

NX-5700(B)/5800(B)



VHF/UHF DIGITAL TRANSCEIVER MULTI-PROTOCOL DIGITAL & ANALOG Mobile RADIOS









FleetSync[®]

FEATURE HIGHLIGHTS

- Multi-Protocol operation in P25 (Phase I&II), NXDN® protocols
- Mixed Digital & FM Analog Operation allows intelligent migration in mixed sites and easy migration with digital radios in other sites
- Large, Color 2.55" (154 x 422 pixels) TFT Display for at-a-glance operational status checking
- Easy to follow GUI and Multi-line Text to convey more information
- Dual Remote Control Head Option and Multi-Band (Multi RF Deck) Control Option providing scalable configurations for various operations and applications
- Built-In GPS Receiver/Antenna for effective fleet management
- · Bluetooth® Module built-in for hands-free operation
- Active Noise Reduction (ANR) utilizing built-in DSP for suppression of ambient noise
- Renowned KENWOOD Digital Audio Quality
- Built-in 56-bit DES Encryption
- Optional 256-bit AES Encryption
- microSD/microSDHC Memory Card Slot for increased memory capacity for "Voice & Data"
- IP54/55 and MIL-STD-810 C/D/E/F/G

GENERAL FEATURES

- 5 W 50 W (136-174 MHz) Models
- 5 W 45 W (380-470, 450-520 MHz) Models
- Maximum of 4,000 CH/Radio capacity, 512 CH/Zone, 128 Zones
- DB-25 Accessory Connector
- 4 W Speaker Audio

DIGITAL – P25 MODE

- P25 Conventional Trunking (Phase 1/Phase 2) Protocol
- AMBE+2™ Enhanced Vocoder
- Talk Group ID Lists
- Individual ID Lists
- Caller ID Display
- Remote Monitor/Remote Check
- Radio Inhibit
- Encryption Key Zeroize & Retention
- P25 GPS Location
- P25 Over-the-Air Re-keying
- Over-the-Air Programming*2

DIGITAL - NXDN® MODE

- NXDN® Conventional/Trunking Protocol*1
- AMBE+2™ VOCODER
- 6.25 & 12.5 kHz Channels
- Over-the-Air Alias
- Over-the-Air Programming*2
- Paging Call
- Emergency Call
- All Group Call
- Status Messaging*3
- Remote Stun/Kill*3
- Remote Check*3
- Short & Long Data Messages*3
- GPS Location
- NXDN® Digital Scrambler Included
- *1 Only supports TYPE-C Protocol
- *2 Requires KENWOOD OTAP Management software. *3 Requires NX subscriber unit PC serial interface compatible
- software application (e.g. KENWOOD AVL & Dispatch Messaging software) or hardware (e.g. console).

FM MODES – GENERAL

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

MULTIPLE CONFIGURATIONS (Option)

The NX-5700(B)/5800(B) allows users to create a variety of configurations to suit different requirements by combining different options.

- Single RF Deck/Single Remote Control Head: The simplest configuration can be achieved by turning the front control panel of the NX-5700/5800 into a Remote Control Head.
- Single RF Deck/Dual Remote Control Heads*: One controller can be mounted on the dashboard, with the other at the rear.
- Dual RF Decks/Single Remote Control Head*: You can operate two radios (e.g. VHF and UHF bands) as if they were one by adding an NX-5700B/5800B RF Deck.
- Dual RF Decks/Dual Remote Control Heads*: This adds the convenience of a dual control head to the above configuration. Advantage: 2 operators can control 2 radios (e.g. VHF and UHF bands) from separate control heads.
- *Available later



Options

■ NX-5700B/5800B

RF Deck

■ KCH-19 Basic Control Head Kit



■ KCH-20R* Featured Control Head



■ KRK-15B Control Head Remote Kit (adapter for the RF Deck) ■ KCT-71

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

■ KWD-AE30/AE31 Secure Cryptographic Module

■ KPG-180AP OTAP Manager

■ KMC-35

Microphone

■ KMC-36

Keypad Microphone



■ KES-3 External Speaker (compact low profile; 3.5 mm plug)

requires KAP-2)

DC Power Cable

Ignition Sense Cable

KES-5 External Speaker (40 W max input,

KCT-23

■ KCT-46



■ KLF-2 Line Filter



■ KMB-10 Key Lock Adapte



■ KAP-2 Horn Alert/P.A. Relay Unit



■ KRA-40G GPS Active Antenna







Main Specifications

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

	NX-5700(B)	NX-5800(B)		
GENERAL	•			
Frequency Range				
Type 1	136-174 MHz	450-520 MHz 380-470 MHz		
Type 2				
Max. Channels Per Radio	1024 (Up to 4000 CH with option)			
Number of Zones	128			
Max. Channels per Zone	512			
Channel Spacing				
Analog	12.5/15/25*/30* kHz	12.5/25* kHz		
Digital	6.25/12.5 kHz	6.25/12.5 kHz		
Power Supply	13.6 V DC ±15%			
Current Drain				
Standby	0.45 A			
RX	2.3 A			
TX	13 A			
Operating Temperature	-22°F to +140°F (-30°C to +60°C)			
Frequency Stability	±1.0 ppm			
Dimensions (W x H x D)				
Projections not included	6.69 x 1.89 x 6.93 in. (170.0 x 48.0 x 176 mm.)			
Weight (net)	3.53 lbs (1.6 kg)			
FCC ID				
Type 1	Pending	K44471200		
Type 2		K44471201		
IC Certification				
Type 1	Pending	Ē		
Type 2		282F-471201		

Analog measurements made per TIA 603 and specifications shown are typical.

Digital measurements made per TIA 102CAAA and specifications shown are typical. Specifications are subject to change without notice, due to advancements in technology.

	NX-5700(B)	NX-5800(B)	
RECEIVER			
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			
P25 Digital	63 dB		
Analog @12.5 kHz	71 dB		
Analog @ 25 kHz	81 dB		
Intermodulation	80 dB		
Spurious Rejection	85 dB		
Audio Distortion			
Digital	2 %		
Audio Output Power	4 W/4 Ω (Remote Control Head: 3 W/4 Ω)		
TRANSMITTER			
RF Power Output	50 W to 5 W	45 W to 5 W	
Spurious Emission	-73 dB	-75 dB	
FM Hum & Noise			
Analog @ 12.5 kHz	45 dB		
Analog @ 25 kHz	50 dB		
Audio Distortion	2%		
Modulation	16K0F3E, 11K0F3E, 8K10F1E, 8K10F1D, 8K10F1W, 8K30F1E,		
	8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D,4K00F7W, 4K00F2D		

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NEXEDGE® is a registered trademark of JVCKENWOOD Corporation.

Applicable 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	500.1/Procedure I	500.2/Procedure I, II	500.3/Procedure I, II	500.4/Procedure I, II	500.5/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
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
Temperature Shock	503.1/Procedure I	503.2/Procedure I	503.3/Procedure I	503.4/Procedure I, II	503.5/Procedure I
Solar Radiation	505.1/Procedure I	505.2/Procedure I	505.3/Procedure I	505.4/Procedure I	505.5/Procedure I
Rain*1	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
Humidity	507.1/Procedure I, II	507.2/Procedure II, III	507.3/Procedure II, III	507.4	507.5/Procedure II
Salt Fog	509.1/Procedure I	509.2/Procedure I	509.3/Procedure I	509.4	509.5
Dust	510.1/Procedure I	510.2/Procedure I	510.3/Procedure I	510.4/Procedure I, III	510.5/Procedure I
Vibration	514.2/Procedure VIII, X	514.3/Procedure I	514.4/Procedure I	514.5/Procedure I	514.6/Procedure I
Shock	516.2/Procedure I, II, V	516.3/Procedure I, IV	516.4/Procedure I, IV	516.5/Procedure I, IV	516.6/Procedure I, IV
International Protection Standard					'
Dust 9 Water	IDE 4/EE*2	•			•

*1: Blowing rain protection for the Remote Control Head only. *2: IP54: RF Deck; IP55: Remote Control Head

KENWOOD

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