

#### ● 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
- 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
- Built-In GPS Unit
- KMC-51/52 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 Water & Dust Intrusion
- Immersion (IP67) Option
- PC Serial Interface
- SDM Manual Input<sup>1</sup>
- Transparent Data Mode<sup>1</sup>
- VGS-1 Voice Guide/ Voice & GPS Data Storage Option
- Color Housing Option

#### ● 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
- DES Encryption Module Option
- AES & DES Encryption Module Option
- AES/DES Software Key Loader Option

#### ● 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>
- Failsoft Mode

#### ● MULTI-SITE IP NETWORKS 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)

#### ● ANALOG MODE – GENERAL

- 12.5 & 25 kHz Channels
- Conventional & LTR® or MPT Zones
- FleetSync®/II, MDC-1200, DTMF
- QT / DQT & Two-Tone (Conventional Zones Only)
- Voice Inversion Scrambler
- Analog Scrambler Board Capability

#### ● 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

\* Future Availability

Two Models Available:  
14 Character LCD, 6 Front PF Keys  
14 Character LCD, 6 Front PF Keys, 12-Key DTMF Keypad.



# Options

- **KNB-47L**  
Li-Ion Battery  
(1950mAh)
- **KNB-48L**  
Li-Ion Battery  
(2550mAh)
- **KNB-50NC**  
Ni-MH Battery  
(2000mAh) Intrinsically Safe
- **KBP-7**  
Alkaline Battery Case
- **KSC-32**  
Tri-Chemistry Rapid  
Rate Charger



- **KSC-326**  
Rapid Rate Six Unit Charger  
for Ni-Cd/Ni-MH/Li-Ion
- **KMC-41M**  
MIL-STD & IP 54/55  
Speaker Microphone
- **KMC-51/52**  
DSP Digital  
Noise-Canceling  
Speaker Microphone
- **KHS-11**  
Heavy Duty Earphone



- **KEP-1**  
Heavy Duty Earphone
- **KRA-43G/44G**  
VHF/UHF,GPS  
Helical Antenna
- **KRA-26/27**  
VHF/UHF Whip Antenna
- **KRA-16/17**  
VHF/UHF Stubby Antenna



- **KRA-25**  
VHF High Gain Antenna
- **KRA-28**  
VHF Broad  
Band Antenna
- **VGS-1**  
Voice Guide  
& Storage Unit
- **KBH-11**  
Belt Clip (2.5")



## 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.

		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	512
<b>Zones</b>		128	128
<b>Max. Channels per Zone</b>		250	250
<b>Channel Spacing</b>	Analog Digital	12.5 / 15 / 25 / 30 kHz	12.5 / 25 kHz 6.25 / 12.5 kHz
<b>Operating Voltage</b>		7.5V DC ± 20%	
<b>Battery Life (with KNB-48L)</b>	5-5-90 10-10-80	Approx. 14.5 hours Approx. 9.0 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 Radio only with KNB-47L with KNB-48L	2.28 x 5.02 x 1.63 in (58 x 127.5 x 41.3 mm) 2.28 x 5.02 x 1.63 in (58 x 127.5 x 41.3 mm) 2.28 x 5.02 x 1.91 in (58 x 127.5 x 48.5 mm)	
<b>Weight (net)</b>	Radio only with KNB-47L with KNB-48L	9.17 oz (260 g) 13.23 oz (375 g) 14.29 oz (405 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

FleetSync® is a registered trademark of JVCKENWOOD 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 JVCKENWOOD Corporation and Icom Inc.  
NEXEDGE® is a registered trademark of JVCKENWOOD Corporation.

*Footnotes from front:*  
<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)

		All Models
<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
<b>GPS*</b>		
<b>Time to First Fix</b>	Cold Start Hot Start	< 60 Seconds < 10 Seconds
<b>Horizontal Accuracy</b>		< 10 Meters
<b>Channels</b>		50 Channels
<b>Tracking Sensitivity</b>		-162 dBm

\*Accuracy specs are for long-term tracking (95th percentile values > 5 satellites visible at a nominal -130 dBm signal strength)

Analog measurements made per TIA/EIA 603 and specifications shown are typical. Specifications are subject to change without notice, due to advancements in technology.

## 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
<b>Low Pressure</b>	500.1/Procedure I	500.2/Procedure I, II	500.3/Procedure I, II	500.4/Procedure I, II	500.5/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	501.5/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	502.5/Procedure I, II
<b>Temperature Shock</b>	503.1/Procedure I	503.2/Procedure I	503.3/Procedure I	503.4/Procedure I, II	503.5/Procedure I
<b>Solar Radiation</b>	505.1/Procedure I	505.2/Procedure I	505.3/Procedure I	505.4/Procedure I	505.5/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	506.5/Procedure I, III
<b>Humidity</b>	507.1/Procedure I, II	507.2/Procedure II, III	507.3/Procedure II, III	507.4	507.5/Procedure II
<b>Salt Fog</b>	509.1/Procedure I	509.2/Procedure I	509.3/Procedure I	509.4	509.5
<b>Dust</b>	510.1/Procedure I	510.2/Procedure I	510.3/Procedure I	510.4/Procedure I, III	510.5/Procedure I
<b>Vibration</b>	514.2/Procedure VIII, X	514.3/Procedure I	514.4/Procedure I	514.5/Procedure I	514.6/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	516.6/Procedure I, IV
<b>Immersion (Optional)</b>	-	-	-	512.4/Procedure I	512.5/Procedure I
<b>International Protection Standard</b>					
<b>Dust &amp; Water Protection</b>	IP54/55, IP67 (Optional)				



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