NEXEDGE NX-220/320 By KENWOOD
Listen to the Future

NEXEDGE® VHF/UHF Digital & FM Portable Radios

NXDN™ FleetSync®
by KENWOOD

Standard
(NX-320 K4)

Full Display
(NX-320 K6)

General Features

* 136-174, 400-470 MHz Models
* 5 W RF Output Power
* 260 Channel / Group ID with 128 Zones (LCD Models)
* 64 Channel / Group ID with 4 Zones (Non LCD Models)
* 12-Key Keypad Models Available
* Emergency/AUX Key
* 8 Character Alphanumeric Aliases Display
* Backlit LCD with Backlit Keys
* Built-in Motion Sensor
* Zone / Channel Number Voice Announcement
* 500 mW Speaker Audio
* VOX (Voice Operating) Ready
* Flash Firmware Upgrading
* MIL-STD-810 C/D/E/F/G
* MIL-Spec Speaker Mic Options Available
* IP54/55 Water & Dust Intrusion
* Man-Down Alert
* Lone Worker
* Low Battery Alert
* 2 Side PF Keys + Orange Key
* Battery Save
* Special Alert Tone Patterns

For Digital

* NXDN® Digital Air Interface
* AMBE+2™ VOCODER
* 6.25 & 12.5 kHz Channels
* NXDN® Scrambler Included
* Over-the-Air Alias
* Over-the-Air Programming

* Digital Conventional Mode
* Digital Trunking Mode
* Mixed FM/Digital Operation (Conventional)
* Multi-Site IP Network Compatible
* Conventional IP Network Compatible
* Telephone Interconnect (Trunking)

For Analog

* 25, 20*2 & 12.5 kHz Channels
* FleetSync®/II, MDC-1200
* QT / DQT / DTMF*3

* 2-tone / 5-tone*2 Encode / Decode*3
* Voice Inversion Scrambler (16 Codes)
* Kenwood LTR® Features

*2: Available for models applicable ETSI EN Standards.
*3: Some screen/key-based functions are not available in Non LCD Models

MDC-1200 Signalling

* PTT ID Digital ANI
* Caller ID Display
* Emergency Status

* Radio Check
* Radio Inhibit

Accessories

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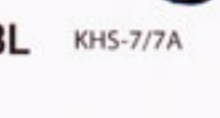 2.5mm Earphone
  Kit for KMC-45

- **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 an authorized Kenwood dealer for details and complete list of all accessories and options.

Specification

GENERAL		NX-220	NX-320 K4 & K6
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 K4 & K6
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.
Kenwood reserves the right to change specifications without prior notice or obligation.

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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.
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	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.

Listen to the Future

Kenwood has always connected with people through sound. Now we want to expand the world of sound in ways that only Kenwood can, listening to our customers and to the pulse of the coming age as we head toward a future of shared discovery, inspiration and enjoyment.

ISO 9001
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