Procedure I, II	503.5/Procedure I
<b>Solar Radiation</b>	505.1/Procedure I	505.2/Procedure I	505.3/Procedure I	505.4/Procedure I	505.5/Procedure I
<b>Rain</b>	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
<b>Humidity</b>	507.1/Procedure I, II	507.2/Procedure II, III	507.3/Procedure II, III	507.4	507.5/Procedure II
<b>Salt Fog</b>	509.1/Procedure I	509.2/Procedure I	509.3/Procedure I	509.4	509.5
<b>Dust</b>	510.1/Procedure I	510.2/Procedure I	510.3/Procedure I	510.4/Procedure I, III	510.5/Procedure I
<b>Vibration</b>	514.2/Procedure VIII, X	514.3/Procedure I	514.4/Procedure I	514.5/Procedure I	514.6/Procedure I
<b>Shock</b>	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
<b>International Protection Standard</b>					
<b>Dust &amp; Water Protection</b>	IP54: Radio itself				
	IP54/55: Remote head with KRK-10				

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ISO9001 Registered  
Communications Equipment Division  
Professional Systems Business Group  
JVC KENWOOD Corporation