

● GENERAL FEATURES

- 5 W (136-174 MHz) Models
- 5 W (400-470, 450-520 MHz) Models
- 260 CH-GID / 128 Zones
- 64 CH-GID / 4 Zones (Non Display Version)
- 12-Key Keypad Models
- 8 Character Alphanumeric Aliases
- Backlit LCD & Keys
- Function/Status LCD Icons
- Transmit/Busy/Call Alert/Warn LED
- On/Off Volume Knob
- 16-Position Mechanical Selector
- 4 Front PF Keys
- 3 Side PF Keys
- Emergency/AUX Key
- Built-in Motion Sensor
- 500 mW Speaker Audio
- Zone/CH# Voice Announcement
- KMC-48GPS Speaker Mic Option
- KPG-141D Windows® FPU
- Flash Firmware Upgrading
- MIL-STD-810 C/D/E/F/G
- IP54/55 Water & Dust 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 Messaging^{1,2}
- 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 Call³
- Mixed FM/Digital Operation
- Conventional IP Networks
- Site Roaming

● DIGITAL – TRUNKING MODE

- Individual Private Call
- Group Call & Broadcast Call
- Telephone Interconnect
- Transmission Trunked Mode⁴
- Message Trunked Mode⁴
- Call Queuing with Priority⁴
- Late Entry (UID & GID)⁴
- 4 Priority Monitor ID's⁴
- 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 Networks⁵
- UID Lists for each network

● SCAN

- Single Zone / Multi-Zone / List Scan
- Single Priority Scan (Conventional)

● ANALOG MODES – GENERAL

- 12.5 & 25 kHz Channels
- Conventional & LTR® or MPT Zones
- FleetSync®/II, MDC-1200, DTMF³
- QT/DQT Two-Tone (Conventional Zones Only)³
- Voice Inversion Scrambler (16 Codes)

● MPT ZONES*

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

● FleetSync®/II

- PTT ID ANI / Caller ID³
- Selective / Group Call³
- Emergency, Status & Text Messages¹

● MDC-1200

- PTT ID ANI / Caller ID³
- Emergency, Radio Check & Inhibit

* Optional feature



Three Models Available:
 Basic Unit: No LCD, No Front Keys
 8-Character LCD, 4 PF Keys
 8-Character LCD, 4 PF Keys, 12-Key DTMF Keypad
 (Not Actual Size)

Options

■ KNB-55L

Li-ion Battery Pack
(1,480mAh)

■ KNB-56N

Ni-MH Battery Pack
(1,400mAh)

■ KNB-57L

Li-ion Battery Pack
(2,000mAh)

■ KBP-5

Battery Case

■ KSC-25

Rapid Charger

■ KSC-30

Regular Charger
for KNB-56N

■ KSC-256K

Six Unit Gang Charger



KNB-55L



KSC-25



■ KRA-22

VHF Low Profile
Helical Antenna

■ KRA-23

UHF Low Profile
Helical Antenna

■ KRA-26

VHF Helical Antenna

■ KRA-27

UHF Whip Antenna

■ KMC-45

Speaker Microphone



■ KMC-48GPS

GPS Speaker
Microphone

■ KEP-2

Earphone Kit for
KMC-45 (2.5mm plug)

■ KHS-22

Head Set

■ KVC-3

Regular Rate Vehicular
Charger Adapter
(for KSC-30)

■ KVC-4

Rapid Rate Vehicular
Charger Adapter
(for KSC-25)



KVC-3

■ KHS-7A

Lightweight Single
Muff Headset

■ KHS-8BL

2-wire Palm Mic with
Earphone (Black)

■ KHS-9BL

3-wire Lapel Mic
with Earphone (Black)

■ KLH-179

Leather Case

■ KLH-180

Nylon Case

■ KBH-12

Belt Clip



KLH-179

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-220	NX-320
GENERAL			
Frequency Range	Type 1 Type 2	136-174 MHz	450-520 MHz 400-470 MHz
Number of Channels	w/LCD Model	260	
	w/o LCD Model	64	
Zones	w/LCD Model	128	
	w/o LCD Model	4	
Max. Channels per Zone	w/LCD Model	250	
	w/o LCD Model	16	
Channel Spacing	Analog Digital	12.5 / 15 / 25* / 30* kHz 6.25 / 12.5 kHz	12.5 / 25* kHz 6.25 / 12.5 kHz
Operating Voltage		7.5V DC ± 20%	
Battery Life 5-5-90	KNB-55L (1480)	Approx. 8.5 hours	
	KNB-56N (1400)	Approx. 8.5 hours	
	KNB-57L (2000)	Approx. 11.5 hours	
		Approx. 11.5 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	with KNB-55L	2.20 x 4.35 x 1.48 in (56 x 110.5 x 37.5 mm)	
	with KNB-56N	2.20 x 4.35 x 1.70 in (56 x 110.5 x 43.2 mm)	
	with KNB-57L	2.20 x 4.35 x 1.55 in (56 x 110.5 x 39.5 mm)	
Weight (net)	with KNB-55L	10.76 oz (305 g)	
	with KNB-56N	14.29 oz (405 g)	
	with KNB-57L	11.64 oz (330 g)	
		11.64 oz (330 g)	
FCC ID	Type 1 Type 2	ALH430900 ALH431000	ALH431000 ALH431001
IC Certification	Type 1 Type 2	282D-430900 282D-431001	282D-431001

		NX-220	NX-320
RECEIVER			
Sensitivity	Digital @ 6.25 kHz (3% BER)	0.20 μV	
	Digital @ 12.5 kHz (3% BER)	0.25 μV	
	Analog (12 dB SINAD)	0.25 μV	
Selectivity	Analog @ 25 kHz	72 dB	
	Analog @ 12.5 kHz	65 dB	
Intermodulation Distortion	Analog	70 dB	
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	45 dB	
	Analog @ 12.5 kHz	40 dB	
Audio Distortion		Less than 3%	
Modulation		16K0F3E, * 11K0F3E, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D	

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

* 25 kHz is not for sale in the USA and the US territories.
** Operating temp. range of the KNB-55L/57L: -10°C to +60°C

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 Non Display Model- Pre-programmed key operation.
3 S Version- LCD dependent and some key-based functions not available.
4 These trunked features are primarily system programming and operational dependent. Priority Monitor also requires NX subscriber settings.
5 Up to 8 different Trunked networks can be configured per radio (each in a zone)

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
International Protection Standard					
Dust & Water Protection	IP54/55				

*To meet MIL810 and IP grade, the 2-pin connector has to be connected.

KENWOOD

JVCKENWOOD USA Corporation
Communications Sector Headquarters
3970 Johns Creek Court, Suite 100, Suwanee, GA 30024-1265

Order Administration/Distribution
P.O. BOX 22745, 2201 East Dominguez St., Long Beach, CA 90801-5745
www.kenwood.com/usa

JVCKENWOOD Canada Inc.
Canadian Headquarters and Distribution
6070 Kestrel Road, Mississauga, Ontario, Canada L5T 1S8
www.kenwood.ca



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