

KENWOOD

NEXEDGE®

NX-420

NEXEDGE® 800MHz Digital & Analog Portable Radio

NXDN®

FleetSync®
by KENWOOD



● 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-141D/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*¹
- Transparent Data Mode*¹

● 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
- Remote Stun / Kill*¹
- Remote Check*¹
- Short & Long Data Messages*¹
- GPS Location with Voice*¹
- 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*²
- Message Trunked Mode*²
- Call Queuing with Priority*²
- Late Entry (UID & GID)*²
- 4 Priority Monitor ID's*²
- Remote Re-Grouping*¹
- Failsoft Mode

● MULTI-SITE IP NETWORK 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

- 25 & 12.5 kHz Channels
- NPSPAC Channels
- Conventional & LTR® Zones
- FleetSync® / II, MDC-1200, DTMF
- QT / DQT (Conventional Zones only)
- Voice Inversion Scrambler (16 Codes)

● FleetSync® / II

- PTT ID ANI / Caller ID
- Selective / Group Call
- Emergency, Status & Text Messages*¹

● MDC-1200

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

*¹ Requires compatible software application (e.g. KAS-10) or console hardware.

*² These trunked features are primarily system programming and operational dependent. Priority Monitor also requires NX subscriber settings.

Options

■ KNB-55L

Li-Ion Battery
(1480mAh)



■ KNB-56N

Ni-MH Battery
(1400mAh)

■ KNB-57L

Li-Ion Battery
(2000mAh)



■ KBP-5

6 AA Alkaline
Battery Case



■ KSC-25/30

Rapid/Regular
Single Unit Charger



■ KSC-256

Rapid Rate 6-Unit
Charger



■ KMC-45

Speaker
Microphone



■ KMC-21

Speaker
Microphone



■ KMC-48GPS

GPS Speaker
Microphone

KMC-48GPS



■ KVC-3/4

Vehicular Charger
Adapter



■ KRA-38

800/900 MHz Whip
Antenna



■ KHS-7A

Lightweight Single
Muff Headset
w/Boom Mic. &
In-line PTT



■ KHS-8BL

2-wire Palm Mic.
w/Earphone



■ KHS-9BL

3-wire Palm Mic.
w/Earphone



■ KHS-22

Headset w/Boom Mic.
& PTT



■ KHS-23

2-wire Cell-style/
PTT Palm Mic.



■ KHS-25

Headset w/D-ring
Ear Hanger



■ KHS-26

Clip Mic.
w/Earphone



■ KHS-27

D-ring Earhanger
w/PTT & Mic.



■ KBH-12

Belt Clip



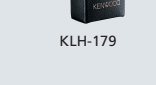
■ KLH-179

Heavy Duty
Leather Case



■ KLH-180

Nylon Case



All accessories and options may not be available in all markets.
Contact our authorized dealer for details and complete list of all accessories and options.

Main Specifications

		NX-420
GENERAL		
Frequency Range	Receive Transmit	851 - 870 MHz 806 - 825, 851 - 870 MHz
Number of Channels		260 ch
Zones		128 zone
Max. Channels per Zone		250 ch
Channel Spacing	Analog Digital	12.5 / 25 kHz 6.25 / 12.5 kHz
Operating Voltage		7.5 V DC $\pm$ 20%
Battery Life (5-90)	KNB-55L (1480 mAh) KNB-56N (1400 mAh) KNB-57L (2000 mAh)	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		$\pm$ 1.0 ppm
Antenna Impedance		50 Ω
Dimensions (W x H x D) Projections not included	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)
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
RECEIVER		
Sensitivity	Digital @ 6.25 kHz (3% BER) Digital @ 12.5 kHz (3% BER) Analog (12 dB SINAD)	0.20 μ V 0.25 μ V 0.25 μ V
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
TRANSMITTER		
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		16K0F3E, 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 TIA/EIA 603 and specifications shown are typical.
Specifications are subject to change without notice, due to advancements in technology.

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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.
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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 MIL-810 and IP grade, the 2-pin connector has to be connected.

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