

#### ● 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 Input<sup>1</sup>
- Transparent Data Mode<sup>1</sup>

#### ● 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>1,2</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

#### ● DIGITAL – CONVENTIONAL MODE

- 64 Radio Access Numbers (RAN)
- Individual & Group Selective Call<sup>3</sup>
- 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>4</sup>
- Message Trunked Mode<sup>4</sup>
- Call Queuing with Priority<sup>4</sup>
- Late Entry (UID & GID)<sup>4</sup>
- 4 Priority Monitor ID's<sup>4</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

#### ● SCAN

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

#### ● ANALOG MODES – GENERAL

- 12.5 & 25\* kHz Channels
- Conventional & LTR® Zones
- FleetSync®/II, MDC-1200, DTMF<sup>3</sup>
- QT/DQT/Two-Tone (Conventional Zones Only)<sup>3</sup>
- Voice Inversion Scrambler (16 Codes)

#### ● FleetSync®/II

- PTT ID ANI / Caller ID<sup>3</sup>
- Selective / Group Call<sup>3</sup>
- Emergency, Status & Text Messages<sup>1</sup>

#### ● MDC-1200

- PTT ID ANI / Caller ID<sup>3</sup>
- Emergency, Radio Check & Inhibit



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:PF Keypad  
 (Not Actual Size)

# Options

## ■ KNB-55L

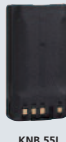
Li-ion Battery Pack (1,480mAh)

## ■ 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-25

## ■ KSC-256K

Six Unit Gang Charger



## ■ 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
<b>GENERAL</b>			
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	ALH430900	ALH431000
	Type 2		ALH431001
IC Certification	Type 1	282D-430900	
	Type 2		282D-431001

		NX-220	NX-320
<b>RECEIVER</b>			
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	
<b>TRANSMITTER</b>			
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. Kenwood reserves the right to change specifications without prior notice or obligation.  
\* 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

footnotes from Front:  
1 Requires NX subscriber unit PC Serial Interface compatible software application (e.g Kenwood AVL & Dispatch Messaging software) or hardware (e.g. console).  
2 Non Display Model- Pre-programmed key operation.  
3 Non Display Model- Some screen/key-based functions are not available.  
4 These trunked features are primarily system programming and operational dependent. Priority Monitor also requires NX subscriber settings.

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

# 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
	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>International Protection Standard</b>					
Dust & Water Protection	IP54/55				

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

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