

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

- | | |
|---|---|
| <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> 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

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|--|---|
| <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> 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) |
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FM Modes – General

- | | |
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| <ul style="list-style-type: none"> FM Conventional FleetSync/II: PTT ID, Stun/Revive, Mute hold, Talk back, Selcall MDC-1200: PTT ID ANI / Radio Inhibit / Uninhibit, Radio Check, Emergency | <ul style="list-style-type: none"> QT / DQT, DTMF, 2-Tone Built-in Voice Inversion Scrambler per channel Compander Function per channel |
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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-65M
Microphone
[IP54/55]



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



KMB-10
Key Lock Adapter



KMC-59C
Desktop
Microphone



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



KCT-23
DC Power Cable



KPS-15
DC Power Supply
(23A max)



KMC-60
Microphone



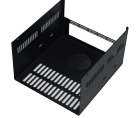
KES-5A
20W External Speaker
(Requires KCT-60)



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



KMB-34
Mounting Case
for KPS-15



KMC-62
16-Keypad
Microphone



KES-9P
10W External Speaker



KLF-2
Line Filter



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	-22°F to +140°F (-30°C to +60°C)	
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	5001/Procedure I	5002/Procedure I, II	5003/Procedure I, II	5004/Procedure I, II	5005/Procedure I, II	5006/Procedure I, II
High Temperature	5011/Procedure I, II	5012/Procedure I, II	5013/Procedure I, II	5014/Procedure I, II	5015/Procedure I, II	5017/Procedure I, II
Low Temperature	5021/Procedure I	5022/Procedure I, II	5023/Procedure I, II	5024/Procedure I, II	5025/Procedure I, II	5027/Procedure I, II
Temperature Shock	5031/Procedure I	5032/Procedure I	5033/Procedure I	5034/Procedure I, II	5035/Procedure I	5037/Procedure I
Solar Radiation	5051/Procedure I	5052/Procedure I	5053/Procedure I	5054/Procedure I	5055/Procedure I	5057/Procedure I
Rain	5061/Procedure I, II	5062/Procedure I, II	5063/Procedure I, II	5064/Procedure I, III	5065/Procedure I, III	5066/Procedure I, III
Humidity	5071/Procedure I, II	5072/Procedure II, III	5073/Procedure II, III	5074	5075/Procedure II	5076/Procedure II
Salt Fog	5091/Procedure I	5092/Procedure I	5093/Procedure I	5094	5095	5097
Dust	5101/Procedure I	5102/Procedure I	5103/Procedure I	5104/Procedure I, III	5105/Procedure I	5107/Procedure I
Vibration	5142/Procedure VIII, X	5143/Procedure I	5144/Procedure I	5145/Procedure I	5146/Procedure I	5148/Procedure I
Shock	5162/Procedure I, II, III, V	5163/Procedure I, IV, V	5164/Procedure I, IV, V	5165/Procedure I, IV, V	5166/Procedure I, IV, V	5168/Procedure I, IV, V, VI

International Protection Standard

Dust & Water Protection* IP54 (per IEC60529)

* 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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Communications Systems Business Unit
JVCKENWOOD Corporation

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