

# KENWOOD

## NEXEDGE®

# NX-700(H)/800(H)

NEXEDGE® VHF/UHF Digital & FM Mobile Radios

**NXDN®** **FleetSync®**

### ● GENERAL FEATURES

- 30W / 50W (136-174 MHz) Models
- 30W / 45W (400-470, 450-520 MHz) Models
- 512 CH-GID / 128 Zones
- Dash & 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>
- 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>

### ● SCAN

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

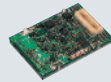


## Options

**KMC-35**  
Microphone



**VGS-1**  
Voice Guide  
& Storage Unit



**KAP-2**  
Horn Alert  
/ PA Relay Unit



**KCT-46**  
Ignition Sense Cable



**KMC-36**  
Microphone  
with Keypad



**KRK-10**  
Panel Remote Kit



**KCT-23M**  
DC Cable (10 feet)



**KMB-10**  
Key Lock Adapter



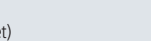
**KMC-9C**  
Control Station  
Desktop Microphone



**KPS-15**  
DC Power Supply



**KCT-23M3**  
DC Cable (23 feet)



**KLF-2**  
Line Noise Filter



## 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.

GENERAL			NX-700(H) K	NX-800(H) K
<b>Frequency Range</b>	Type 1		136-174 MHz	450-520 MHz
	Type 2			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>		12.5 / 15 / 25 / 30 kHz	12.5 / 25 kHz
	<b>Digital</b>		6.25 / 12.5 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	K44378600	K44378700
	<b>K</b>	Type 2		K44378701
	<b>HK</b>	Type 1	K44378601	K44378702
	<b>HK</b>	Type 2		K44378703
<b>IC Certification</b>	<b>K</b>	Type 1	282F-378600	282F-378700
	<b>K</b>	Type 2		282F-378701
	<b>HK</b>	Type 1	282F-378601	282F-378702
	<b>HK</b>	Type 2		282F-378703

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 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 trademark of JVC KENWOOD Corporation and Icom Inc.  
NEXEDGE® is a trademark of JVC KENWOOD Corporation.

RECEIVER		NX-700(H) K	NX-800(H) K
<b>Sensitivity</b>	<b>Digital @ 6.25 kHz (3% BER)</b>	0.20 μV	
	<b>Digital @ 12.5 kHz (3% BER)</b>	0.28 μV	
	<b>Analog (12 dB SINAD)</b>	0.25 μV	
<b>Selectivity</b>	<b>Analog @ 25 kHz</b>	80 dB	
	<b>Analog @ 12.5 kHz</b>	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	
TRANSMITTER			
<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>	50 dB	
	<b>Analog @ 12.5 kHz</b>	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.

## 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
International Protection Standard					
<b>Dust &amp; Water Protection</b>	IP54: Radio itself IP54/55: Remote head with KRK-10				

# KENWOOD

Kenwood U.S.A. 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

Kenwood Electronics Canada Inc.  
Canadian Headquarters and Distribution  
6070 Kestrel Road, Mississauga, Ontario, Canada L5T 1S8  
www.kenwood.ca



www.kenwoodusa.com



ISO9001 Registered  
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Professional Systems Business Group  
JVC KENWOOD Corporation

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