

# KENWOOD

Listen to the Future

NEXEDGE™

## NX-200/300

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-38GPS 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"
- IP54/55 Water & Dust Intrusion
- Easy Option Port
- PC Serial Interface
- SDM Manual Input\*1
- Transparent Data Mode\*1
- Intrinsically Safe Option
- VGS-1 Voice Guide / Voice & GPS Data Storage Option

### ● DIGITAL – GENERAL

- 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\*1
- Remote Stun/Kill\*1
- Remote Check\*1
- Short & Long Data Messages\*1
- GPS Location with Voice\*1
- Advanced Transparent Data Mode\*1
- 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
- Transmission Trunked Mode\*2
- Message Trunked Mode\*2
- Call Queuing with Priority\*2
- Late Entry (UID & GID)\*2
- 4 Priority Monitor ID's\*2
- Remote Group Add\*1
- Failsoft Mode

### ● MULTI-SITE IP NETWORKS 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 & 12.5 kHz Channels
- FleetSync®/II
- DTMF Encode / Decode
- Companded Audio
- Voice Inversion Scrambler
- ANI Board Control
- Analog Scrambler Board Capability

### ● FM CONVENTIONAL ZONES

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

### ● FM LTR® TRUNKED ZONES

- Kenwood LTR® Features

### ● FleetSync®/II (FM)

- PTT ID Digital ANI
- Selective Call & Group Call
- Status Messaging\*1
- Emergency Status
- Caller ID Display
- Short Text Messages\*1
- Power On/Off Status Messages\*1
- Send/Display GPS (KMC-38GPS)\*1
- PTT ID & Emergency GPS Reporting\*1
- Status Message Block GPS Reporting\*1

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

\*2 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>KEP-1</b> Heavy Duty Earphone</p> 	<p>■ <b>KHS-15-OH</b> Heavy Duty Over-the-Head 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>KHS-11BL</b> 2-Wire Palm Mic with Earphone</p> 	<p>■ <b>KRA-22/23</b> VHF/UHF Helical Antenna</p> 
<p>■ <b>KSC-32</b> Tri-Chemistry Rapid Rate Charger</p> 	<p>■ <b>KMC-38GPS</b> GPS Speaker Microphone</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>KSC-326</b> Multiple Charger</p> 	<p>■ <b>VGS-1</b> Voice Guide and Storage Unit</p> 	<p>■ <b>KHS-14</b> Lightweight Single Muff Headset</p> 	<p>■ <b>KBH-11</b> Belt Clip</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>			
Frequency Range	Type 1	136-174 MHz	450-520 MHz
	Type 2		400-470 MHz
Number of Channels		512	
Zones		128	
Max. Channels per Zone		250	
Channel Spacing	Analog	12.5 / 15 / 25 / 30 kHz	12.5 / 25 kHz
	Digital	6.25 / 12.5 kHz	6.25 / 12.5 kHz
Operating Voltage		7.5V DC ± 20%	
Battery Life (with KNB-48L)	5-5-90	More than 14.5 hours	
	10-10-80	More than 9.0 hours	
Operating Temperature Range		-30° C to +60° C (-22° F to +140° F)	
Frequency Stability		± 2.0 ppm	± 1.0 ppm
Antenna Impedance		50 Ω	
Dimensions (W x H x D)	Projections not included		
	Radio only	58 x 127.5 x 41.3 mm	
	with KNB-47L	58 x 127.5 x 41.3 mm	
	with KNB-48L	58 x 127.5 x 48.5 mm	
Weight (net)	Radio only	260 g	
	with KNB-47L	375 g	
	with KNB-48L	405 g	

		NX-200	NX-300
<b>RECEIVER</b>			
Sensitivity	Digital @ 6.25kHz (3% BER)	0.20 μV	
	Digital @ 12.5kHz (3% BER)	0.25 μV	
	Analog (12 dB SINAD)	0.25 μV	
Selectivity	Analog @ 25 kHz	72 dB	
	Analog @ 12.5 kHz	65 dB	
Intermodulation Distortion	Analog	70 dB (±50,100 kHz)	
Spurious Response	Analog	70 dB	
Audio Distortion		Less than 3%	
Audio Output		500 mW / 8 Ω	
<b>TRANSMITTER</b>			
RF Power Output		5 W / 1 W	
Spurious Response		70 dB	
FM Hum & Noise	Analog @ 25 kHz	45 dB	
	Analog @ 12.5 kHz	40 dB	
Audio Distortion		Less than 3%	
Modulation		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 trademark of Kenwood Corporation in U.S.A. and some countries.

## Applicable MIL-STD & IP

MIL Standard	MIL 810C Methods/Procedures	MIL 810D Methods/Procedures	MIL 810E Methods/Procedures	MIL 810F Methods/Procedures
Low Pressure	500.1/Procedure I	500.2/Procedure I, II	500.3/Procedure I, II	500.4/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
Low Temperature	502.1/Procedure I	502.2/Procedure I, II	502.3/Procedure I, II	502.4/Procedure I, II
Temperature Shock	503.1/Procedure I	503.2/Procedure I	503.3/Procedure I	503.4/Procedure I, II
Solar Radiation	505.1/Procedure I	505.2/Procedure I	505.3/Procedure I	505.4/Procedure I
Rain	506.1/Procedure I, II	506.2/Procedure I, II	506.3/Procedure I, II	506.4/Procedure I, III
Humidity	507.1/Procedure I, II	507.2/Procedure II, III	507.3/Procedure II, III	507.4
Salt Fog	509.1/Procedure I	509.2/Procedure I	509.3/Procedure I	509.4
Dust	510.1/Procedure I	510.2/Procedure I	510.3/Procedure I	510.4/Procedure I, III
Vibration	514.2/Procedure VIII, X	514.3/Procedure I	514.4/Procedure I	514.5/Procedure I
Shock	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>				
Dust & Water Protection	IP54			
	IP55			

## 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.

## Kenwood Corporation

1-16-2 Hakusan, Midori-ku, Yokohama-shi, Kanagawa, 226-8525 Japan

www.kenwood.com

http://nexedge.kenwood.com

