

# KENWOOD

Listen to the Future

NEXEDGE®

## NX-200S/300S

NEXEDGE® VHF/UHF Digital & FM Portable Radios

**NXDN® FleetSync®**



### ● GENERAL FEATURES

- 5 W (136-174 MHz) Models
- 5 W (400-470 MHz) Models
- Meets ETSI EN Standards
- 64 CH-GID / 4 Zones
- Transmit / Busy / Call Alert / Warn LED
- On / Off Volume Knob
- 16-Position Mechanical Selector
- 2 Side PF Keys
- Emergency / AUX Key
- 500 mW Speaker Audio
- VOX Ready
- Emergency Call Features
- Emergency Man-Down Option
- Lone Worker
- Easy Option Port
- Special Alert Tone Patterns
- Time Out Timer
- Busy Channel Lockout
- LED Battery Status Indicator
- Low Battery Alert
- Battery Saver
- Weather-sealed ACC Connector
- MIL-Spec Speaker Mic Options
- KMC-38GPS Speaker Mic Option
- KPG-111D Windows® FPU\*<sup>1</sup>
- Flash Firmware Upgrading
- MIL-STD-810 C/D/E/F
- IP54/55 Water & Dust Intrusion
- PC Serial Interface
- VGS-1 Voice Guide / GPS Data Storage Option
- Transparent Data Mode\*<sup>2</sup>

### ● DIGITAL – GENERAL

- NXDN® Digital Air Interface
- AMBE+2™ VOCODER
- 6.25 & 12.5 kHz Channels
- Over-the-Air Alias (TX)
- Emergency Call
- All Group Call
- Status Messaging\*<sup>2</sup> \*<sup>3</sup>
- Remote Stun / Kill\*<sup>2</sup>
- Remote Check\*<sup>2</sup>
- Short & Long Data Messages\*<sup>2</sup>
- GPS Location with Voice\*<sup>2</sup>
- NXDN® Scrambler Included

### ● DIGITAL – CONVENTIONAL MODE

- 64 Radio Access Numbers (RAN)
- Individual & Group Selective Call\*<sup>4</sup>
- Mixed FM / Digital Operation

### ● DIGITAL – TRUNKING MODE

- Individual Private Call (RX / Talkback only)
- Group Call
- Broadcast Call
- Transmission Trunked Mode\*<sup>5</sup>
- Message Trunked Mode\*<sup>5</sup>
- Call Queuing with Priority\*<sup>5</sup>
- Late Entry (UID & GID)\*<sup>5</sup>
- 4 Priority Monitor ID's\*<sup>5</sup>
- Remote Group Add\*<sup>2</sup>
- Failsoft Mode\*<sup>5</sup>

### ● MULTI-SITE IP NETWORK COMPATIBLE

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

### ● SCAN

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

### ● FM MODES – GENERAL

- 25, 20 & 12.5 kHz Channels
- FleetSync® / II\*<sup>4</sup>
- DTMF Encode / Decode\*<sup>4</sup>
- Companded Audio
- Voice Inversion Scrambler
- ANI Board Control

### ● FM CONVENTIONAL ZONES

- QT / DQT
- Two-Tone Decode
- Single / Two-Tone Encode\*<sup>3</sup>
- Call Key 1-6

### ● FM LTR® TRUNKED ZONES

- Kenwood LTR® Features

### ● FleetSync® / II (FM)\*<sup>4</sup>

- PTT ID Digital ANI
- Selective Call & Group Call\*<sup>4</sup>
- Status Messaging\*<sup>2</sup> \*<sup>3</sup>
- Emergency Status
- Short Text Messages\*<sup>2</sup>
- Power On / Off Status Messages\*<sup>2</sup>
- Send GPS (KMC-38GPS)\*<sup>2</sup>
- PTT ID & Emergency GPS Reporting\*<sup>2</sup>
- Status Message Block GPS Reporting\*<sup>2</sup>

<sup>1</sup> The KPG-111D must be version 2.00 or later.

<sup>2</sup> Requires NX subscriber unit PC Serial Interface compatible software application (e.g. Kenwood AVL & Dispatch Messaging software) or hardware (e.g. console).

<sup>3</sup> Pre-programmed key operation

<sup>4</sup> Some screen/key-based functions are not available on the NX-200S/300S.

<sup>5</sup> These trunked features are primarily system programming and operational dependent. Priority monitor also requires NX subscriber settings.

## Options

<p>■ <b>KNB-47L</b> Li-Ion Battery (1950mAh)</p> 	<p>■ <b>KMC-41</b> Heavy Duty Speaker Microphone with Noise-cancelling</p> 	<p>■ <b>KVC-21</b> Vehicular Charger</p> 	<p>■ <b>KHS-14</b> Lightweight Single Muff Headset</p> 
<p>■ <b>KNB-48L</b> Li-Ion Battery (2550mAh)</p> 	<p>■ <b>KMC-42W</b> IP67 Heavy Duty Speaker Microphone with Noise-cancelling</p> 	<p>■ <b>KEP-1</b> Heavy Duty Earphone</p> 	<p>■ <b>KHS-15-OH</b> Heavy Duty Over-the-Head Headset</p> 
<p>■ <b>KSC-32</b> Tri-Chemistry Rapid Rate Charger</p> 	<p>■ <b>KMC-38GPS</b> GPS Speaker Microphone</p> 	<p>■ <b>KHS-11BL</b> 2-Wire Palm Mic with Earphone</p> 	<p>■ <b>KRA-22/23</b> VHF/UHF Helical Antenna</p> 
<p>■ <b>KSC-326</b> Multiple Charger</p> 	<p>■ <b>VGS-1</b> Voice Guide and Storage Unit</p> 	<p>■ <b>KHS-12BL</b> 3-Wire Mini Lapel Mic with Earphone</p> 	<p>■ <b>KRA-26/27</b> VHF/UHF Whip Antenna</p> 
<p>■ <b>KLH-174NC</b> Nylon Case</p>	<p>■ <b>KLH-175PC</b> Hard Leather Case</p>	<p>■ <b>KLH-176PG</b> Hard Leather Case With Swivel Belt Loop</p>	<p>■ <b>KBH-11</b> Belt Clip</p> 

## 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.

GENERAL	NX-200S	NX-300S
<b>Frequency Range</b>	136-174 MHz	400-470 MHz
<b>Number of Channels</b>	64	
<b>Zones</b>	4	
<b>Max. Channels per Zone</b>	16	
<b>Channel Spacing</b>	<b>Analogue</b> 12.5 / 20 / 25 kHz <b>Digital</b> 6.25 / 12.5 kHz	
<b>Operating Voltage</b>	7.5 V DC ± 20%	
<b>Battery Life (with KNB-48L)</b>	5-5-90 More than 14.5 hours 10-10-80 More than 9.0 hours	
<b>Operating Temperature Range</b>	-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</b> 58 x 128.3 x 41.7 mm <b>with KNB-47L</b> 58 x 128.3 x 41.7 mm <b>with KNB-48L</b> 58 x 128.3 x 49.1 mm	
<b>Weight (net)</b>	<b>Radio only</b> 255 g <b>with KNB-47L</b> 370 g <b>with KNB-48L</b> 400 g	
<b>Applicable Standards</b>	<b>ETSI R &amp; TTE</b> EN 300 086, EN 300 113, EN 300 219, EN 301 489, EN 301 166 <b>ETSI Safety</b> EN 60065, EN 60950-1, EN 60215	

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.

RECEIVER	NX-200S	NX-300S
<b>Sensitivity (Analogue)</b>	EIA 12dB SINAD 0.28 μV / 0.28 μV / 0.32 μV	
<b>(25kHz / 20kHz / 12.5kHz)</b>	EN 20dB SINAD -3 dB μV (0.35 μV) / -3 dB μV (0.35 μV) / -1 dB μV (0.45 μV)	
<b>Sensitivity (Digital)</b>	3% BER 0.32 μV / 0.25 μV	
<b>(12.5kHz / 6.25kHz)</b>	1% BER -1 dB μV (0.45 μV) / -4 dB μV (0.32 μV)	
<b>Adjacent Channel Selectivity (Analogue)</b>	(25kHz / 20kHz / 12.5kHz) 76 dB / 74 dB / 68 dB	
<b>Intermodulation (Analogue)</b>	65 dB	
<b>Spurious Response Rejection (Analogue)</b>	75 dB	
<b>Audio Distortion</b>	Less than 3%	
<b>Audio Output</b>	500 mW / 8 Ω	
TRANSMITTER		
<b>RF Power Output</b>	High / Low 5 W / 1 W	
<b>Modulation Limiting (Analogue)</b>	± 5.0 kHz at 25 kHz ± 4.0 kHz at 20 kHz ± 2.5 kHz at 12.5 kHz	
<b>Spurious Emission</b>	-36 dBm ≤ 1 GHz, -30 dBm > 1 GHz	
<b>FM Noise (EIA)</b>	(Analogue, 25 kHz / 20 kHz / 12.5 kHz) 45 dB / 45 dB / 40 dB	
<b>Modulation Distortion</b>	Less than 3%	
<b>Microphone Impedance</b>	1.8 kΩ	
<b>Modulation</b>	16K0F3E, 14K0F3E, 14K0F2D, 12K0F2D, 8K50F3E, 7K50F2D, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D	

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

## 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			

## Listen to the Future

Kenwood has always connected with people through sound. Now we want to expand the world of sound in ways that only Kenwood can, listening to our customers and to the pulse of the coming age as we head toward a future of shared discovery, inspiration and enjoyment.

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