



#### ● GENERAL FEATURES

- 3.0 W (806 - 870 MHz)
- 260 CH-GID / 128 Zones
- 4 Front PF Keys, 12-Key Keypad
- 8 Character Alphanumeric Aliases
- Backlit LCD & Keys
- Function / Status LCD Icons
- Transmit / Busy / Call Alert / Warn LED
- On / Off Volume Knob
- 16-Position Selector
- 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-141 D/DN Windows® FPU
- Flash Firmware Upgrading
- MIL-STD-810 C/D/E/F/G
- IP54/55 Dust & Water 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</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
- 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>2</sup>
- Message Trunked Mode<sup>2</sup>
- Call Queuing with Priority<sup>2</sup>
- Late Entry (UID & GID)<sup>2</sup>
- 4 Priority Monitor ID's<sup>2</sup>
- Remote Re-Grouping<sup>1</sup>
- 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 Networks<sup>3</sup>
- UID Lists for each network

#### ● SCAN

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

#### ● ANALOG MODES – GENERAL

- 12.5 & 25 kHz Channels
- NPSPAC Channels
- Conventional & LTR® or MPT Zones
- FleetSync®/II, MDC-1200, DTMF<sup>2</sup>
- QT/DQT Two-Tone (Conventional Zones Only)<sup>2</sup>
- 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 ID<sup>2</sup>
- Selective / Group Call<sup>2</sup>
- Emergency, Status & Text Messages<sup>1</sup>

#### ● MDC-1200

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

\* Optional feature

## 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-25/30

Rapid Charger Single Unit Charger



### ■ KSC-256K

Six Unit Gang Charger



### ■ KRA-38

800/900 MHz Whip Antenna

### ■ KMC-21

Speaker Microphone

### ■ KMC-45

Speaker Microphone

### ■ KMC-48GPS

GPS Speaker Microphone

### ■ KVC-3/4

Vehicular Charger Adapter

### ■ KHS-7A

Lightweight Single Muff Headset



### ■ KHS-8BL

2-wire Palm Mic with Earphone (Black)

### ■ KHS-9BL

3-wire Lapel Mic with Earphone (Black)

### ■ KHS-22

Headset w/Boom Mic & PTT

### ■ KHS-23

2-Wire Cell Style/PTT Palm Mic

### ■ KHS-25

2-Wire Cell Style/PTT Palm Mic



### ■ KHS-26

Clip Mic w/Earphone

### ■ KHS-27

D-Ring Eahanger w/PTT & Mic

### ■ KLH-179

Heavy Duty 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-420
<b>GENERAL</b>		
Frequency Range	Receive Transmit	851 - 870 MHz 806 - 825, 851 - 870 MHz
Number of Channels		260
Zones		128
Max. Channels per Zone		250
Channel Spacing	Analog Digital	12.5 / 25 kHz 6.25 / 12.5 kHz
Operating Voltage		7.5V DC ± 20%
Battery Life 5-5-90	KNB-55L (1480) KNB-56N (1400) KNB-57L (2000)	Approx. 8.5 hours Approx. 8.5 hours Approx. 11.5 hours
Operating Temperature Range		-22° F to +140° F (-30° C to +60° C)
Frequency Stability		± 1.0 ppm
Antenna Impedance		50 Ω
Dimensions (W x H x D)	Radio Only with KNB-55L with KNB-56N with KNB-57L	2.2" x 4.35" x 1.45" (56.0 x 110.5 x 36.9 mm) 2.2" x 4.35" x 1.48" (56.0 x 110.5 x 37.5 mm) 2.2" x 4.35" x 1.7" (56.0 x 110.5 x 43.2 mm) 2.2" x 4.35" x 1.56" (56.0 x 110.5 x 39.5 mm)
Projections not included		
Weight (net)	Radio Only with KNB-55L with KNB-56N with KNB-57L	7.4 oz (210 g) 10.8 oz (305 g) 14.3 oz (405 g) 11.6 oz (330 g)
FCC ID		ALH458200
IC Certification		282D-458200

		NX-420
<b>RECEIVER</b>		
Sensitivity	Digital @ 6.25 kHz (3% BER) Digital @ 12.5 kHz (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
Spurious Response	Analog	70 dB
Audio Distortion		Less than 3%
Audio Output		500 mW / 8 Ω
<b>TRANSMITTER</b>		
RF Power Output		3 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		6K0F3E, 14K0F3E, 11K0F3E, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D

\* Operating temperature range of the KNB-55L/57L: +14°F to +140°F (-10°C to +60°C)

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

Footnotes from front:

<sup>1</sup> Requires compatible PC software application (e.g. KAS-10) or console

<sup>2</sup> These trunked features are primarily system programming and operational dependent. Priority Monitor also requires NX subscriber settings.

<sup>3</sup> Up to 8 different trunked networks can be configured per radio (each in a zone)

FleetSync® is a registered trademark of JVCENWOOD Corporation.  
LTR® is a registered trademark of Transcrypt 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 JVCENWOOD Corporation and Icom Inc.  
NEXEDGE® is a registered trademark of JVCENWOOD 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 I, 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
<b>International Protection Standard</b>					
Dust & Water Protection	IP54/55				

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

# KENWOOD

AUTHORIZED DEALER

LINKWELL TELECOM SERVICES.

1/4, Puranik Building, Near Old Post Office,  
Panvel, Navi Mumbai, Maharashtra, India-410 206.

Tel. No. : 022-27462199.

[www.linkwelltelecom.com](http://www.linkwelltelecom.com)



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JVCENWOOD Corporation

ADS#07215 Printed in USA