

## NX-1700H/1800H

VHF/UHF TRANSCEIVERS



### 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
- 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
- NXDN Type-D Trunking (Optional)
- 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)



**KES-5A**  
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-59C**  
Desktop  
Microphone



**KES-8K**  
External Speaker



**KLF-2**  
Line Filter



**GPS15XL-W**  
GPS Receiver Board



**KMC-65M**  
Microphone  
[IP54/55]



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



**KMB-10**  
Key Lock Adapter



**GA25MCX**  
GPS Antenna  
for GPS15XL-W



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



**KCT-23**  
DC Power Cable



**KPS-15**  
DC Power Supply  
(23A max)



# 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)	
FCC ID		
Type 1	K44517000	K44517100 (Pending)
Type 2		
ISED Certification		
Type 1	282F-517000	282F-517100 (Pending)
Type 2		

\*25/30 kHz in VHF/UHF Bands are not included in the models sold in the USA or US territories. 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.

\*\* Future release

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

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