

### ● 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

### 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



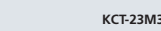
### KCT-46 Ignition Sense Cable



### KCT-23M DC Cable (3 m)



### KCT-23M3 DC Cable (7 m)



### KLF-2 Line Noise Filter



### VGS-1 Voice Guide and Storage Unit



### KDI-03 DIN-size Mounting Bracket



### KMB-10 Key Lock Adaptor



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>		
Frequency Range	136-174 MHz	400-470 MHz
Number of Channels	512	
Zones	128	
Max. Channels per Zone	250	
Channel Spacing	Analogue Digital	12.5 / 20 / 25 kHz 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. 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>		
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
<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)	(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
<b>International Protection Standard</b>					
Dust & Water Protection	IP54: Radio itself IP54/55: Remote head with KRK-10				