

KENWOOD

NEXEDGE® NX-5200/5300/5400ABP

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

*CSA Certified for Class I, Division 1, Groups A & B



NXDN®



Bluetooth®



FleetSync®

*CSA Certified for Class I, Division 1, Groups A, B, C, and D; Class II, Division 1, Groups E, F and G; Class III, Division 1: Class I, Division 2, Groups A, B, C, and D.



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 superior visibility in direct sunlight and with the use of polarized safety glasses.
- **Easy to follow GUI** featuring multi-line text to convey more information for at-a-glance operational status checking/updates.
- **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**
- **Optional 256-bit AES Encryption**
- **Built-in Motion Sensor** for life-critical man down detection
- **Battery Status/Health** on Display
- **Voice Announcement**
- **microSD/microSDHC Memory Card Slot** for increased memory capacity for "Voice & Data"
- **IP67/68** and **MIL-STD-810 C/D/E/F/G**
- **AFRRCS** Approved

GENERAL FEATURES

- 6 W (136-174 MHz) Models
- 5 W (406-470 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
- 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

INTELLIGENT BATTERY SYSTEM (Option)

- System consists of the optional high-capacity Battery (KNB-LS6), 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

■ KNB-LS6* Li-ion Battery (2,000mAh) CSA A&B Intrinsically Safe	■ KSC-326 Rapid Charger	■ KRA-28* VHF Broadband Antenna	■ KMC-54W* Speaker Microphone • 2-mic digital noise cancelling via the radio's DSP • 3.5mm-diameter SP jack • Complies with MIL-STD 810C/D/E/F/G • IP65/67 Dust & Water*
■ KWD-YH-5000* Yellow Housing	■ KAS-12 Battery Reader (PC Software)	■ KRA-29P* UHF Broadband Antenna	■ KWD-AE30/AE31* Secure Cryptographic Module
■ KWD-OH-5000* Orange Housing	■ KRA-26* VHF Helical Antenna (Standard Length)	■ KHS-15-BH Behind-the-Head Heavyduty Headset	■ KPG-180APKIT OTAP Manager
■ KSC-Y32 Rapid Charger	■ KRA-27* UHF Whip Antenna (Standard Length)	■ KMC-41D* MIL-STD & IP 54/55 Speaker Microphone	■ KBH-11* Belt Clip
■ KSC-32 Rapid Charger	■ KRA-32* 700/800MHz Whip Antenna	■ KMC-42WD* Speaker Microphone (IP67)	

*Refer to Intrinsically Safe / Non-Incendive Manual B5K-0222-xx for listing of CSA IS approved accessories.

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	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 12.5/15/20/25/30 kHz Digital 6.25kHz/12.5kHz		
Power Supply	7.5V DC $\pm$ 20%		
Battery Life	(5-5-90/10-10-80 duty cycle)		
KNB-LS6 (2,000 mAh)	10 hours / 6.5 hours		
Operating Temperature	-22°F to +140°F (-30°C to +60°C)		
Frequency Stability	$\pm$ 2.0 ppm	$\pm$ 1.0 ppm	$\pm$ 1.5 ppm
Dimensions/Weight Radio w/battery	(W x H x D) Projections Not Included		
KNB-LS6 (2,000 mAh)	2.28 x 5.47 x 1.69 in. (58.0 x 138.9 x 42.8 mm)		14.3 oz (406 g)
IC Certification			
Type 1	282F-431400	-	282D-442000
Type 2		282F-431501	

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SD and microSD are trademarks of SD-3C, LLC in the United States, and/or other countries.
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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.

	NX-5200	NX-5300	NX-5400
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		60 dB	
Analog @ 12.5 kHz	67 dB	67 dB	64 dB
Analog @ 25 kHz		73 dB	
Intermodulation	73 dB	73 dB	75 dB
Spurious Rejection	80 dB	75 dB	75 dB
Audio Distortion	3%		
Audio Output Power	500 mW/8Ω (3% Distortion) / 1,000 mW /8Ω (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		40 dB	
Analog @ 25kHz		45 dB	
Audio Distortion	2%		
Emission Designator	16K0F3E, 14K0F3E, 11K0F3E, 8K10F1E, 8K10F1D, 8K10F1W, 8K30F1E, 8K30F1D, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D		

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	516.4/Procedure I, IV	516.5/Procedure I, IV	516.6/Procedure I, IV
Immersion	-	-	-	512.4/Procedure I	512.5/Procedure I
International Protection Standard					
Dust & Water Protection	IP54/55				
Immersion	IP67/68*				

IP67 = 1m/30Min. / IP68=1m/2H.

KENWOOD

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