

KENWOOD

NEXEDGE®

NX-420 K3

NEXEDGE® 800MHz Digital & Analog Portable Radio

NXDN®

FleetSync®



GENERAL FEATURES

- Transparent Data Mode
- 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

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



KVC-3

- **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.



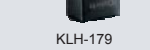
- **KBH-12**
Belt Clip



- **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 K3			
GENERAL			
Frequency Range	Receive Transmit	865 - 867 MHz 865 - 867 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 (5-5-90)	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 K3			
RECEIVER			
Sensitivity	Digital @ 6.25 kHz (3% BER)		0.20 μ V
	Digital @ 12.5 kHz (3% BER)		0.25 μ V
	Analog (12 dB SINAD)		0.25 μ V
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			1W / 4W (ERP)
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, 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.

FleetSync® is a registered trademark of JVCKENWOOD 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.
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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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