

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 Input¹
- Transparent Data Mode¹

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 Messaging¹
- Remote Stun/Kill¹
- Remote Check¹
- Short & Long Data Messages¹
- GPS Location with Voice¹
- 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 Mode²
- Message Trunked Mode²
- Call Queuing with Priority²
- Late Entry (UID & GID)²
- 4 Priority Monitor ID's²
- Remote Group Add¹
- Failsoft Mode

MULTI-SITE IP NETWORK COMPATIBLE

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

MULTI-SYSTEM COMPATIBLE

- 8 Trunked Networks³
- 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 Messages¹

MDC-1200

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

* Firmware update will be available in Autumn 2014.

¹ Requires compatible PC software application or console.

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

³ 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>■ KNB-47L Li-Ion Battery (7.4V/1950mAh)</p> 	<p>■ KMC-41/D Speaker Microphone (IP55)</p> 	<p>■ KHS-11BL 2-Wire Palm Microphone with Earphone</p> 	<p>■ KRA-43G/44G VHF/UHF Helical Antenna (GPS Combination)</p> 
<p>■ KNB-48L Li-Ion Battery (7.4V/2550mAh)</p> 	<p>■ KMC-42W/WD Speaker Microphone (IP67)</p> 	<p>■ KHS-12BL 3-Wire Mini Lapel Microphone with Earphone</p> 	<p>■ KRA-22/23 VHF/UHF Helical Antenna (Low Profile)</p> 
<p>■ KSC-32 Rapid Charger</p> 	<p>■ KVC-21 Vehicular Charger</p> 	<p>■ KHS-14 Lightweight Single Muff Headset with PTT</p> 	<p>■ KRA-26/27 VHF Helical/UHF Whip Antenna (Standard Length)</p> 
<p>■ KSC-326 Multiple Charger (6-unit Rapid Rate)</p> 	<p>■ KEP-1 3.5mm Earphone Kit</p> 	<p>■ KHS-15-OH Over-the-Head Heavy Duty Headset</p> 	<p>■ KBH-11 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
GENERAL		
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	

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

	NX-200G	NX-300G
RECEIVER		
Sensitivity (Analogue) (25 kHz/20 kHz/12.5 kHz)	EIA 12 dB SINAD EN 20 dB SINAD	0.28 μV / 0.28 μV / 0.32 μV -3 dB μV (0.35 μV) / -3 dB μV (0.35 μV) / -1 dB μV (0.45 μV)
Sensitivity (Digital) (12.5 kHz/6.25 kHz)	3% BER 1% BER	0.32 μV / 0.25 μV -1 dB μV (0.45 μV) / -4 dB μV (0.32 μV)
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
TRANSMITTER		
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
GPS*		
Time to First Fix	Cold Start Hot Start	< 60 Seconds < 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
International Protection Standard					
Dust & Water Protection	IP54/55, IP67				

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