NEXEDGE

One Radio with Multi-Protocol Support

Bluetooth' FleetSync

605

NX-5700/5800/5900

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

The NX-5000 Series offers unsurpassed interoperability for a wide variety of users as it supports three digital CAIs - NXDN™, DMR (Tiier 2 & 3) and P25 (Phase 1 & 2) - plus FM analog in a single radio. Best of all, a desired CAI can be selected at will, giving you the freedom to migrate at your own pace - whether you are intent on going fully digital, undecided about which digital system to pick, or just wanting to maintain both digital and analog for a while. A NX-5000 radio can simultaneously support two digital protocols plus analog, offering the following combinations: FM/DMR/NXDN, FM/NXDN/P25, and FM/DMR/P25.

KENWOOD Ƴ**ul⊣⊥≬≯**≉®e≣ Interop Zone 1 12:34 Dispatch CH 1

Features

Multi-Digital operation in NXDN, DMR (Tier 2 & 3), and P25 (Phase 1 & 2) protocols Any combination of two digital protocols may be selected from NXDN, DMR, and P25 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 Easy to follow GUI and Multi-line Text to convey information

Dual Remote Control Head and Multi-Band (Multi RF Deck) Control Option providing scalable configurations for various operations and applications

Built-In GPS Receiver for effective fleet and incident management

Bluetooth® Module Built-in for hands-free and IoT applications operation Renowned KENWOOD Audio Quality achieved with Active Noise Reduction (ANR) that utilizes built-in DSP with two microphones 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"

50 W to 5 W (136-174 MHz) Models

45 W to 5 W (380-470, 450-520 MHz) Models

30 W to 2 W (700 MHz) Model 35 W to 2 W (800 MHz) Model

Maximum of 1024 CH/Zone, 128 Zones (4000 CH. Opt)

DB-25 Accessory Connector

AMBE+2[™] Enhanced Vocoder

4 W Speaker Audio

Digital – DMR Mode

Two-slot TDMA in 12.5 kHz channels DMR Tier 2 Conventional DMR Tier 3 Trunking DMR Over-the-Air Programming

Call Interruption Dual-slot Direct Mode Spectrum Efficient Optional ARC4 encryption

Digital – P25 Mode

P25 Phase 1 Conventional/Trunked Operation	Remote Monitor / Check / Inhibit
P25 Phase 2 Trunked Operation	Encryption Key Zeroize & Retention
Talk Group ID Lists	P25 Over-the-Air Re-keying
Individual ID Lists	P25 Over-the-Air Programming
Caller ID Display	Optional ARC4 encryption
2-Tone (Digital)	

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 OT / DOT & Two-Tone Built-in Voice Inversion Scrambler

Digital – NXDN[™] Mode

NXDN Conventional NXDN Type-C & Gen2 Trunking 6.25 & 12.5 kHz Channels Paging Call Emergency Call All Group Call Status Messaging

Remote Stun/Kill Remote Check Over-the-Air Alias (OAA) Over-the-Air Programming (OTAP) Short & Long Data Messages NXDN Digital Scrambler 2-Tone (Digital)

Multiple Configurations (Option)

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



Specifications

			NX-5900		
Frequency Range	136-174 MHz	Type 1 450-520 MHz Type 2 400-470 MHz	RX: 763-776, 851-870 MHz TX: 763-776, 793-806 806-825, 851-870 MHz		
Vlax. Channels Per Radio	1,024 (Up to 4,000 CH with option)				
Vlax. # of P25 Trunked Group ID's	s 512				
Number of Zones	128				
Channel Spacing Analog Digital	12.5/15/25*/30* kHz 6.25/12.5 kHz	12.5/25* kHz 6.25/12.5 kHz	12.5/25 kHz 6.25/12.5 kHz		
Power Supply	13.6 V DC ±15%				
Current Drain Standby RX TX	045 A 2.3 A 13 A				
Operating Temperature	-22°F to +140°F (-30°C to +60°C)				
Frequency Stability	± 0.5 ppm				
Dimensions Radio with Control Head	(W x H x D) Projections Not Included 6.69 x 1.89 x 6.93 in. (170 x 48.0 x 176 mm.)		d 6.73 x 1.89 x 7.72 in. (171 x 48 x 196 mm.)		
Weight Radio Radio with Control Head	3.53 lbs (1.6 kg)		3.53 lbs (1.6 kg)		
FCC ID Type 1 Type 2	K44471100	K44471200 K44471201	K44478500		
IC Certification Type 1 Type 2	282F-471100	282F-471201	282F-478500		

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P25 Digital measurements made per TIA 102CAAA and specifications shown are typical. Specifications shown are typical and subject to change without notice, due to advancements in technology.

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/Prcedure 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

* Applicable microphone must be connected to the radio, and all accessory connectors must be covered. * IP54: RF Deck; IP55: Remote Control Hea

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Sensitivity NXDN 625 kHz Digital (3% BER) NXDN 125 kHz Digital (3% BER) DMR Digital (5% BER) DMR Digital (5% BER) P25 Digital (5% BER) P25 Digital (5% BER) Analog (12dB SINAD)		0.20 µV 0.25 µV 0.25 µV 0.40 µV 0.25 µV 0.40 µV 0.25 µV		
Selectivity Analog @ 12.5kHz Analog @ 25kHz		1 dB 1 dB	70 dB 78 dB	
Intermodulation	80 dB 85 dB			
Spurious Rejection				
Audio Distortion		2%		
Audio Output Power	4 W/4 Q (Remote Control Head: 3 W/4 Q)			
Transmitter	NX-5700	NX-5800	NX-5900	
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)	

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 @ 12.5kHz Analog @ 25kHz		45 dB 50 dB		
Audio Distortion	2%			
Emission Designator				

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