

## NEXEDGE®

# NX-200/300IS

NEXEDGE® VHF/UHF Digital & FM Portable Radios

**NXDN®**

**FleetSync®**  
by KENWOOD

### GENERAL FEATURES

- 5 W (136-174 MHz) Models
- 5 W (400-470, 450-520 MHz) Models
- 512 CH-GID / 128 Zones
- 12-Key Keypad Models
- 14 Character Alphanumeric Aliases
- Backlit Dot Matrix LCD
- 3-Digit Sub-Display
- Function/Status LCD Icons
- RSSI Indicator
- Date & 12/24 Hour Time Clock
- Transmit/Busy/Call Alert/Warn LED
- On/Off Volume Knob
- 16-Position Mechanical Selector
- 6 Front PF & Menu Keys
- 2 Side PF Keys
- Emergency/AUX Key
- 500 mW Speaker Audio
- VOX Ready
- Emergency Call Features
- Emergency Man-Down Option
- Lone Worker
- Multi-Language Display
- Programmable TX/RX Indication (On/Off)
- Special Alert Tone Patterns
- Time Out Timer
- Busy Channel Lockout
- LCD Battery Status Indicator
- Low Battery Alert
- Battery Saver
- Weather-sealed ACC Connector
- MIL-Spec Speaker Mic Options
- KMC-47GPS Speaker Mic Option
- KPG-111D Windows® FPU
- Flash Firmware Upgrading
- Front Panel Test & Tune
- Cloning
- MIL-STD-810 C/D/E/F
- MIL-STD "Driven-Rain"
- IP-54/55 Water & Dust Intrusion
- Easy Option Port
- PC Serial Interface
- SDM Manual Input<sup>1</sup>
- Transparent Data Mode<sup>1</sup>
- Intrinsically Safe Option
- VGS-1 Voice Guide/ Voice & GPS Data Storage Option

### DIGITAL – COMMON

- NXDN® Digital Air Interface
- AMBE+2™ VOCODER
- 6.25 & 12.5 kHz Channels
- Over-the-Air Alias
- 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>
- GPS Location with Voice<sup>1</sup>
- NXDN® Scrambler Included (Conventional: per CH)

### DIGITAL – CONVENTIONAL MODE

- 64 Radio Access Numbers (RAN)
- DTMF (Encode/Decode)
- Individual & Group Selective Call
- Mixed FM/Digital Operation

### DIGITAL – TRUNKING MODE

- Individual Private Call
- Group Call
- Broadcast Call
- Transmission Trunked Mode<sup>2</sup>
- Message Trunked Mode<sup>2</sup>
- Call Queuing with Priority<sup>2</sup>
- Call Queue Pre-emption<sup>2</sup>
- Late Entry (UID & GID)<sup>2</sup>
- 4 Priority Monitor ID's<sup>2</sup>
- Remote Group Add<sup>1</sup>
- Failsafe Mode
- Multi-Site IP Network Compatible

### SCAN

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

### FM MODES – GENERAL

- 25 & 12.5 kHz Channels
- FleetSync®/II
- DTMF Encode / Decode
- Companded Audio
- Voice Inversion Scrambler
- Encryption/ANI Board Control

### FM CONVENTIONAL ZONES

- QT / DQT
- Two-Tone Decode
- Single/Two-Tone Encode
- Call Key 1-6
- Operator Selectable Tone

### FM LTR® TRUNKED ZONES

- Kenwood LTR® Features

### FleetSync®/II (FM)

- PTT ID Digital ANI
- Selective Call & Group Call
- Status Messaging<sup>1</sup>
- Emergency Status
- Caller ID Display
- Short Text Messages<sup>1</sup>
- Power On/Off Status Messages<sup>1</sup>
- Send/Display GPS (KMC-47GPS)<sup>1</sup>
- PTT ID & Emergency GPS Reporting<sup>1</sup>
- Status Message Block GPS Reporting<sup>1</sup>



# Options

<p>■ <b>KNB-50NC</b> Ni-MH Battery (2000mAh) Intrinsically Safe</p> 	<p>■ <b>KMC-41M</b> MIL-STD &amp; IP 54/55 Speaker Microphone</p> 	<p>■ <b>KRA-22/23</b> VHF/UHF Helical Antenna</p> 	<p>■ <b>KRA-28</b> VHF Broad Band Antenna</p> 
<p>■ <b>KSC-32</b> Tri-Chemistry Rapid Rate Charger</p> 	<p>■ <b>KMC-47GPS</b> GPS Speaker Microphone</p> 	<p>■ <b>KRA-26/27</b> VHF/UHF Whip Antenna</p> 	<p>■ <b>VGS-1</b> Voice Guide &amp; Storage Unit</p> 
<p>■ <b>KSC-326</b> Rapid Rate Six Unit Charger for Ni-Cd/Ni-MH/Li-ion</p> 	<p>■ <b>KHS-11</b> Heavy Duty Earphone</p> 	<p>■ <b>KRA-16/17</b> VHF/UHF Stubby Antenna</p> 	<p>■ <b>KBH-11</b> Belt Clip (2.5")</p> 
<p>■ <b>KEP-1</b> Heavy Duty Earphone</p> 	<p>■ <b>KRA-25</b> VHF High Gain Antenna</p> 		

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-200	NX-300
<b>GENERAL</b>			
<b>Frequency Range</b>	Type 1 Type 2	136-174 MHz	450-520 MHz 400-470 MHz
<b>Number of Channels</b>		512	
<b>Zones</b>		128	
<b>Max. Channels per Zone</b>		250	
<b>Channel Spacing</b>	Analog Digital	12.5 / 15 / 25 / 30 kHz 6.25 / 12.5 kHz	12.5 / 25 kHz 6.25 / 12.5 kHz
<b>Operating Voltage</b>		7.5V DC ± 20%	
<b>Battery Life (with KNB-50NC)</b>	5-5-90 10-10-80	Approx. 11.0 hours Approx. 7.0 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		
	<b>Radio only with KNB-50NC</b>	2.28 x 5.02 x 1.63 in (58 x 127.5 x 41.3 mm) 2.28 x 5.02 x 2.01 in (58 x 127.5 x 51.1 mm)	
<b>Weight (net)</b>	<b>Radio only with KNB-50NC</b>	8.82 oz (250 g) 18.70 oz (530 g)	
<b>FCC ID</b>	Type 1 Type 2	ALH378400	ALH378500 ALH378501
<b>IC Certification</b>	Type 1 Type 2	282D-378400	282D-378500 282D-378501

		NX-200	NX-300
<b>RECEIVER</b>			
<b>Sensitivity</b>	Digital @ 6.25kHz (3% BER) Digital @ 12.5kHz (3% BER) Analog (12 dB SINAD)	0.20 µV 0.25 µV 0.25 µV	
<b>Selectivity</b>	Analog @ 25 kHz Analog @ 12.5 kHz	72 dB 65 dB	
<b>Intermodulation Distortion</b>	Analog	70 dB (±50,100 kHz)	
<b>Spurious Response</b>	Analog	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>	Analog @ 25 kHz Analog @ 12.5 kHz	45 dB 40 dB	
<b>Audio Distortion</b>		Less than 3%	
<b>Modulation</b>		16K0F3E, 11K0F3E, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D	

Analog measurements made per TIA/EIA 603 and specifications shown are typical. Kenwood reserves the right to change specifications without prior notice or obligation.

FleetSync® is a registered trademark of Kenwood Corporation.  
LTR® is a registered trademark of Transcript International.  
AMBE+2™ is a trademark of Digital Voice Systems Inc.  
Windows® is a registered trademark of Microsoft Corporation.  
NXDN® is a registered trademark of Kenwood Corporation and Icom Inc.  
NEXEDGE® is a registered trademark of Kenwood Corporation.

## Applicable MIL-STD & IP

MIL Standard	MIL 810C Methods/Procedures	MIL 810D Methods/Procedures	MIL 810E Methods/Procedures	MIL 810F 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
<b>High Temperature</b>	501.1/Procedure I, II	501.2/Procedure I, II	501.3/Procedure I, II	501.4/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
<b>Temperature Shock</b>	503.1/Procedure I	503.2/Procedure I	503.3/Procedure I	503.4/Procedure I, II
<b>Solar Radiation</b>	505.1/Procedure I	505.2/Procedure I	505.3/Procedure I	505.4/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
<b>Humidity</b>	507.1/Procedure I, II	507.2/Procedure II, III	507.3/Procedure II, III	507.4
<b>Salt Fog</b>	509.1/Procedure I	509.2/Procedure I	509.3/Procedure I	509.4
<b>Dust</b>	510.1/Procedure I	510.2/Procedure I	510.3/Procedure I	510.4/Procedure I, III
<b>Vibration</b>	514.2/Procedure VIII, X	514.3/Procedure I	514.4/Procedure I	514.5/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
<b>International Protection Standard</b>				
<b>Dust &amp; Water Protection</b>	IP54/55			

footnotes from Front:

<sup>1</sup> Requires NX subscriber unit PC Serial Interface compatible software application (e.g. Kenwood AVL & Dispatch Messaging software) or hardware (e.g. console).

<sup>2</sup> These trunked features are primarily system programming and operational dependent. Priority Monitor also requires NX subscriber settings.

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ISO9001 Registered  
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ISO9001 certification  
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