

#### GENERAL FEATURES

- Built-In GPS Unit
- 5 W (136-174 MHz) Models
- 5 W (400-470 MHz) Models
- Meets ETSI EN Standards
- 512 CH-GID / 128 Zones
- 12-Key Keypad Models
- 14 Character Alphanumeric Aliases
- Backlit Dot Matrix LCD
- Function/Status LCD Icons
- Multi-Language Display
- 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
- 500 mW Speaker Audio
- Emergency Call Features
- KMC-51/D / 52/D Digital Noise-Canceling Speaker Mic Option
- KPG-111D Windows® FPU
- Flash Firmware Upgrading
- MIL-STD-810 C/D/E/F/G

#### GENERAL FEATURES Cont.

- IP54/55 Dust Intrusion
- IP67 Water 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>
- GPS Location with Voice<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>
- Failsafe Mode

#### MULTI-SITE IP NETWORK 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)

#### ANALOGUE MODE – GENERAL

- 25, 20 & 12.5kHz Channels
- Conventional & MPT Zones
- FleetSync®/II, MDC-1200, DTMF
- QT / DQT & Two-Tone (Conventional Zones Only)
- 5-tone Encode / Decode
- Voice Inversion Scrambler
- Analogue Scrambler Board Capability
- Voting

#### MPT ZONES\*

- Single-Site Trunking
- Multi-Site Network Trunking
- 8 Network Capacity
- Network Roaming / Registration

#### 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

\* Firmware update will be available in Autumn 2014.

<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)

Two Models Available:  
14 Character LCD, 6 Front PF Keys, 12-Keypad (left);  
14 Character LCD, 6 Front PF Keys (right)



## Options

<p>■ <b>KNB-47L</b> Li-Ion Battery (7.4V/1950mAh)</p> 	<p>■ <b>KMC-41/D</b> Stereo Microphone (IP55)</p> 	<p>■ <b>KHS-11BL</b> Aluminum Microphone with Earphone</p> 	<p>■ <b>KRA-43G/44G</b> Helical Antenna (GPS Combination)</p> 
<p>■ <b>KNB-48L</b> Li-Ion Battery (7.4V/2550mAh)</p> 	<p>■ <b>KMC-42W/WD</b> Stereo Microphone (IP67)</p> 	<p>■ <b>KHS-12BL</b> 3-Wire Mini Lapel Microphone with Earphone</p> 	<p>■ <b>KRA-22/23</b> Helical Antenna (Low Profile)</p> 
<p>■ <b>KSC-32</b> Rapid Charger</p> 	<p>■ <b>KVC-21</b> Vehicle Charger</p> 	<p>■ <b>KHS-14</b> Lightweight Single Muff Headset with PTT</p> 	<p>■ <b>KRA-26/27</b> Helical UHF Whip Antenna (Standard Length)</p> 
<p>■ <b>KSC-326</b> Multiple Charger (6-unit Rapid Rate)</p> 	<p>■ <b>KEP-1</b> 3.5mm Earphone Kit</p> 	<p>■ <b>KHS-15-OH</b> Over-the-Head Heavy Duty Headset</p> 	<p>■ <b>KBH-11</b> Belt Clip (2.5")</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-200G	NX-300G
<b>GENERAL</b>		
Frequency Range	136-174 MHz	400-470 MHz
Number of Channels		512
Zones		128
Max. Channels per Zone		250
Channel Spacing	Analogue 12.5 / 20 / 25 kHz Digital 6.25 / 12.5 kHz	
Operating Voltage	7.5V DC ± 20%	
Battery Life	with KNB-47L Approx. 11 hours with KNB-48L Approx. 14 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	
Applicable Standards	ETSI (EMC) EN 301 489-5, EN 301 489-3 ETSI (Spectrum) EN 300 086-2, EN 300 113-2, EN 300 219-2, EN 301 166-2, EN 300 440-2 ETSI Safety EN 60065, EN 60950-1, EN 60215	

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

	NX-200G	NX-300G
<b>RECEIVER</b>		
Sensitivity (Analogue)	0.28 μV / 0.28 μV / 0.32 μV	
(25 kHz/20 kHz/12.5 kHz)	EIA 12 dB SINAD	-3 dB μV (0.35 μV) / -3 dB μV (0.35 μV) / -1 dB μV (0.45 μV)
	EN 20 dB SINAD	0.32 μV / 0.25 μV
Sensitivity (Digital)	3% BER	-1 dB μV (0.45 μV) / -4 dB μV (0.32 μV)
(12.5 kHz/6.25 kHz)	1% BER	
Adjacent Channel Selectivity (Analogue)	(25 kHz/20 kHz/12.5 kHz) 76 dB / 74 dB / 68 dB	
Intermodulation (Analogue)	65 dB	
Spurious Response Rejection (Analogue)	75 dB	
Audio Distortion	Less than 3%	
Audio Output	500 mW / 8 Ω	
<b>TRANSMITTER</b>		
RF Power Output	High / Low	5 W / 1 W
Modulation Limiting (Analogue)	±5.0 kHz at 25 kHz ±4.0 kHz at 20 kHz ±2.5 kHz at 12.5 kHz	
Spurious Emission	-36 dBm ≤ 1 GHz, -30 dBm > 1 GHz	
FM Noise (EIA)	(Analog, 25 kHz/20 kHz/12.5 kHz) 45 dB / 45 dB / 40 dB	
Modulation Distortion	Less than 3%	
Microphone Impedance	1.8 kΩ	
Modulation	16K0F3E, 14K0F3E, 14K0F2D, 12K0F2D, 8K50F3E, 7K50F2D, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D	
<b>GPS*</b>		
Time to First Fix	Cold Start	< 60 Seconds
	Hot Start	< 10 Seconds
Horizontal Accuracy	< 10 Meters	
Channels	50 Channels	
Tracking Sensitivity	-162 dBm	

\*Accuracy specs are for long-term tracking (95th percentile values > 5 satellites visible at a nominal -130 dBm signal strength)  
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	MIL 810G Methods/Procedures
Low Pressure	500.1/Procedure I	500.2/Procedure I, II	500.3/Procedure I, II	500.4/Procedure I, II	500.5/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	501.5/Procedure I, II
Low Temperature	502.1/Procedure I	502.2/Procedure I, II	502.3/Procedure I, II	502.4/Procedure I, II	502.5/Procedure I, II
Temperature Shock	503.1/Procedure I	503.2/Procedure I	503.3/Procedure I	503.4/Procedure I, II	503.5/Procedure I
Solar Radiation	505.1/Procedure I	505.2/Procedure I	505.3/Procedure I	505.4/Procedure I	505.5/Procedure I
Rain	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
Humidity	507.1/Procedure I, II	507.2/Procedure II, III	507.3/Procedure II, III	507.4	507.5/Procedure II
Salt Fog	509.1/Procedure I	509.2/Procedure I	509.3/Procedure I	509.4	509.5
Dust	510.1/Procedure I	510.2/Procedure I	510.3/Procedure I	510.4/Procedure I, III	510.5/Procedure I
Vibration	514.2/Procedure VIII, X	514.3/Procedure I	514.4/Procedure I	514.5/Procedure I	514.6/Procedure I
Shock	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
Immersion (Optional)	-	-	-	512.4/Procedure I	512.5/Procedure I
<b>International Protection Standard</b>					
Dust & Water Protection	IP54/55, IP67				

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