

● 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)



KNB 55L

■ KBP-5

Battery Case

■ KSC-25

Rapid Charger

■ KSC-30

Regular Charger for KNB-56N

■ KSC-256K

Six Unit Gang Charger



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

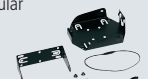
Head Set

■ 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



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)	
FCC ID	Type 1	ALH430900	ALH431000
	Type 2		ALH431001
IC Certification	Type 1	282D-430900	
	Type 2		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.

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Professional Systems Business Group
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ADS#25813 Printed in USA