

KENWOOD

Listen to the Future

NEXEDGE™

NX-700(H)/800(H)

NEXEDGE™ VHF/UHF Digital & FM Mobile Radios

NXDN®

FleetSync®
by KENWOOD

● GENERAL FEATURES

- 30 W / 50 W (136-174 MHz) Models
- 30 W / 45 W (400-470, 450-520 MHz) Models
- 512 CH-GID / 128 Zones
- Dash & Remote Mount
- 14 Character Alphanumeric Aliases
- Backlit Dot Matrix LCD
- 3-Digit Sub-Display
- Function/Status LCD Icons
- RSSI Indicator
- 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
- Programmable TX/RX Indication (On/Off)
- Special Alert Tone Patterns
- Time Out Timer
- Busy Channel Lockout
- DB-25 Accessory Connector
- 9 Programmable AUX I/Os
- 2 Programmable AUX Outputs
- Ignition Sense
- Public Address / Horn Alert Option
- MIL-Spec Standard Mic
- MIL-Spec 12-Key DTMF Mic Option
- KPG-111D Windows® FPU
- Flash Firmware Upgrading
- Front Panel Test & Tune
- Cloning
- MIL-STD-810 C/D/E/F
- MIL-STD "Driven-Rain"
- IP54/55 Water & Dust Intrusion
- Easy Option Port
- PC Serial Interface
- SDM Manual Input*¹
- Transparent Data Mode*¹
- 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
- Paging Call
- Emergency Call
- All Group Call
- Status Messaging*¹
- Remote Stun/Kill*¹
- Remote Check*¹
- Short & Long Data Messages*¹
- GPS Location with Voice*¹
- Advanced Transparent Data Mode*¹
- NXDN® Scrambler Included

● 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*²
- Message Trunked Mode*²
- Call Queuing with Priority*²
- Late Entry (UID & GID)*²
- 4 Priority Monitor ID's*²
- Remote Group Add*¹
- Failsoft Mode

● MULTI-SITE IP NETWORKS 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 & 12.5 kHz Channels
- FleetSync®/II
- DTMF Encode/Decode
- Companded Audio
- Voice Inversion Scrambler
- ANI Board Control
- Analog Scrambler Board Capability

● FM CONVENTIONAL ZONES

- QT / DQT
- Two-Tone Decode
- Single/Two-Tone Encode
- 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*¹
- Emergency Status
- Caller ID Display
- Short Text Messages*¹
- Power On/Off Status Messages*¹
- Input/Output Status Messages*¹
- Send/Display GPS*¹
- PTT ID & Emergency GPS Reporting*¹
- Status Message Block GPS Reporting*¹
- Ignition On/Off GPS Reporting*¹

*¹ Requires NX subscriber unit PC Serial Interface compatible software application (e.g. Kenwood AVL & Dispatch Messaging software) or hardware (e.g. console).

*² These trunked features are primarily system programming and operational dependent. Priority Monitor also requires NX subscriber settings.



Options

■ **KMC-30**
Microphone



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



■ **KCT-46**
Ignition Sense Cable



■ **KLF-2**
Line Noise Filter



■ **KMC-32**
Microphone
with Keypad



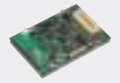
■ **KES-5**
External Speaker



■ **KCT-23M**
DC Cable (3 m)



■ **VGS-1**
Voice Guide
and Storage Unit



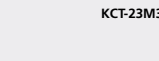
■ **KMC-35**
Microphone



■ **KRK-10**
Panel Remote Kit



■ **KCT-23M3**
DC Cable (7 m)



■ **KMB-10**
Key Lock Adaptor



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

		NX-700(H)	NX-800(H)
GENERAL			
Frequency Range	Type 1	136-174 MHz	450-520 MHz
	Type 2		400-470 MHz
Number of Channels		512	
Zones		128	
Max. Channels per Zone		250	
Channel Spacing	Analog	12.5 / 15 / 25 / 30 kHz	12.5 / 25 kHz
	Digital	6.25 / 12.5 kHz	6.25 / 12.5 kHz
Operating Voltage		13.6 V DC ± 15%	
Operating Temperature Range		-30° C to +60° C (-22° F to +140° F)	
Frequency Stability		± 1.0 ppm	
Antenna Impedance		50 Ω	
Dimensions (W x H x D)	Projections not included	160 x 45 x 157 mm	
Weight (net)		1.38 kg	

Analog measurements made per TIA/EIA 603 and specifications shown are typical. Kenwood reserves the right to change specifications without prior notice or obligation.

FleetSync® is a registered trademark of 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 Kenwood Corporation and Icom Inc.
NEXEDGE™ is a trademark of Kenwood Corporation in U.S.A. and some countries.

		NX-700(H)	NX-800(H)
RECEIVER			
Sensitivity	Digital @ 6.25 kHz (3% BER)	0.20 μV	
	Digital @ 12.5 kHz (3% BER)	0.28 μV	
	Analog (12 dB SINAD)	0.25 μV	
Selectivity	Analog @ 25 kHz	80 dB	
	Analog @ 12.5 kHz	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	
TRANSMITTER			
RF Power Output	Mid Power	30 W to 1 W	30 W to 1 W
	High Power	50 W to 10 W	25 W to 1 W (490-520 MHz) 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	50 dB	
	Analog @ 12.5 kHz	45 dB	
Audio Distortion		Less than 3%	
Modulation		16K0F3E, 14K4F1D, 11K0F3E, 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
Low Pressure	500.1/Procedure I	500.2/Procedure I, II	500.3/Procedure I, II	500.4/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
Low Temperature	502.1/Procedure I	502.2/Procedure I, II	502.3/Procedure I, II	502.4/Procedure I, II
Temperature Shock	503.1/Procedure I	503.2/Procedure I	503.3/Procedure I	503.4/Procedure I, II
Solar Radiation	505.1/Procedure I	505.2/Procedure I	505.3/Procedure I	505.4/Procedure I
Rain	506.1/Procedure I, II	506.2/Procedure I, II	506.3/Procedure I, II	506.4/Procedure I, III
Humidity	507.1/Procedure I, II	507.2/Procedure II, III	507.3/Procedure II, III	507.4
Salt Fog	509.1/Procedure I	509.2/Procedure I	509.3/Procedure I	509.4
Dust	510.1/Procedure I	510.2/Procedure I	510.3/Procedure I	510.4/Procedure I, III
Vibration	514.2/Procedure VIII, X	514.3/Procedure I	514.4/Procedure I	514.5/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
International Protection Standard				
Dust & Water Protection	IP54: Radio itself			
	IP54/55: Remote head with KRK-10			

Listen to the Future

Kenwood has always connected with people through sound. Now we want to expand the world of sound in ways that only Kenwood can, listening to our customers and to the pulse of the coming age as we head toward a future of shared discovery, inspiration and enjoyment.

Kenwood Corporation

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ISO9001 Registered
Communications Equipment Division
Kenwood Corporation
ISO9001 certification