

● 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 Input¹
- Transparent Data Mode¹
- 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 Messaging¹
- Remote Stun/Kill¹
- Remote Check¹
- Short & Long Data Messages¹
- GPS Location with Voice¹
- 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 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 NETWORKS 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)

● 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 Messages¹

● 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



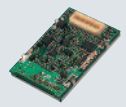
- **KSC-326**
Rapid Rate Six Unit Charger for Ni-Cd/Ni-MH/Li-Ion
- **KMC-41M**
MIL-STD & IP 54/55 Speaker Microphone
- **KMC-51/52**
DSP Digital Noise-Canceling Speaker Microphone
- **KHS-11**
Heavy Duty Earphone



- **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.

GENERAL		NX-200	NX-300
Frequency Range	Type 1 Type 2	136-174 MHz	450-520 MHz 400-470 MHz
Number of Channels		512	512
Zones		128	128
Max. Channels per Zone		250	250
Channel Spacing	Analog Digital	12.5 / 15 / 25 / 30 kHz	12.5 / 25 kHz 6.25 / 12.5 kHz
Operating Voltage		7.5V DC ± 20%	
Battery Life (with KNB-48L)	5-5-90 10-10-80	Approx. 14.5 hours Approx. 9.0 hours	
Operating Temperature Range		-22° F to +140° F (-30° C to +60° C)	
Frequency Stability		± 2.0 ppm	± 1.0 ppm
Antenna Impedance		50 Ω	
Dimensions (W x H x D)	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)	
Weight (net)	Radio only with KNB-47L with KNB-48L	8.82 oz (250 g) 13.23 oz (375 g) 14.29 oz (405 g)	
FCC ID	Type 1 Type 2	ALH378400	ALH378500 ALH378501
IC Certification	Type 1 Type 2	282D-378400	282D-378500 282D-378501

RECEIVER		All Models
Sensitivity	Digital @ 6.25kHz (3% BER) Digital @ 12.5kHz (3% BER) Analog (12 dB SINAD)	0.20 µV 0.25 µV 0.25 µV
Selectivity	Analog @ 25 kHz Analog @ 12.5 kHz	72 dB 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
TRANSMITTER		
RF Power Output		5 W / 1 W
Spurious Response		70 dB
FM Hum & Noise	Analog @ 25 kHz Analog @ 12.5 kHz	45 dB 40 dB
Audio Distortion		Less than 3%
Modulation		16K0F3E, 11K0F3E, 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

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:
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)

*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
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 (Optional)				



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