

## NX-5600HB

### VHF LOW BAND DIGITAL TRANSCEIVER

The NX-5600HB is a 110-watt mobile transceiver that supports NXDN digital protocol and FM analog for mixed operation. This high-power VHF Low Band RF deck – equipped with Bluetooth®, GPS and a memory card slot – requires one of several optional remote control heads, all of which offer an intuitive controls for easy operation. The versatile NX-5600HB can be combined with other RF decks and multiple remote control heads to create a radio system that is tailored to your specific needs, thanks to a wide selection of accessories.

\*Note that the NX-5600HB mobile series only supports NXDN 12.5 kHz Conventional digital CAI; P25, DMR, NXDN Trunked digital CAIs and NXDN 6.25 kHz channel spacing mode are not supported.

**NXDN®**  **Bluetooth®**  **GPS**  **FleetSync®**



### Features

- VHF Low Band 39 MHz to 50 MHz
- RF output power: 110 W to 25 W
- Multi RF Deck with VHF Low band / VHF High band UHF / 700 & 800 MHz combination
- Mixed Digital & FM Analog Operation allows gradual migration
- Variety of Optional Remote Control Heads (Note: NX-5600HB is remote operation only)
  - Dual Remote Control Head and Multi-band (Multi RF deck) capable options
  - Easy-to-follow controls and Information Conveying Multi-line Text are built into each control head
- Maximum of 4,000 CH/Radio capacity, 512 CH/Zone, 128 Zones
- Built-in GPS Receiver for effective fleet management
- Built-in Bluetooth 4.0 for hands-free operation
- USB Micro Terminal (up to 12 Mbps)
  - PC Programming & Internal microSD Access (Requires USB driver for PC)
- Renowned KENWOOD Audio Quality can be achieved with Active Noise Reduction that utilizes built-in DSP for suppression of ambient noise
- microSD / microSDHC (Up to 2GB / 32GB) Memory Card Slot for increased memory capacity for "Voice & Data"
- DB-25 & Molex 9-pin Accessory Connector
- 12 W Audio Output
- IP54 / 55 and MIL-STD-810 C/D/E/F/G

### Digital – NXDN® Mode

- |                                 |                                 |
|---------------------------------|---------------------------------|
| NXDN Conventional Operation     | Emergency Call                  |
| Built-in 56-bit DES encryption  | All Group Call                  |
| Optional 256-bit AES encryption | Status Messaging                |
| AMBE+2™ Enhanced Vocoder        | Remote Stun / Kill              |
| Over-the-Air Alias              | Remote Check                    |
| Over-the-Air Programming        | Short & Long Data Messages      |
| Paging Call                     | NXDN Digital Scrambler Included |

### FM Modes - General

- |   |   |
|---|---|
| FM Analog Conventional Operation  | QT / DQT & Two-Tone                                 |
| FleetSync® I / II: PTT ID ANI / Caller ID Display, Selective / Group Call, Emergency Status / Text Messages | Built-in Voice Inversion Scrambler<br>Noise Blanker |
| MDC-1200: PTT ID ANI / Caller ID Display, Emergency, Radio Check / Inhibit                                  |   |

### Multiple Configurations

The NX-5000 mobile series allows users to create a variety of configurations to suit different requirements by combining different options. Some of the standard configurations are:

- Single Remote Control Head x Single RF Deck
- Dual Remote Control Head x Single RF Deck
- Dual Remote Control Head x Multi RF Decks

Other combinations are available. Consult your local KENWOOD dealer for more.

# Accessories

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

**NX-5600HB/5700(H)B  
5800(H)B / 5900B**  
RF Deck



**KCH-19**  
Basic Control Head Kit  
- 2.55" Color TFT Display



**KCH-20R**  
Featured Control Head-  
2.75" Color TFT Display  
- D-Pad & more PF keys



**KCH-21RM**  
Handheld Control Head

**KRK-14H**  
Control Head Interface Kit  
(Adapter for the KCH-19)



**KCT-71**  
Remote Control Cable  
(available in 3 lengths of  
17ft (5.2m), 25ft (7.6m),  
1.6ft (0.5m)



**KCT-72**  
External Accessory  
Connection Cable  
for the KCH-19/20R



**KMC-65M**  
Microphone  
(IP54/55)



**KMC-66M**  
Keypad Microphone  
(IP54/55)



**KES-5A**  
External Speaker  
(40 W max input)



**KCT-23**  
DC Power Cable  
(for High Power)  
M2: [10 ft/3 m] /  
M4: [23 ft/7 m]



**KCT-18**  
Ignition Sense Cable



**KRA-40G**  
GPS Active  
Antenna



**KWD-AE30/AE31**  
Secure Cryptographic Module

# Specifications

General	NX-5600HB
Frequency Range	39 - 50 MHz
Max. Channels Per Radio	1024 (Up to 4000 CH with option)
Number of Zones	128
Max. Channels Per Radio	512
Channel Spacing	
Analog	20 kHz
Digital	12.5 kHz
Power Supply	13.4 V DC ±15 %
Current Drain	
Standby	1.3 A
RX	3.3 A
TX	2.8 A
Operating Temperature	-22°F to +140°F (-30°C to +60°C)
Frequency Stability	±0.5 ppm
Dimensions	7.01 x 2.56 x 13.84 in. (178 x 65 x 351.5 mm)
Weight (net)	12.1 lbs (5.5 kg)
Radio w/Control Head	
FCC ID	K44499100
IC Certification	282F-499100

Analog measurements made per TIA 603, and NXDN digital measurements made per NXDN Conformance Test. Specifications are subject change without notice, due to advancements in technology.

Receiver	NX-5600HB
Sensitivity	
Analog 20kHz (12dB SINAD)	0.25 µV
NXDN*12.5 kHz Digital (3% BER)	0.25 µV
Selectivity	
Analog	71 dB
Analog @ 25kHz	81 dB
Intermodulation	80 dB
Spurious Rejection	90 dB
Audio Distortion	3%
Audio Output Power	12 W/4 Ω (Remote Control Head: 3 W/4 Ω)

  

Transmitter	NX-5600HB
RF Power Output	110 to 25 W (110 / 70 / 25 W)
Spurious Emission	-80 dB
FM Hum & Noise	55 dB
Audio Distortion	2%
Emission Designator	
Analog	16K0F3E
Digital	8K30F1E, 8K30F1D, 8K30F7W

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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
Low Pressure	5001/Procedure I	5002/Procedure I, II	5003/Procedure I, II	5004/Procedure I, II	5005/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
Low Temperature	5021/Procedure I	5022/Procedure I, II	5023/Procedure I, II	5024/Procedure I, II	5025/Procedure I, II
Temperature Shock	5031/Procedure I	5032/Procedure I	5033/Procedure I	5034/Procedure I, II	5035/Procedure I
Solar Radiation	5051/Procedure I	5052/Procedure I	5053/Procedure I	5054/Procedure I	5055/Procedure I
Rain	5061/Procedure I, II	5062/Procedure I, II	5063/Procedure I, II	5064/Procedure I, III	5065/Procedure I, III
Humidity	5071/Procedure I, II	5072/Procedure II, III	5073/Procedure II, III	5074	5075/Procedure II
Salt Fog	5091/Procedure I	5092/Procedure I	5093/Procedure I	5094	5095
Dust	5101/Procedure I	5102/Procedure I	5103/Procedure I	5104/Procedure I, III	5105/Procedure I
Vibration	5142/Procedure VIII, X	5143/Procedure I	5144/Procedure I	5145/Procedure I	5146/Procedure I
Shock	5162/Procedure I, II, V	5163/Procedure I, IV, V	5164/Procedure I, IV, V	5165/Procedure I, IV, V	5166/Procedure I, IV, V

## International Protection Standard

Dust & Water Protection\*2 IP54/55\*3

\*2 Applicable microphone must be connected, and all accessory connectors must be covered.  
\*3 IP54: RF Deck of the mobile radio; IP55: Remote Control Head for the mobile radio.

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