

NX-5700HB

NEXEDGE VHF DIGITAL TRANSCEIVER

One NEXEDGE radio, multiple protocols*: the NX-5700HB is a 110-watt mobile transceiver that supports NXDN and P25 (Phase 1 & 2) digital protocols, plus FM analog for mixed operation. This high-power VHF 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-5700HB 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, unlike NEXEDGE 50W-class models, the NX-5700HB mobile series does not support DMR.

NXDN® **P25** **Gen2** **Bluetooth®** **GPS** **FleetSync®**



Features

- Multi-digital Operation in NXDN and P25 (Phase 1 & 2) protocols
- Multi RF Deck with Low Band / VHF / UHF / 700 & 800 MHz combination
- Mixed Digital & FM Analog Operation allows gradual migration in mixed sites and easy migration with digital radios in other sites
- Variety of Optional Remote Control Heads (Note: NX-5700HB 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
- Built-in 56-bit DES encryption
- Optional 256-bit AES encryption
- microSD/microSDHC (Up to 2GB/32GB) Memory Card Slot for increased memory capacity for "Voice & Data"
- RF output power: 110 W to 25 W
- DB-25 & Molex 9-pin Accessory Connector
- AMBE+2™ Enhanced Vocoder
- 12 W Audio Output
- IP54/55 and MIL-STD-810 C/D/E/F/G

Digital – NXDN® Mode

Gen2 & NXDN Type-C Trunked Operation	All Group Call
NXDN Conventional Operation	Status Messaging
6.25 & 12.5 kHz Channel Spacing	Remote Stun/Kill
Over-the-Air Alias	Remote Check
Over-the-Air Programming	Short & Long Data Messages
Paging Call	NXDN Digital Scrambler Included
Emergency Call	

Digital - P25 Mode

P25 Phase 1 Conventional/Trunked Operation	Remote Monitor/Remote Check
P25 Phase 2 Trunked Operation	Radio Inhibit
Talk Group ID Lists	Encryption Key Zeroize & Retention
Individual ID Lists	P25 Over-the-Air Re-keying
Caller ID Display	P25 Over-the-Air Programming

FM Modes - General

Conventional & LTR Zones	Display, Emergency, Radio Check / Inhibit
FleetSync® I/II: PTT ID ANI / Caller ID Display,	QT / DQT & Two-Tone
Selective / Group Call, Emergency Status /Text	Built-in Voice Inversion Scrambler
Messages MDC-1200: PTT ID ANI / Caller ID	

Multiple Configurations

The NX-5000H 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.



Multi-Protocol

Unsurpassed interoperability for Public Safety and Enterprise radio users with the freedom to migrate at your own pace.



Gen2

Scalable server-based system architecture for management of NEXEDGE wide area digital communications systems.



Klarity

The ultimate level of sound clarity technology combining Optimization, advanced Sound Analysis and Active Noise Reduction.

Accessories

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

NX-5700B/5800B/5900B
RF Deck

KCH-19
Basic Control
Head Kit

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
(Future Release)

KMC-66M
Keypad Microphone
(Future Release)

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

KMB-36
Mounting
Bracket

KWD-AE30/AE31
Secure Cryptographic Module

KPG-180AP
OTAP Manager

KRA-40G
GPS Active Antenna

Specifications

General	NX-5700HB
Frequency Range	136-174 MHz
Max. Channels Per Radio	1024 (Up to 4000 CH with option)
Number of Zones	128
Max. Channels Per Radio	512
Channel Spacing	
Analog	12.5/15/20/25/30* kHz
Digital	6.25 kHz/12.5 kHz
Power Supply	13.6V DC ± 15%
Current Drain	
Standby	1.3 A
RX	3.3 A
TX	28 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.
Radio w/Control Head	(178 x 65 x 351.5 mm.)
Weight (net)	12.1 lbs (5.5 kg)
Radio w/Control Head	
FCC ID	K44499200

*25 and 30 kHz are not included in the models sold in the USA or US territories.
P25 Digital measurements made per TIA 102CAAA, analog measurements made per TIA 603 and specifications shown are typical.
Specifications are subject change without notice, due to advancements in technology.

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Receiver	NX-5700HB
Sensitivity	
NXDN™ 6.25 kHz Digital (3% BER)	0.20 µV
NXDN™ 12.5 kHz Digital (3% BER)	0.25 µV
P25 Digital (5% BER)	0.25 µV
P25 Digital (1% BER)	0.40 µV
Analog (12dB SINAD)	0.25 µV
Selectivity	
Analog @ 12.5kHz	71 dB
Analog @ 25kHz	81 dB
Intermodulation	80 dB
Spurious Rejection	85 dB
Audio Distortion	3%
Audio Output Power	12 W/4 Ω (Remote Control Head: 3 W/4 Ω)
Transmitter	NX-5700HB
RF Power Output	110 W to 25 W
Spurious Emission	-80 dB
FM Hum & Noise	
Analog @ 12.5kHz	45 dB
Analog @ 25kHz	50 dB
Audio Distortion	2%
Emission Designator	16K0F3E*, 11K0F3E, 8K10F1E, 8K10F1D, 8K10F1W, 8K30F1E, 8K30F1D, 8K30F1W, 4K00F1E, 4K00F1D, 4K00F1W, 4K00F2D

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	IP54/IP55*				*IP54: RF Deck; IP55: Remote Control Head

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ADS#21819 Print in USA