

NX-5700/5800/5900

NEXEDGE®

NEXEDGE® VHF/UHF/700-800MHz
MULTI-PROTOCOL DIGITAL & ANALOG MOBILE RADIOS



NXDN®

Bluetooth®



GPS 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
- **Built-in Bluetooth® Module**
- **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

- 2 W – 35 W (700-800 MHz) Models
- 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*1

● DIGITAL – NXDN® MODE

- NXDN® Conventional/Type-C Trunking Protocol
- AMBE+2™ Enhanced Vocoder
- 6.25 & 12.5 kHz Channels
- Over-the-Air Alias
- Over-the-Air Programming*1
- Paging Call
- Emergency Call
- All Group Call
- Status Messaging*2
- Remote Stun/Kill*2
- Remote Check*2
- Short & Long Data Messages*2
- GPS Location
- NXDN® Digital Scrambler Included

*1 Requires KENWOOD OTAP Management software.

*2 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 Messages
- 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-5000 mobile series 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-5000 mobile series 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.
- **Multiple RF Decks/Single Remote Control Head:** You can operate multiple radios (up to three) as if they were one by adding additional NX-5000 mobile series RF Decks.
- **Multiple RF Decks/Dual Remote Control Heads:** This adds the convenience of a dual control head to the above configuration.



Options

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

KCH-19
Basic Control Head Kit

KCH-20R
Featured Control Head

KRK-14H
Control Head Interface Kit
(adapter for the 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))

KCT-72
Remote Control Cable

KWD-AE30/AE31
Secure Cryptographic Module

KPG-180AP
OTAP Manager

KMC-35
Microphone

KMC-36
Keypad Microphone

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

KES-5
External Speaker
(40 W max input,
requires KAP-2)

KCT-23
DC Power Cable

KCT-46
Ignition Sense Cable

KLF-2
Line Filter

KMB-10
Key Lock Adapter

KAP-2
Horn Alert/P.A.
Relay Unit

KRA-40G
GPS Active Antenna

KMB-34
Mounting Case
for KPS-15

KPS-15
DC Power Supply
(23A max)

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.

GENERAL	NX-5700	NX-5800	NX-5900
Frequency Range	136-174 MHz	Type 1 450-520 MHz Type 2 380-470 MHz	RX: 763-776, 851-870 MHz TX: 763-776, 793-806 806-825, 851-870 MHz
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	12.5/25 kHz
Digital	6.25/12.5 kHz	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)			
Radio w/Control Head (KCH-19)	6.73 x 1.89 x 6.93 in. (171.0 x 48.0 x 176 mm.)		6.73 x 1.89 x 7.72 in. (171.0 x 48.0 x 196 mm.)
Weight (net)	3.53 lbs (1.6 kg)		3.75 lbs (1.7 kg)
FCC ID			
Type 1	K44471100	K44471200	K44478500
Type 2	-	K44471201	-
IC Certification			
Type 1	282F-471100	-	282F-478500
Type 2	-	282F-471201	-

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

RECEIVER	NX-5700	NX-5800	NX-5900
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		70 dB
Analog @ 25 kHz	81 dB		78 dB
Intermodulation		80 dB	
Spurious Rejection		85 dB	
Audio Distortion		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	30 W to 2 W (700 MHz) 35 W to 2 W (800 MHz)
Spurious Emission	-73 dB	-75 dB	-80 dB
FM Hum & Noise			
Analog @ 12.5 kHz	45 dB		40 dB
Analog @ 25 kHz	50 dB		45 dB
Audio Distortion		2%	
Emission Designator	16K0F3E, 14K0F3E** 11K0F3E, 8K10F1E, 8K10F1D, 8K10F1W, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D		

**NX-5900 model only.

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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	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, V	516.4/Procedure I, IV, V	516.5/Procedure I, IV, V	516.6/Procedure I, IV, V
International Protection Standard					
Dust & Water	IP54/55*1				

1: IP54: RF Deck; IP55: Remote Control Head

KENWOOD

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