

● 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 | 9.17 oz (260 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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