

NEXEDGE® NX-5200/5300/5400

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



NXDN®



Bluetooth®



GPS

FleetSync®



● FEATURE HIGHLIGHTS

- **Multi-Protocol** operation in P25 (Phase 1 & 2), NXDN® and Analog protocols
- **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 checking and Multi-line Text to convey more information
- **4-way Directional-pad (D-pad)** and **2-Position Lever Switch** for intuitive control and operation
- **Built-In GPS Receiver/Antenna** for effective fleet management
- **Built-in Bluetooth® Module**
- **Active Noise Reduction (ANR)** utilizing built-in DSP with two microphones for suppression of ambient noise
- Renowned **KENWOOD Digital Audio Quality**
- **Built-in 56-bit DES Encryption**
- **Built-in 256-bit AES Encryption**
- **Built-in Motion Sensor** for life-critical man down detection
- **microSD/microSDHC Memory Card Slot** for increased memory capacity for "Voice & Data"
- **IP67/68 and MIL-STD-810 C/D/E/F/G**

● GENERAL FEATURES

- 6 W (136-174 MHz) Models
- 5 W (380-470, 450-520 MHz) Models
- 3 W (700/800 MHz) Models
- Full Key Models (w/ numeric keypad) and Standard Key Models (w/o numeric keypad)
- Maximum of 4,000 CH/Radio capacity, 512 CH/Zone, 128 Zones
- 1 W Loud Speaker Audio

● DIGITAL – P25 MODE

- P25 Conventional Trunking (Phase 1 & 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
- Over-the-Air Programming^{*1}

● DIGITAL – NXDN® MODE

- NXDN® Conventional/Type-C Trunking Protocol
- AMBE+2™ 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

● FM MODES – GENERAL

- Conventional & LTR Zones
- NPSPEC (USA only) Channels (±4.0 Modulation)
- FleetSync®/III: 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

● INTELLIGENT BATTERY SYSTEM (Option)

- System consists of the optional high-capacity Battery Series (KNB-L1/L2/L3/N4), Rapid Charger (KSC-Y32), and Battery Reader (KAS-12) software
- Up to 60 Rapid Chargers can be chain-connected to a PC installed with the KAS-12
- 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 5,000 batteries can be managed at a time (requires an additional option)

^{*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).

Options

<ul style="list-style-type: none"> KNB-L1/L2/L3 Li-ion Battery Pack (IP67/68 Immersion) KNB-N4 Ni-MH Battery Pack (IP67/68 Immersion) KBP-8 Alkaline Battery Case KSC-Y32 Rapid Charger 	<ul style="list-style-type: none"> KSC-32/32S Rapid Charger KSC-326/326S Rapid Charger KAS-12 Battery Reader (PC Software) 	<ul style="list-style-type: none"> KRA-26 VHF Helical Antenna (Standard Length) KRA-27 UHF Whip Antenna (Standard Length) KRA-32 700/800MHz Whip Antenna KMC-42WD Speaker Microphone (IP67) 	<ul style="list-style-type: none"> KMC-54W Speaker Microphone <ul style="list-style-type: none"> • 2-mic digital noise cancelling via the radio's DSP • 3.5mm-diameter EP jack • Complies with MIL-STD 810C/D/E/F/G • IP65/67 Dust & Water* KWD-AE30/AE31 Secure Cryptographic Module KPG-180AP OTAP Manager KBH-11 Belt Clip
---	--	---	--

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.

Main Specifications

	NX-5200	NX-5300	NX-5400
GENERAL			
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: 12.5/15/20/25*1/30* kHz Digital: 6.25kHz/12.5kHz	12.5/25* kHz 6.25kHz/12.5kHz	12.5/25 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 (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		
KNB-N4 (2,500 mAh)	12.5 hours / 8.5 hours		
KBP-8 (w/AA x12)	High Power Approx. 11 hours / 8 hours / Low Power Approx. 25 hours / 18 hours		
Operating Temperature	-22°F to +140°F (-30°C to +60°C)		
Frequency Stability	±2.0 ppm	±1.0 ppm	±1.5 ppm
Dimensions/Weight Radio w/battery	(W x H x D) Projection/Not Included		
KNB-L1 (2,000 mAh)	2.28 x 5.47 x 1.57 in. (58.0 x 138.9 x 39.8 mm)		13.5 oz (382 g)
KNB-L2 (2,600 mAh)	2.28 x 5.47 x 1.69 in. (58.0 x 138.9 x 42.8 mm)		14.3 oz (406 g)
KNB-L3 (3,400 mAh)	2.28 x 5.47 x 1.90 in. (58.0 x 138.9 x 48.2 mm)		15.8 oz (449 g)
KNB-N4 (2,500 mAh)	2.28 x 6.55 x 1.91 in. (58.0 x 166.4 x 48.5 mm)		20.4 oz (579 g)
KBP-8	2.64 x 8.59 x 1.76 in. (67.0 x 218.3 x 44.6 mm)		Approx. 25.1 oz (712 g)
FCC ID	Type 1: K44431400 Type 2: K44431501	K44431500 K44431501	AIH442000
IC Certification	Type 1: 282F-431400 Type 2: 282F-431501		282D-442000

	NX-5200	NX-5300	NX-5400
RECEIVER			
Sensitivity	NxD N* 6.25 kHz Digital (3% BER) NxDN* 12.5 kHz Digital (3% BER) P25 Digital (5% BER) P25 Digital (1% BER) Analog (12dB SINAD)		0.20 µV 0.25 µV 0.25 µV 0.40 µV 0.25 µV
Selectivity	P25 Digital Analog @ 12.5 kHz Analog @ 25 kHz	67 dB	60 dB 64 dB
Intermodulation	80 dB	73 dB	75 dB
Spurious Rejection	75 dB		
Audio Distortion	3%		
Audio Output Power	500 mW/8 (3% Distortion) / 1,000 mW / 8 (5% Distortion)		
TRANSMITTER			
RF Power Output Power	6 W to 1 W	5 W to 1 W	3 W to 1 W
Spurious Emission	-70 dB		
FM Hum & Noise	Analog @ 12.5 kHz Analog @ 25kHz	40 dB 45 dB	
Audio Distortion	2%		
Emission Designator	16K0F3E, 11K0F3E, 8K10F1E, 8K10F1D, 8K10F1W, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D		16K0F3E, 14K0F3E, 11K0F3E, 8K10F1E, 8K10F1D, 8K10F1W, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D

The Bluetooth word mark and logos are registered trademarks owned by the Bluetooth SIG, Inc. SD and microSD are trademarks of SD-3C, LLC in the United States, and/or other countries. AMBE+2™ is a trademark of Digital Voice Systems Inc. Windows* is a registered trademark of Microsoft Corporation. NxDN* is a trademark of JVCENWOOD Corporation and Icom Inc. NEXEDGE* is a registered trademark of JVCENWOOD Corporation. FleetSync* is a registered trademark of JVCENWOOD Corporation.

*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 102CAA and specifications shown are typical. Specifications are subject to change without notice, due to advancements in technology.

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/Pr oc edur e II	500.2/Pr oc edur e II	500.3/Pr oc edur e II	500.4/Pr oc edur e II	500.5/Pr oc edur e II
High Temperature	501.1/Pr oc edur e II	501.2/Pr oc edur e II	501.3/Pr oc edur e II	501.4/Pr oc edur e II	501.5/Pr oc edur e II
Low Temperature	502.1/Pr oc edur e II	502.2/Pr oc edur e II	502.3/Pr oc edur e II	502.4/Pr oc edur e II	502.5/Pr oc edur e II
Temperature Shock	503.1/Pr oc edur e II	503.2/Pr oc edur e II	503.3/Pr oc edur e II	503.4/Pr oc edur e II	503.5/Pr oc edur e II
Solar Radiation	505.1/Pr oc edur e II	505.2/Pr oc edur e II	505.3/Pr oc edur e II	505.4/Pr oc edur e II	505.5/Pr oc edur e II
Rain	506.1/Pr oc edur e II	506.2/Pr oc edur e II	506.3/Pr oc edur e II	506.4/Pr oc edur e III	506.5/Pr oc edur e III
Humidity	507.1/Pr oc edur e II	507.2/Pr oc edur e III	507.3/Pr oc edur e III	507.4	507.5/Pr oc edur e II
Salt Fog	509.1/Pr oc edur e II	509.2/Pr oc edur e II	509.3/Pr oc edur e II	509.4	509.5
Dust	510.1/Pr oc edur e II	510.2/Pr oc edur e II	510.3/Pr oc edur e II	510.4/Pr oc edur e III	510.5/Pr oc edur e II
Vibration	514.2/Pr oc edur e VIII, X	514.3/Pr oc edur e II	514.4/Pr oc edur e II	514.5/Pr oc edur e II	514.6/Pr oc edur e II
Shock	516.2/Pr oc edur e II, V	516.3/Pr oc edur e IV	516.4/Pr oc edur e IV	516.5/Pr oc edur e IV	516.6/Pr oc edur e IV
Immersion	-	-	-	512.4/Pr oc edur e II	512.5/Pr oc edur e II
International Protection Standard					
Dust & Water Protection	P54/55				
Immersion	IP67/68*				

*IP68=1m/2H

KENWOOD

JVCENWOOD USA Corporation
 Communications Sector Headquarters
 3970 Johns Creek Court, Suite 100, Suwanee, GA 30024-1265
 Order Administration/Distribution
 P.O. BOX 22745, 2201 East Dominguez St., Long Beach, CA 90801-5745
www.kenwood.com/usa



645 Mike McCarthy Way Green Bay, WI 54304 | 920-494-1828
 500 S Green Bay Road Neenah, WI 54956 | 920-886-1112
www.nielsoncom.com sales@nielsoncom.com



ISO9001 Registered
 JVCENWOOD Corporation

ADS#53515 Printed in USA