

KENWOOD

Listen to the Future

NEXEDGE™

NX-700(H)/800(H)

NEXEDGE™ VHF/UHF Digital & FM Mobile Radios

NXDN™

FleetSync®
by KENWOOD

● 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
- 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
- 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"
- IP-54/55 Water & Dust Intrusion
- Easy Option Port
- PC Serial Interface
- GPS Receiver Option
- VGS-1 Voice Guide/Storage Option

● DIGITAL – COMMON

- 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 Messaging¹
- Remote Stun/Kill¹
- Remote Check¹
- Short & Long Data Messages¹
- GPS Location with Voice¹
- NXDN™ Scrambler Included

● DIGITAL CONVENTIONAL MODE

- 64 Radio Access Numbers (RAN)
- Individual & Group Selective Call
- Mixed FM/Digital Operation

● DIGITAL TRUNKING MODE

- Individual Private Call
- Group Call
- Broadcast Call
- Transmission Trunked Mode²
- Message Trunked Mode²
- Call Queuing with Priority²
- Call Queue Pre-emption²
- Late Entry (UID & GID)²
- 4 Priority Monitor ID's²
- Remote Group Add¹
- Multi-Site IP Network Compatible

● SCAN

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

● FM MODES - GENERAL

- 25 & 12.5 kHz Channels
- FleetSync®/II
- DTMF Encode/Decode
- Companded Audio
- Voice Inversion Scrambler
- Encryption/ANI Board Control

● FM CONVENTIONAL ZONES

- QT / DQT
- Two-Tone Decode
- Single/Two-Tone Encode
- Call Key 1-6
- Operator Selectable Tone

● FM LTR® TRUNKED ZONES

- Kenwood LTR® Features

● FleetSync®/II (FM)

- PTT ID Digital ANI
- Selective Call & Group Call
- Status Messaging¹
- Emergency Status
- Caller ID Display
- Short Text Messages¹
- Power On/Off Status Messages¹
- Input/Output Status Messages¹
- Send/Display GPS¹
- PTT ID & Emergency GPS Reporting¹
- Status Message Block GPS Reporting¹
- Ignition On/Off GPS Reporting¹
- VGS-1 GPS Data Storage



KenwoodLandMobileRadio
25Years

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)

KCT-23M3

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
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 V DC ± 15%	
Operating Temperature Range		-22° F to +140° F (-30° C to +60° C)	
Frequency Stability		± 2.0 ppm ± 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	K44378600 K44378601	K44378700 (Pending) K44378702 (Pending)
IC Certification	K Type 1 K Type 2 HK Type 1 HK Type 2	282F-378600 282F-378601	282F-378700 (Pending) 282F-378702 (Pending)

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 trademark of Kenwood Corporation and Icom Inc.
NEXEDGE™ is a trademark of Kenwood Corporation.

RECEIVER		NX-700(H) K	NX-800(H) K
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	
TRANSMITTER			
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:

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.

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.

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