

# NX-5200/5300/5400 NXDN® P25 DMR Gen2 Bluetooth FleetSync®

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



The NX-5000 Series offers unsurpassed interoperability for a wide variety of users as it supports three digital CAIs — NXDN, DMR (Tier 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.

### Features

- Multi-Digital operation in NXDN, DMR (Tier 2 & 3), and P25 (Phase 1 & 2)
- 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 1.74" (240 x 180 pixels) Transflective TFT Display for better interface even in direct sunlight and with use of polarized sunglasses
- Easy to follow GUI for at-a-glance operational status and Multi-line Text to convey information
- 4-way Directional-pad (D-pad) and 2-Position Lever Switch for intuitive control
- Built-In GPS Receiver/Antenna 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
- Built-in Motion Sensor for man down detection
- microSD/microSDHC Up to 2GB/32GB Memory Card Slot for increased memory capacity for "Voice & Data"
- IP67/68 and MIL-STD-810 C/D/E/F/G
- 6 W (138-174 MHz) Models
- 5 W (406.1 to 470 MHz) Models
- 3 W (700/800 MHz) Models
- Full Key Models (w/numeric keypad) and Standard Key Models (w/o numeric keypad)
- 1,024 Channels, Maximum 512CH/Zone, 128 Zones. Option: 4,000 CH with License
- 1 W Speaker Audio
- CSA Intrinsically Safe Class I, II, III, Division 1, Groups A, B, C, D, E, F, G
- Division 2 Groups A,B,C,D

### Digital – NXDN® Mode

- |                             |                                 |
|-----------------------------|---------------------------------|
| NXDN Conventional           | Remote Stun/Kill                |
| NXDN Type-C & Gen2 Trunking | Remote Check                    |
| 6.25 & 12.5 kHz Channels    | Over-the-Air Alias (OAA)        |
| Paging Call                 | Over-the-Air Programming (OTAP) |
| Emergency Call              | Short & Long Data Messages      |
| All Group Call              | NXDN Digital Scrambler          |
| Status Messaging            |                                 |



Full-Keypad & Standard Models

### Digital – DMR Mode

- |                                    |                          |
|------------------------------------|--------------------------|
| Two-slot TDMA in 12.5 kHz channels | Call Interruption        |
| DMR Tier 2 Conventional            | Dual-slot Direct Mode    |
| DMR Tier 3 Trunking                | Energy Efficient         |
| DMR Over-the-Air Programming       | Optional ARC4 encryption |

### Digital – P25 Mode

- |  |   |
|--|---|
| P25 Phase 1 Conventional/Trunked Operation | Radio Inhibit                               |
| P25 Phase 2 Trunked Operation              | Enhanced 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                          | P25 Two-Tone Paging Decode                  |
| Remote Monitor/Remote Check                |   |

### FM Modes – General

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

### Intelligent Battery System (option)

- |   |  |
|---|--|
| System consists of the optional high-capacity Battery Series (KNB-L1/L2/L3/N4/LS5/LS6/LS7), Rapid Charger (KSC-Y32), and Battery Reader (KAS-12) software | KAS-12 Battery Reader software can display and manage information including battery type, model name, voltage, temperature, discharge cycle, expected life, and remaining capacity |
| Up to 60 Rapid Chargers can be chain-connected to a PC installed with the KAS-12  | Up to 5,000 batteries can be managed at a time (requires an additional option)   |

# Accessories

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

**KNB-L1/L2/L3**  
Li-ion Battery Pack  
(IP67/68 Immersion)



**KSC-32K**  
Rapid Charger



**KRA-23**  
UHF Helical Antenna  
(Low Profile)



**KRA-29P**  
UHF Broadband Antenna  
(406-470MHz)

**KMC-70GR**  
Green Speaker  
Microphone  
(with dual-sided  
2-mic for superior  
ANR, IP67)

**KNB-LS6**  
Li-Ion Battery (2,000mAh)  
CSA Intrinsically Safe  
(IP67/68 Immersion)



**KSC-326AK**  
Rapid Charger  
(6-unit Rapid Rate)



**KRA-26**  
VHF Helical Antenna  
(Standard Length)



**KRA-32**  
700/800MHz  
Whip Antenna



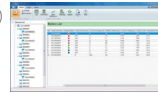
**KBH-11**  
Belt Clip (2.5")



**KNB-LS7**  
Li-ion Battery (3,800mAh)  
CSA Intrinsically Safe  
(IP67/68 Immersion)



**KAS-12/PRO**  
Battery Reader  
(PC Software)



**KRA-27**  
UHF Whip Antenna  
(Standard Length)



**KMC-72W**  
Speaker Microphone  
(IP67)



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

**KSC-Y32K**  
Rapid Charger



**KRA-22**  
VHF Helical Antenna  
(Low Profile)



**KRA-25**  
High Gain VHF  
Whip Antenna



**KMC-70**  
Speaker Microphone  
(with dual-sided  
2-mic for superior  
ANR, IP67)



**KPG-180AP**  
OTAP Manager

# Specifications

General	NX-5200	NX-5300	NX-5400
Frequency Range	138-174 MHz	4061-470 MHz	RX: 763-776, 851-870 MHz TX: 763-776, 793-806, 806-825, 851-870 MHz
Max. Channels Per Radio	1,024 (Up to 4,000 CH with option)		
Number of Zones	128		
Max. Channels per Zone	512		
Channel Spacing			
Analog	12.5/15/20/25/30 kHz	12.5/25 kHz	12.5/25 kHz
Digital	6.25 kHz/12.5 kHz	6.25 kHz/12.5 kHz	12.5 kHz (6.25 kHz)
Power Supply	7.5V DC ± 20%		
Battery Life	(5-5-90/10-10-80 duty cycle)		
KNB-L1/LS6 (2,000 mAh)	10 hours / 6.5 hours		
KNB-L2 (2,600 mAh)	12.5 hours / 8.5 hours		
KNB-L3 (3,400 mAh)	17 hours / 11 hours		
Operating Temperature	-22°F to +140°F (-30°C to +60°C)		
Frequency Stability	± 0.5 ppm		
Dimensions/Weight Radio w/battery	(W x H x D) Projections Not Included		
KNB-L1 (2,000 mAh)	2.28 x 5.47 x 1.44 in. (58.0 x 138.9 x 36.5 mm)		13.5 oz (382 g)
KNB-L2 (2,600 mAh)	2.28 x 5.47 x 1.56 in. (58.0 x 138.9 x 39.5 mm)		14.3 oz (406 g)
KNB-L3 (3,400 mAh)	2.28 x 5.47 x 1.77 in. (58.0 x 138.9 x 44.9 mm)		15.8 oz (449 g)
IC Certification			
Type 1	282F-431400		282D-442000
Type 2		282F-431501	

Analog measurements made per TIA603. Specifications are measured according to applicable standards.  
P25 Digital measurements made per TIA 102CAAA and specifications shown are typical.  
Specifications are subject to change without notice, due to advancements in technology.

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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	5164/Procedure I, IV	5165/Procedure I, IV	5166/Procedure I, IV
Immersion				5124/Procedure I	5125/Procedure I

## International Protection Standard

Dust & Immersion	IP67/68*
CSA Intrinsically Safe:	Class I, II, III, Division 1, Groups A, B, C, D, E, F, G Division 2 Groups A, B, C, D

\*Conditions: Portable radio immersed for 2 hours at a depth of 1 meter (IP68=1m/2H)

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