



### ● MAIN FEATURES

- **MULTI-Digital** operation in P25 (Phases 1 & 2) and NXDN protocols
- **Mixed Digital & FM Analogue 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 access 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
- **Bluetooth® Module built-in** for hands-free operation
- Renowned KENWOOD Audio Quality can be achieved with **Active Noise Cancelling** 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 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

- 5 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 Phase 1 Conventional/Trunked Operation
- P25 Phase 2 Trunked
- AMBE+2™ Enhanced Vocoder
- Talk Group ID Lists
- Individual ID Lists
- Caller ID Display
- Remote Monitor/Remote Check
- P25 Voting in Conventional Operation

- Radio Inhibit
- Encryption Key Zeroize & Retention
- P25 GPS Location
- Over-the-Air Programming\*1

### ● DIGITAL – NXDN MODE

- NXDN Conventional
- Gen2 & NXDN Type-C Trunked Operation
- 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
- Remote Stun/Kill\*2
- Remote Check\*2
- Short Data Messages
- Long Data Messages\*2
- GPS Location
- NXDN Digital Scrambler Included

### ● ANALOGUE - FM MODE

- 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 Series (KNB-L1/L2/L3/N4), Rapid Charger (KSC-Y32), and Battery Reader (KAS-12) software
- Up to 30/60 Rapid Chargers can be chain-connected to a PC installed with the KAS-12\*3
- 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 battery profiles can be managed at a time (requires an additional option)\*4



NX-5200K3/K6  
NX-5400K3 TYPES

NX-5200K2/K5  
NX-5400K2 TYPES

\*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).

## OPTIONAL ACCESSORIES

<ul style="list-style-type: none"> <li><b>KNB-L1</b> Li-ion BATTERY PACK, IP67/68 (7.4 V/2000 mAh)</li> <li><b>KNB-L2</b> Li-ion BATTERY PACK, IP67/68 (7.4 V/2600 mAh)</li> <li><b>KNB-L3</b> Li-ion BATTERY PACK, IP67/68 (7.4 V/3400 mAh)</li> <li><b>KNB-N4</b> Ni-MH BATTERY PACK, IP67/68 (7.2 V/2500 mAh)</li> <li><b>KSC-Y32</b> RAPID CHARGER</li> </ul>	<ul style="list-style-type: none"> <li><b>KSC-32/32S</b> RAPID CHARGER</li> <li><b>KSC-326/326S</b> MULTIPLE CHARGER (6-unit Rapid Rate)</li> <li><b>KBP-8</b> BATTERY CASE (12AA Alkaline Battery)</li> <li><b>KRA-22</b> VHF HELICAL ANTENNA (Low Profile)</li> <li><b>KRA-23</b> UHF HELICAL ANTENNA (Low Profile)</li> </ul>	<ul style="list-style-type: none"> <li><b>KRA-26</b> VHF HELICAL ANTENNA (Standard Length)</li> <li><b>KRA-27</b> UHF WHIP ANTENNA (Standard Length)</li> <li><b>KRA-41</b> VHF STUBBY ANTENNA</li> <li><b>KRA-42</b> UHF STUBBY ANTENNA</li> <li><b>KRA-32</b> 700/800MHz WHIP ANTENNA</li> <li><b>KRA-35</b> UHF HELICAL ANTENNA (335-400 MHz)</li> </ul>	<ul style="list-style-type: none"> <li><b>KRA-25</b> HIGH GAIN VHF ANTENNA (148-162 MHz)</li> <li><b>KRA-28</b> BROAD-BAND VHF ANTENNA (140-170 MHz)</li> <li><b>KRA-29</b> BROAD-BAND VHF ANTENNA (380-430 MHz)</li> <li><b>KMC-54WD</b> SPEAKER MICROPHONE                     <ul style="list-style-type: none"> <li>• 2-mic digital noise cancelling via the radio's DSP</li> <li>• 3.5mm-diameter earphone jack</li> <li>• Complies with MIL-STD 810C/D/E/F/G</li> <li>• IP65/67 Dust &amp; Water*</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li><b>KMC-42WD</b> SPEAKER MICROPHONE (IP67)</li> <li><b>KWD-AE31</b> SECURE CRYPTOGRAPHIC MODULE</li> <li><b>KBH-11</b> BELT CLIP</li> <li><b>KPG-180AP</b> OTAP MANAGER</li> <li><b>KAS-12</b> BATTERY READER (PC Software)</li> </ul>
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\*The earphone jack cap must be closed tightly

## SPECIFICATIONS

GENERAL	Portable Radios		
	NX-5200	NX-5300	NX-5400
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 channels with option)		
Number of Zones	128		
Max. Channels Per Zone	512		
Channel Spacing	Analogue Digital	12.5/15/20/25*730* kHz 6.25/12.5 kHz	12.5/25* kHz 6.25/12.5 kHz 12.5 kHz (6.25 kHz)
Power Supply	7.5 V DC ±20%		
Battery Life (5-5-90/10-10-80 duty cycle)	KNB-L1 (2,000 mAh) KNB-L2 (2,600 mAh) KNB-L3 (3,400 mAh)	10 hours / 6.5 hours 12.5 hours / 8.5 hours 17 hours / 11 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 (W x H x D) Projections Not Included	KNB-L1 (2,000 mAh) KNB-L2 (2,600 mAh) KNB-L3 (3,400 mAh)	2.28 x 5.47 x 1.52 in. (58 x 139 x 38.8 mm) 2.28 x 5.47 x 1.65 in. (58 x 139 x 41.8 mm) 2.28 x 5.47 x 1.86 in. (58 x 139 x 47.2 mm)	
Weight	KNB-L1 (2,000 mAh) KNB-L2 (2,600 mAh) KNB-L3 (3,400 mAh)	15.52 oz (440 g) 16.57 oz (470 g) 17.98 oz (510 g)	

\*25 and 30 kHz are not included in the models sold in the USA or US territories. Analogue measurements made per TIA 603 and specifications shown are typical. Digital measurements made per TIA 102CAA and specifications shown are typical. Details and timing of firmware and software updates are subject to change without notice. Specifications are subject change without notice, due to advancements in technology.

RECEIVER	Portable Radios		
	NX-5200	NX-5300	NX-5400
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	—
Selectivity	Analogue (12dB SINAD)	0.25 µV	—
	P25 Digital Analogue @ 12.5 kHz Analogue @ 25 kHz	60 dB 67 dB 73 dB	64 dB
Intermodulation	80 dB	73 dB	75 dB
Spurious Rejection	3%		
Audio Distortion	500 mW/8 Ω (3% Distortion) / 1,000 mW / 8 Ω (5% Distortion)		
Audio Output Power	5 to 1 W		
Spurious Emission	-70 dB		
FM Hum & Noise	Analogue @ 12.5 kHz	40 dB	
	Analogue @ 25 kHz	45 dB	
Audio Distortion	2%		
Emission Designator	16K0F3E, 11K0F3E, 8K10F1E, 8K10F1D, 8K10F1W, 8K30F1E, 8K30F1D, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D	16K0F3E, 14K0F3E, 11K0F3E, 8K10F1E, 8K10F1D, 8K10F1W, (8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D)	

## APPLICABLE MIL-STD & IP

MIL Standard	810C Methods/ Procedures	810D Methods/ Procedures	810E Methods/ Procedures	810F Methods/ Procedures	810G Methods/ Procedures
Low Pressure	500.1/I	500.2/I, II	500.3/I, II	500.4/I, II	500.5/I, II
High Temperature	501.1/I, II	501.2/I, II	501.3/I, II	501.4/I, II	501.5/I, II
Low Temperature	502.1/I	502.2/I, II	502.3/I, II	502.4/I, II	502.5/I, II
Temp. Shock	503.1/I	503.2/I	503.3/I	503.4/I, II	503.5/I
Solar Radiation	505.1/I	505.2/I	505.3/I	505.4/I	505.5/I
Rain	506.1/I, II	506.2/I, II	506.3/I, II	506.4/I, III	506.5/I, III
Humidity	507.1/I, II	507.2/II, III	507.3/II, III	507.4	507.5/II
Salt Fog	509.1/I	509.2/I	509.3/I	509.4	509.5
Dust	510.1/I	510.2/I	510.3/I	510.4/I, III	510.5/I
Vibration	514.2/ VIII, X	514.3/I	514.4/I	514.5/I	514.6/I
Shock	516.2/I, II, V	516.3/I, IV	516.4/I, IV	516.5/I, IV	516.6/I, IV
Immersion*	—	—	—	512.4/I	512.5/I
<b>International Protection Standard</b>					
Dust & Water	IP54, IP55				
Immersion	IP67, IP68*				

\*Conditions: Portable radio immersed for 2 hours at a depth of 1 meter

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