

#### GENERAL FEATURES

- 30W / 50W (136-174 MHz) Models
- 30W / 45W (400-470, 450-520 MHz) Models
- 512 CH-GID / 128 Zones
- Dash & Remote Mount
- Dual Control Head Remote Mount
- 14 Character Alphanumeric Aliases
- Backlit Dot Matrix LCD
- Function/Status LCD Icons
- Multi-Language Display
- 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
- 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/G
- IP-54/55 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 – COMMON

- NXDN® Digital Air Interface
- AMBE+2™ VOCODER
- 6.25 & 12.5 kHz Channels
- Over-the-Air Alias
- Over-the-Air Programming
- Paging Call
- Emergency Call
- All Group Call
- Status Messaging<sup>1</sup>
- Remote Stun/Kill<sup>1</sup>

#### DIGITAL – COMMON (Cont)

- Remote Check<sup>1</sup>
- Short & Long Data Messages<sup>1</sup>
- GPS Location with Voice<sup>1</sup>
- NXDN® Scrambler Included
- DES Encryption Module Option
- AES & DES Encryption Module Option
- AES/DES Software Key Loader Option

#### 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 NETWORKS COMPATIBLE

- Individual Private Call
- Group Call & Broadcast Call
- Transmission Trunked Mode<sup>2</sup>

#### MULTI-SYSTEM COMPATIBLE

- 8 Trunked Networks<sup>3</sup>
- UID Lists for each network

#### SCAN

- Single Zone / Multi-Zone / List Scan
- Dual Priority Scan (Conventional)

#### ANALOG MODE - GENERAL

- 25 & 12.5 kHz Channels
- Conventional & LTR® or MPT Zones
- FleetSync®/II, MDC-1200, DTMF
- QT / DQT & Two-Tone (Conventional Zones Only)
- Voice Inversion Scrambler (16 Codes)

#### MPT ZONES\*

- Single-Site Trunking
- Multi-Site Network Trunking
- 8 Network Capacity
- Network Roaming / Registration

#### FleetSync®II (FM)

- PTT ID ANI / Caller ID
- Selective / Group Call
- Emergency, Status & Text Messages<sup>1</sup>

#### MDC-1200

- PTT ID ANI / Caller ID
- Emergency, Radio Check & Inhibit

\* Optional feature



## Options

<ul style="list-style-type: none"> <li><b>KMC-35</b> Microphone</li> <li><b>KMC-36</b> Microphone with Keypad</li> <li><b>KMC-9C</b> Control Station Desktop Microphone</li> <li><b>KES-5</b> External Speaker</li> </ul>	<ul style="list-style-type: none"> <li><b>VGS-1</b> Voice Guide &amp; Storage Unit</li> <li><b>KRK-10</b> Panel Remote Kit</li> <li><b>KRK-13</b> Dual Control Head Remote Kit</li> <li><b>KPS-15</b> DC Power Supply</li> </ul>	<ul style="list-style-type: none"> <li><b>KAP-2</b> Horn Alert / PA Relay Unit</li> <li><b>KCT-23M</b> DC Cable (10 feet)</li> <li><b>KCT-23M3</b> DC Cable (23 feet)</li> </ul>	<ul style="list-style-type: none"> <li><b>KCT-46</b> Ignition Sense Cable</li> <li><b>KMB-10</b> Key Lock Adapter</li> <li><b>KLF-2</b> Line Noise Filter</li> </ul>
---	--	--	--

## Main Specifications

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.

		NX-700(H) K	NX-800(H) K
<b>GENERAL</b>			
<b>Frequency Range</b>	Type 1 Type 2	136-174 MHz	450-520 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>Analog</b> <b>Digital</b>	12.5 / 15 / 25 / 30 kHz 6.25 / 12.5 kHz	12.5 / 25 kHz 6.25 / 12.5 kHz
<b>Operating Voltage</b>		13.6 V DC ± 15%	
<b>Operating Temperature Range</b>		-22° F to +140° F (-30° C to +60° C)	
<b>Frequency Stability</b>		± 1.0 ppm	
<b>Antenna Impedance</b>		50 Ω	
<b>Dimensions (W x H x D)</b>	Projections not included	6.30 x 1.77 x 6.18 in (160 x 45 x 157 mm)	
<b>Weight (net)</b>		3.04 lb (1.38 kg)	
<b>FCC ID</b>	<b>K</b> Type 1 <b>K</b> Type 2 <b>HK</b> Type 1 <b>HK</b> Type 2	K44378602	K44378704 K44378705 K44378704 K44378705
<b>IC Certification</b>	<b>K</b> Type 1 <b>K</b> Type 2 <b>HK</b> Type 1 <b>HK</b> Type 2	282F-378602	282F-378704 282F-378705 282F-378704 282F-378705

Analog measurements made per 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 JVCKENWOOD 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 trademark of JVCKENWOOD Corporation and Icom Inc.  
NEXEDGE® is a trademark of JVCKENWOOD Corporation.

		NX-700(H) K	NX-800(H) K
<b>RECEIVER</b>			
<b>Sensitivity</b>	<b>Digital @ 6.25 kHz (3% BER)</b> <b>Digital @ 12.5 kHz (3% BER)</b> <b>Analog (12 dB SINAD)</b>	0.20 μV 0.28 μV 0.25 μV	0.20 μV 0.25 μV 0.25 μV
<b>Selectivity</b>	<b>Analog @ 25 kHz</b> <b>Analog @ 12.5 kHz</b>	80 dB 70 dB	80 dB 70 dB
<b>Intermodulation</b>	<b>Analog</b>	75 dB (±50,100 kHz)	
<b>Spurious Response</b>	<b>Analog</b>	90 dB	85 dB
<b>Audio Distortion</b>		Less than 3%	
<b>Audio Output</b>		4 W / 4 Ω	
<b>TRANSMITTER</b>			
<b>RF Power Output</b>	<b>Mid Power</b>	30 W to 1 W	30 W to 1 W 25 W to 1 W (490-520 MHz)
	<b>High Power</b>	50 W to 10 W	45 W to 10 W 40 W to 10 W (490-512 MHz) 35 W to 10 W (512-520 MHz)
<b>Spurious Response</b>		73 dB	75 dB
<b>FM Hum &amp; Noise</b>	<b>Analog @ 25 kHz</b> <b>Analog @ 12.5 kHz</b>	50 dB 45 dB	50 dB 45 dB
<b>Audio Distortion</b>		Less than 3%	
<b>Modulation</b>		16K0F3E, 14K4F1D, 11K0F3E, 8K30F1E 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D	

Footnotes from front:

<sup>1</sup> Requires compatible PC software application or console.

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

<sup>3</sup> Up to 8 different Trunked networks can be configured per radio (each in a zone)

## 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, V	516.3/Procedure I, IV	516.4/Procedure I, IV	516.5/Procedure I, IV	516.6/Procedure I, IV
<b>International Protection Standard</b>					
<b>Dust &amp; Water Protection</b>	IP54: Radio itself IP54/55: Remote head				

# KENWOOD

JVCKENWOOD USA Corporation

Communications Sector Headquarters

3970 Johns Creek Court, Suite 100, Suwanee, GA 30024-1265

Order Administration/Distribution

P.O. BOX 22745, 2201 East Dominguez St., Long Beach, CA 90801-5745

[www.kenwood.com/usa](http://www.kenwood.com/usa)

JVCKENWOOD Canada Inc.

Canadian Headquarters and Distribution

6070 Kestrel Road, Mississauga, Ontario, Canada L5T 1S8

[www.kenwood.ca](http://www.kenwood.ca)



ISO9001 Registered  
JVCKENWOOD Corporation

ADS#08415 Printed in USA