



### GENERAL FEATURES

- 1 W\* (136-174 MHz) Model
- 1 W\* (450-520 MHz) Model
- 512 CH-GID / 128 Zones
- 14 Character Alphanumeric Aliases
- Backlit Dot Matrix LCD
- Function/Status LCD Icons
- Multi-Language Display
- Transmit/Busy/Call Alert/Warn LED
- On/Off Volume Knob
- 16-Position Mechanical Selector
- 6 Front PF & Menu Keys
- 2 Side PF Keys
- 500 mW Speaker Audio
- Emergency Call Features
- KPG-111D Windows® FPU
- Flash Firmware Upgrading
- MIL-STD-810 C/D/E/F/G
- IP54/55 Water & Dust Intrusion
- PC Serial Interface
- SDM Manual Input<sup>1</sup>
- Transparent Data Mode<sup>1</sup>

### DIGITAL – GENERAL

- NXDN® Digital Air Interface
- AMBE+2™ VOCODER
- 6.25 & 12.5 kHz Channels
- Over-the-Air Alias
- Over-the-Air Programming
- Paging Call
- Emergency Call
- All Group Call
- Status Messaging<sup>1</sup>
- Remote Stun/Kill<sup>1</sup>
- Remote Check<sup>1</sup>
- Short & Long Data Messages<sup>1</sup>
- NXDN® Scrambler Included

### DIGITAL – CONVENTIONAL MODE

- 64 Radio Access Numbers (RAN)
- Individual & Group Selective Call
- Mixed FM/Digital Operation
- Conventional IP Networks
- Site Roaming

### DIGITAL – TRUNKING MODE

- Individual Private Call
- Group Call & Broadcast Call
- Telephone Interconnect
- Transmission Trunked Mode<sup>2</sup>
- Message Trunked Mode<sup>2</sup>
- Call Queuing with Priority<sup>2</sup>
- Late Entry (UID & GID)<sup>2</sup>
- 4 Priority Monitor ID's<sup>2</sup>
- Remote Group Add<sup>1</sup>
- Failsoft Mode

### MULTI-SITE IP NETWORKS COMPATIBLE

- 60,000 GIDs / UIDs
- Wide Area Group Call
- Auto Roaming Registration
- Group Registration

### MULTI-SYSTEM COMPATIBLE

- 8 Trunked Networks<sup>3</sup>
- UID Lists for each network

### SCAN

- Single Zone / Multi-Zone / List Scan
- Dual Priority Scan (Conventional)

### ANALOG MODE – GENERAL

- 12.5 & 25 kHz Channels
- Conventional & LTR® Zones
- FleetSync®/II, MDC-1200, DTMF
- QT / DQT & Two-Tone (Conventional Zones Only)
- Voice Inversion Scrambler

### FleetSync®/II (FM)

- PTT ID ANI / Caller ID
- Selective / Group Call
- Emergency Status / Text Messages<sup>1</sup>

### MDC-1200

- PTT ID ANI / Caller ID
- Emergency / Radio Check & Inhibit

\* 5 W adjustable by Programming Software

## Options

**KNB-50NC**  
Ni-MH Battery (2000mAh)  
Intrinsically Safe



**KMC-41M**  
MIL-STD & IP 54/55  
Speaker Microphone



**KRA-26/27**  
VHF/UHF Whip Antenna



**KRA-28**  
VHF Broad  
Band Antenna



**KSC-32**  
Tri-Chemistry Rapid  
Rate Charger



**KEP-1**  
Heavy Duty Earphone



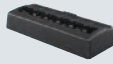
**KRA-25**  
VHF High Gain Antenna



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



**KSC-326**  
Rapid Rate Six Unit Charger  
for Ni-Cd/Ni-MH/Li-ion



## Main Specifications

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.

		NX-203	NX-303
<b>GENERAL</b>			
<b>Frequency Range</b>	<b>Type 1</b>	136-174 MHz	450-520 MHz
<b>Number of Channels</b>		512	
<b>Zones</b>		128	
<b>Max. Channels per Zone</b>		250	
<b>Channel Spacing</b>	<b>Analog</b>	12.5 / 15 / 25 / 30 kHz	12.5 / 25 kHz
	<b>Digital</b>	6.25 / 12.5 kHz	
<b>Operating Voltage</b>		7.5V DC ± 20%	
<b>Battery Life</b>	<b>5-5-90</b>	Approx. 14.5 hours	
<b>(with KNB-50NC)</b>	<b>10-10-80</b>	Approx. 9.0 hours	
<b>Operating Temperature Range</b>		-22° F to +140° F (-30° C to +60° C)	
<b>Frequency Stability</b>		± 2.0 ppm	± 1.0 ppm
<b>Antenna Impedance</b>		50 Ω	
<b>Dimensions (W x H x D)</b>	Projections not included		
	Radio only	2.28 x 5.02 x 1.63 in (58 x 127.5 x 41.3 mm)	
	with KNB-50NC	2.28 x 5.02 x 2.01 in (58 x 127.5 x 51.1 mm)	
<b>Weight (net)</b>	Radio only	8.82 oz (250 g)	
	with KNB-50NC	18.7 oz (530 g)	
<b>FCC ID</b>	<b>Type 1</b>	ALH378400	ALH378500
<b>IC Certification</b>	<b>Type 1</b>	282D-378400	282D-378500

		All Models
<b>RECEIVER</b>		
<b>Sensitivity</b>	<b>Digital @ 6.25kHz (3% BER)</b>	0.20 µV
	<b>Digital @ 12.5kHz (3% BER)</b>	0.25 µV
	<b>Analog (12 dB SINAD)</b>	0.25 µV
<b>Selectivity</b>	<b>Analog @ 25 kHz</b>	72 dB
	<b>Analog @ 12.5 kHz</b>	65 dB
<b>Intermodulation Distortion</b>	<b>Analog</b>	70 dB (±50,100 kHz)
<b>Spurious Response</b>	<b>Analog</b>	70 dB
<b>Audio Distortion</b>		Less than 3%
<b>Audio Output</b>		500 mW / 8 Ω
<b>TRANSMITTER</b>		
<b>RF Power Output</b>		5 W / 1 W
<b>Spurious Response</b>		70 dB
<b>FM Hum &amp; Noise</b>	<b>Analog @ 25 kHz</b>	45 dB
	<b>Analog @ 12.5 kHz</b>	40 dB
<b>Audio Distortion</b>		Less than 3%
<b>Modulation</b>		16K0F3E, 11K0F3E, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D

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AMBE+2<sup>™</sup> is a trademark of Digital Voice Systems Inc.  
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Footnotes from front:  
<sup>1</sup> Requires compatible PC software application or console.  
<sup>2</sup> These trunked features are primarily system programming and operational dependent. Priority Monitor also requires NX subscriber settings.  
<sup>3</sup> Up to 8 different Trunked networks can be configured per radio (each in a zone)

Analog measurements made per TIA/EIA 603 and specifications shown are typical.  
Due to advancements in technology, specifications are subject to change without notice.

## 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
<b>Low Pressure</b>	500.1/Procedure I	500.2/Procedure I, II	500.3/Procedure I, II	500.4/Procedure I, II	500.5/Procedure I, II
<b>High Temperature</b>	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
<b>Low Temperature</b>	502.1/Procedure I	502.2/Procedure I, II	502.3/Procedure I, II	502.4/Procedure I, II	502.5/Procedure I, II
<b>Temperature Shock</b>	503.1/Procedure I	503.2/Procedure I	503.3/Procedure I	503.4/Procedure I, II	503.5/Procedure I
<b>Solar Radiation</b>	505.1/Procedure I	505.2/Procedure I	505.3/Procedure I	505.4/Procedure I	505.5/Procedure I
<b>Rain</b>	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
<b>Humidity</b>	507.1/Procedure I, II	507.2/Procedure II, III	507.3/Procedure II, III	507.4	507.5/Procedure II
<b>Salt Fog</b>	509.1/Procedure I	509.2/Procedure I	509.3/Procedure I	509.4	509.5
<b>Dust</b>	510.1/Procedure I	510.2/Procedure I	510.3/Procedure I	510.4/Procedure I, III	510.5/Procedure I
<b>Vibration</b>	514.2/Procedure VIII, X	514.3/Procedure I	514.4/Procedure I	514.5/Procedure I	514.6/Procedure I
<b>Shock</b>	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
<b>Immersion (Optional)</b>	-	-	-	512.4/Procedure I	512.5/Procedure I
<b>International Protection Standard</b>					
<b>Dust &amp; Water Protection</b>	IP54/55				

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ADS#40515 Printed in USA