

# KENWOOD

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

### NEXEDGE®

NEXEDGE® VHF/UHF Digital & FM Mobile Radios

**NXDN® MPT1327 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
- 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

<p><b>KMC-35</b> Microphone</p> 	<p><b>VGS-1</b> Voice Guide &amp; Storage Unit</p> 	<p><b>KAP-2</b> Horn Alert / PA Relay Unit</p> 	<p><b>KCT-46</b> Ignition Sense Cable</p> 
<p><b>KMC-36</b> Microphone with Keypad</p> 	<p><b>KRK-10</b> Panel Remote Kit</p> 	<p><b>KCT-23M</b> DC Cable (10 feet)</p> 	<p><b>KMB-10</b> Key Lock Adapter</p> 
<p><b>KMC-9C</b> Control Station Desktop Microphone</p> 	<p><b>KRK-13</b> Dual Control Head Remote Kit</p> 	<p><b>KCT-23M3</b> DC Cable (23 feet)</p> 	<p><b>KLF-2</b> Line Noise Filter</p> 
<p><b>KES-5</b> External Speaker</p> 	<p><b>KPS-15</b> DC Power Supply</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

GENERAL		NX-700(H) K	NX-800(H) K
Frequency Range	Type 1 Type 2	136-174 MHz	450-520 MHz 400-470 MHz
Number of Channels		512	
Zones		128	
Max. Channels per Zone		250	
Channel Spacing	Analog Digital	12.5 / 15 / 25 / 30 kHz 6.25 / 12.5 kHz	12.5 / 25 kHz 6.25 / 12.5 kHz
Operating Voltage		13.6 VDC ± 15%	
Operating Temperature Range		-22° F to +140° F (-30° C to +60° C)	
Frequency Stability		± 1.0 ppm	
Antenna Impedance		50 Ω	
Dimensions (W x H x D)	Projections not included	6.30 x 1.77 x 6.18 in (160 x 45 x 157 mm)	
Weight (net)		3.04 lb (1.38 kg)	
FCC ID	K Type 1 K Type 2 HK Type 1 HK Type 2	K44378602	K44378704 K44378705 K44378704 K44378705
IC Certification	K Type 1 K Type 2 HK Type 1 HK 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 IVCKENWOOD Corporation.  
 ITR® 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 IVCKENWOOD Corporation and Icom Inc.  
 NEXEDGE® is a trademark of IVCKENWOOD Corporation.

		NX-700(H) K	NX-800(H) K
<b>RECEIVER</b>			
Sensitivity	Digital @ 6.25 kHz (3% BER) Digital @ 12.5 kHz (3% BER) Analog (12 dB SINAD)	0.20 μV 0.28 μV 0.25 μV	0.20 μV 0.28 μV 0.25 μV
Selectivity	Analog @ 25 kHz Analog @ 12.5 kHz	80 dB 70 dB	80 dB 70 dB
Intermodulation	Analog	75 dB (±50, 100 kHz)	
Spurious Response	Analog	90 dB	85 dB
Audio Distortion		Less than 3%	
Audio Output		4 W / 4 Ω	
<b>TRANSMITTER</b>			
RF Power Output	Mid Power	30 W to 1 W	30 W to 1 W 25 W to 1 W (490-520 MHz)
	High Power	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)
Spurious Response		73 dB	75 dB
FM Hum & Noise	Analog @ 25 kHz Analog @ 12.5 kHz		50 dB 45 dB
Audio Distortion		Less than 3%	
Modulation		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
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, II
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, 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>					
Dust & Water Protection	IP54: Radio itself IP54/55: Remote head				

AUTHORIZED DEALER

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