KENWOOD

NEXEDGE®

NX-220/320

NEXEDGE® VHF/UHF Digital & FM Portable Radios

NXDN® FleetSync® by KENWOOD

GENERAL FEATURES

- 5 W (136-174 MHz) Models
- 5 W (400-470, 450-520 MHz) Models
- 260 CH-GID / 128 Zones (LCD Models)
- 64 CH-GID / 4 Zones (Non LCD Models)
- 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 (LCD Models)
- 3 Side PF Keys
- Emergency / AUX Key
- Built-in Motion Sensor
- 500 mW Speaker Audio
- Zone / CH Number 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*[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] *[2]
- 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*[3]
- Mixed FM / Digital Operation
- Conventional IP Networks
- Site Roaming

DIGITAL – TRUNKING MODE

- Individual Private Call
- Group Call & Broadcast Call
- Telephone Interconnect
- Transmission Trunked Mode*[4]
- Message Trunked Mode*[4]
- Call Queuing with Priority*[4]
- Late Entry (UID & GID)*[4]
- 4 Priority Monitor ID's*[4]
- Remote Group Add*[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)

FM MODES – GENERAL

- 25 & 12.5 kHz Channels
- Conventional & LTR® Zones
- FleetSync® / II, MDC-1200, DTMF*[3]
- QT / DQT & 2-Tone (Conventional Zones only)*[3]
- Voice Inversion Scrambler (16 Codes)

FleetSync® / II (FM)

- PTT ID ANI / Caller ID*[3]
- Selective / Group Call*[3]
- Emergency, Status & Text Messages*[1]

MDC-1200

- PTT ID ANI / Caller ID*[3]
- Emergency, Radio Check & Inhibit

*[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 LCD Models -Pre-programmed key operation

*[3] Non LCD Models -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.

● Options

- **KNB-55L**
  Li-Ion Battery
  (1480mAh)

- **KNB-56N**
  Ni-MH Battery
  (1400mAh)

  KNB-55L

- **KNB-57L**
  Li-Ion Battery
  (2000mAh)

- **KBP-5**
  6 AA Alkaline
  Battery Case

- **KSC-25**
  Rapid Charger

  KSC-25

- **KSC-30**
  Regular Charger
  for Ni-MH Batteries

- **KSC-256**
  Rapid Rate 6-Unit
  Charger

- **KMC-45**
  Speaker Microphone

- **KMC-21**
  Speaker Microphone

  KMC-45

- **KMC-48GPS**
  GPS Speaker
  Microphone

- **KMB-30**
  Wall Mount Bracket
  for KSC-256

- **KRA-22/23**
  VHF/UHF Helical
  Antenna

- **KRA-26/27**
  VHF Helical/
  UHF Whip Antenna

- **KEP-2**
  2.5mm Earphone
  Kit for KMC-45

- **KHS-7/7A**
  Single Muff Headset

- **KHS-8BE/BL**
  2-wire Palm Mic.
  w/Earphone

  KHS-7/7A

- **KHS-9BE/BL**
  3-wire Palm Mic.
  w/Earphone

- **KHS-21**
  Headset w/Boom Mic.
  & PTT

  KHS-21

- **KHS-26**
  Clip Mic. w/Earphone

- **KHS-27**
  D-ring Earhanger
  w/PTT & Mic.

- **KBH-12**
  Belt clip

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

GENERAL		NX-220	NX-320
Frequency Range	Type 1	136-174 MHz	450-520 MHz
	Type 2		400-470 MHz
Number of Channels	LCD models	260 ch	
	Non LCD models	64 ch	
Zones	LCD models	128 zone	
	Non LCD models	4 zone	
Max. Channels per Zone	LCD models	250 ch	
	Non LCD models	16 ch	
Channel Spacing	Analog	12.5 / 15 / 25 / 30 kHz	12.5 / 25 kHz
	Digital	6.25 / 12.5 kHz	6.25 / 12.5 kHz
Operating Voltage		7.5 V DC ± 20%	
Battery Life (5-5-90)	KNB-55L (1480 mAh)	Approx. 8.5 hours	
	KNB-56N (1400 mAh)	Approx. 8.5 hours	
	KNB-57L (2000 mAh)	Approx. 11.5 hours	
Operating Temperature Range		-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	LCD models	56.0 x 110.5 x 36.9 mm (radio only) 56.0 x 110.5 x 37.5 mm (with KNB-55L) 56.0 x 110.5 x 39.5 mm (with KNB-57L)	
	Non LCD models	56.0 x 110.5 x 37.5 mm (radio only) 56.0 x 110.5 x 38.1 mm (with KNB-55L) 56.0 x 110.5 x 40.1 mm (with KNB-57L)	
Weight (net)	LCD models	210 g (radio only) 305 g (with KNB-55L) 330 g (with KNB-57L)	
	Non LCD models	205 g (radio only) 300 g (with KNB-55L) 325 g (with KNB-57L)	

RECEIVER		NX-220	NX-320
Sensitivity	Digital @ 6.25kHz (3% BER)	0.20 µV	
	Digital @ 12.5kHz (3% BER)	0.25 µV	
	Analog (12dB 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.

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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.

ISO9001 Registered
Communications Equipment Division
Professional Systems Business Group
JVC KENWOOD Corporation

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