KENWOOD

NEXEDGE®

One Radio with Multi-Protocol Support

NX-1700H/1800H

VHF/UHF TRANSCEIVERS

NXDN® DMR DMR Auto Slot Select FleetSync®

SOUND PERFORMANCE, SMOOTH OPERATION

Emulating the distinguished NX-3000 and NX-5000 series, the NX-1700H/1800H mobile radio supports multiple protocols including NXDN and DMR as well as mixed digital & FM analog operation. As it's packed with all the features essential for numerous enterprise and operation-critical applications. It's also equipped with optimizable TX/RX audio quality, and a customizable front panel that prioritizes simple convenience: operational status is clear at a glance from the white backlit LCD display and 7-color LED indicator.

Features

"One Radio" with Multi-protocol Support:
Designed to operate under an NXDN or DMR digital, and FM analog protocols

Upgradable Digital/Analog mode by software option (no firmware upgrade required)

Easy visible, white backlit LCD display:
Alphanumeric, 10-digit, 13-character frame (aliases and icons)

7-color LED indicator used to display various radio status

Renowned KENWOOD Audio Quality: 6 W (max)loud audio and optimizable TX/RX audio profile: Audio Equalizer, Auto Gain Control (TX/RX) and Microphone type settings

Max. 260 Channels per radio, 128 Zones per radio, and 250 Channels per zone

Various scan functions: Dual/Single Priority scan, Multi/Single Zone scan and more

Orange-colored Emergency button & Customizable Emergency functions

Lone Worker

Remote Stun, Kill, Check

Dual Priority Scan

Max/Min Volume setting

Voice Announcement

Electronic Serial Number (ESN)

Display Customization

D-sub, 15-pin GPIO and audio connector

GPS connectivity (Optional receiver required)

Horn Alert and Public Address

Ignition Sense

3.5 mm audio jack for external speaker

IP54 and MIL-STD 810C/D/E/F/G/H

Digital – NXDN® Mode

FDMA – Very Narrow 6.25 kHz and Narrow 12.5 kHz Bandwidths

NXDN Conventional:

Voice and Data Services

Site Roaming

Digital / Analog Mixed Mode

Group / Individual Call

Status / Short Data, Paging Call

Remote Stun Kill, Monitor, Check & Control

GPS Combination with additional module

Mixed mode

Late Entry

Digital Bit Scrambler

Over-the-Air Alias (OAA)

Transparent Data

Digital – DMR Mode

TDMA – 2-slot 12.5 KHz Bandwidth Equivalent to 6.25 KHz Very Narrow Bandwidths

DMR Tier II Conventional: Voice and Data services

Site Roaming

DMR Auto Slot Select

Dual-slot Direct Mode

Call Interruption

Group / Individual Call

Status / Short Data, Paging Call

Remote Stun Kill, Monitor, Check & Control

GPS Combination with additional module

Digital / Analog Mixed Mode

Digital bit Scrambler

ARC4 Enhanced Encryption (Optional)

Late Entry

Over-the-Air Alias (OAA)

FM Modes – General

FM Conventional

FleetSync/II: PTT ID, Stun/Revive, Mute hold, Talk back, Selcall

MDC-1200: PTT ID ANI / Radio Inhibit / Uninhibit, Radio Check, Emergency

QT / DQT, DTMF, 2-Tone

Built-in Voice Inversion Scrambler per channel

Compander Function per channel

Accessories

All accessories may not be available in all markets.
Contact an authorized Kenwood dealer for details and complete list of all accessories.

KMC-9C
Desktop Microphone (non TDMA)

KMC-59C
Desktop Microphone

KMC-60
Microphone

KMC-62
16-Keypad Microphone

KMC-65M
Microphone [IP54/55]

KMC-66M
12-Keypad Microphone [IP54/55]

KES-5A
20W External Speaker (Requires KCT-60)

KES-9P
10W External Speaker

KCT-18
Ignition Sense Cable (Requires KCT-60)

KCT-23
DC Power Cable

KCT-60
Connection cable (D-sub 15 to Molex 15 pin connector)

KLF-2
Line Filter

KMB-10
Key Lock Adapter

KPS-15
DC Power Supply (23A max)

KMB-34
Mounting Case for KPS-15

Specifications

General	NX-1700H	NX-1800H
Frequency Range	136-174 MHz	400-470 MHz
Max. Channels Per Radio	260	
Number of Zones	128	
Number of Channels per Zone	250	
Channel Spacing		
Analog	12.5/25 kHz	
Digital	6.25/12.5 kHz	
Power Supply	13.6 V DC ±15%	
Current Drain		
Standby	0.45 A	
RX	2.4 A	
TX	13 A	
Operating Temperature	-22ºF to +140ºF (-30ºC to +60ºC)	
Frequency Stability	± 0.5 ppm	
Dimensions	(W x H x D) Projections Not Included 6.34 x 1.69 x 6.62 in. (161 x 43 x 168.2 mm.)	
Weight Radio	2.67 lbs (1.21 kg)	
ISED Certification		
Type 1	282F-517000	282F-517100
Type 2		

Analog measurements made per TIA603. Specifications are measured according to applicable standards.
Specifications shown are typical and subject to change without notice, due to advancements in technology.

Receiver	NX-1700H	NX-1800H
Sensitivity		
NXDN* 6.25 kHz Digital (3% BER)	0.18 µV	
NXDN*12.5 kHz Digital (3% BER)	0.22 µV	
DMR Digital 12 kHz (5% BER)	0.18 µV	
Analog 12 kHz (12dB SINAD)	0.20 µV	
Analog 25 kHz (12dB SINAD)	0.24 µV	
Selectivity		
Analog @ 12.5kHz	65 dB	
Analog @ 25kHz	81 dB	
Intermodulation	73 dB	
Spurious Rejection	75 dB	
Audio Distortion	3%	
Audio Output Power	6 W/ 4 W 4 Ω	

Transmitter	NX-1700H	NX-1800H
RF Power Output	50 W / 25 W / 5 W	45 W / 25 W / 5 W
Spurious Emission	-73 dB	-75 dB
FM Hum & Noise		
Analog @ 12.5kHz	40 dB	
Analog @ 25kHz	50 dB	
Audio Distortion	3%	
Emission Designator	16K0F3E, 11K0F3E, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D, 7K60FXD, 7K60FXW, 7K60FXE, 7K60F1E, 7K60F1D, 7K60F1W	

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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	MIL 810H 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	500.6/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	501.7/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	502.7/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	503.7/Procedure I
Solar Radiation	505.1/Procedure I	505.2/Procedure I	505.3/Procedure I	505.4/Procedure I	505.5/Procedure I	505.7/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, III	506.6/Procedure I, III
Humidity	507.1/Procedure I, II	507.2/Procedure II, III	507.3/Procedure II, III	507.4	507.5/Prcedure II	507.6/Prcedure II
Salt Fog	509.1/Procedure I	509.2/Procedure I	509.3/Procedure I	509.4	509.5	509.7
Dust	510.1/Procedure I	510.2/Procedure I	510.3/Procedure I	510.4/Procedure I, III	510.5/Procedure I	510.7/Procedure I
Vibration	514.2/Procedure VIII, X	514.3/Procedure I	514.4/Procedure I	514.5/Procedure I	514.6/Procedure I	514.8/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	516.6/Procedure I, IV, V	516.8/Procedure I, IV, V, VI

International Protection Standard		
Dust & Water Protection*1	IP54 (per IEC60529)	

*1 All interfaces must be fully sealed with appropriate covers or by designated genuine accessories

JVCKENWOOD Canada Inc.
6685 Millcreek Drive, Unit 8, Mississauga, ON L5N 5M5
www.kenwood.com/ca

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