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
- 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"
- IP-54/55 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 – 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 Messaging[1]
- Remote Stun/Kill[1]
- Remote Check[1]
- Short & Long Data Messages[1]
- GPS Location with Voice[1]
- NXDN® Scrambler Included (Conventional: per CH)

DIGITAL CONVENTIONAL MODE

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

DIGITAL TRUNKING MODE

- Individual Private Call
- Group Call
- Broadcast Call
- Transmission Trunked Mode[2]
- Message Trunked Mode[2]
- Call Queuing with Priority[2]
- Call Queue Pre-emption[2]
- Late Entry (UID & GID)[2]
- 4 Priority Monitor ID's[2]
- Remote Group Add[1]
- Failsoft Mode
- 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 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]

Options

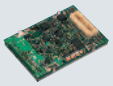
KMC-35
Microphone

KMC-36
Microphone
with Keypad

KMC-9C
Control Station
Desktop Microphone

KES-5
External Speaker

VGS-1
Voice Guide
& Storage Unit



KRK-10
Panel Remote Kit

KPS-15
DC Power Supply

KAP-2
Horn Alert
/ PA Relay Unit

KCT-23M
DC Cable (10 feet)

KCT-23M3

KCT-23M3
DC Cable (23 feet)

KCT-46
Ignition Sense Cable

KMB-10
Key Lock Adapter

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.

			NX-700(H) K	NX-800(H) K
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			-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	K44378600	K44378700
	K	Type 2		K44378701
	HK	Type 1	K44378601	K44378702
	HK	Type 2		K44378703
IC Certification	**K**	Type 1	282F-378600	282F-378700
	K	Type 2		282F-378701
	HK	Type1	282F-378601	282F-378702
	HK	Type 2		282F-378703

		NX-700(H) K	NX-800(H) K
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 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**	50 dB	
	Analog @ 12.5 kHz	45 dB	
Audio Distortion		Less than 3%	
Modulation		16K0F3E, 14K4F1D, 11K0F3E, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D	

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

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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