KENWOOD

NEXEDGE®

NX-220/320

NEXEDGE® VHF/UHF Digital & Analog 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
- 64 CH-GID / 4 Zones (Non Display Version)
- 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
- 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 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 NETWORKS 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

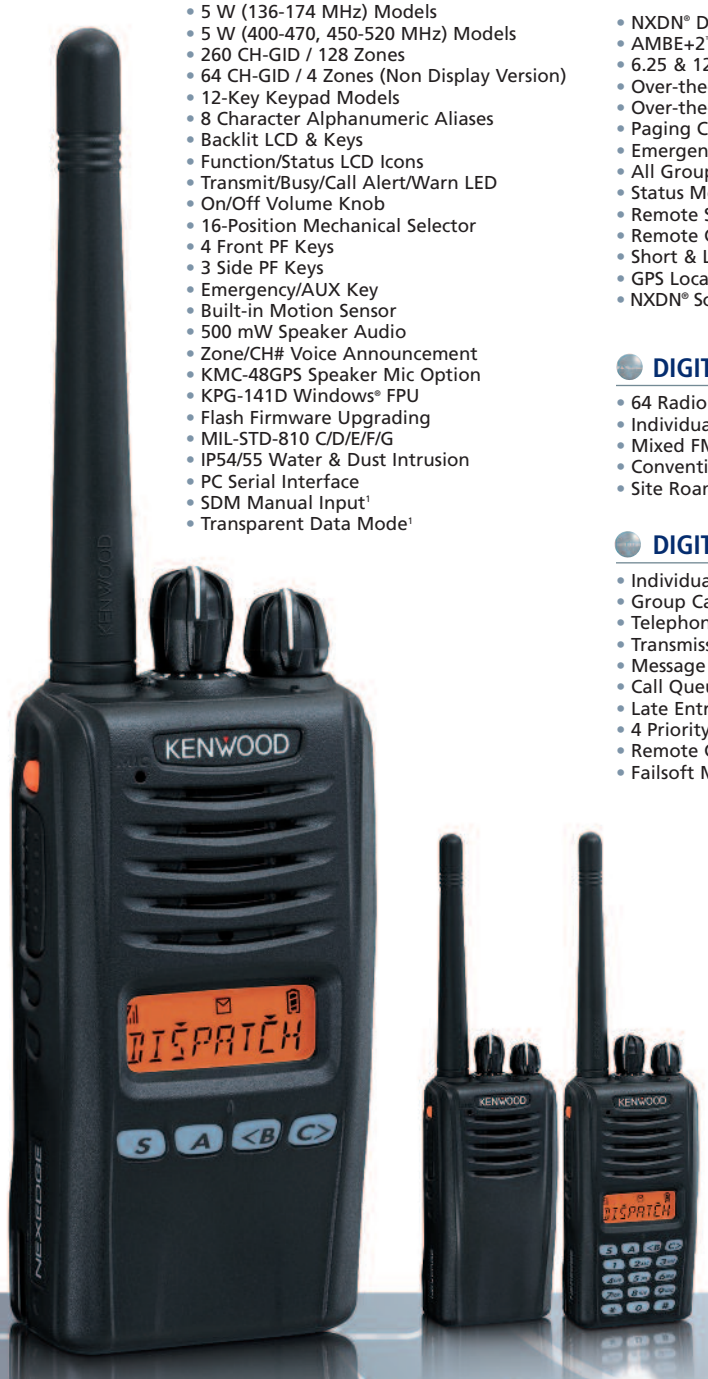
- 12.5 & 25* kHz Channels
- Conventional & LTR® Zones
- FleetSync®/II, MDC-1200, DTMF[3]
- QT/DQT/Two-Tone (Conventional Zones Only)[3]
- Voice Inversion Scrambler (16 Codes)

FleetSync®/II

- 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



Three Models Available:
Basic Unit: No LCD, No Front Keys
8-Character LCD, 4 PF Keys
8-Character LCD, 4 PF Keys, 12-Key DTMF.PF Keypad
(Not Actual Size)

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)


KNB 55L

- **KBP-5** Battery Case
- **KSC-25** Rapid Charger
- **KSC-30** Regular Charger for KNB-56N
- **KSC-256K** Six Unit Gang Charger


KSC-25

- **KRA-22** VHF Low Profile Helical Antenna
- **KRA-23** UHF Low Profile Helical Antenna
- **KRA-26** VHF Helical Antenna
- **KRA-27** UHF Whip Antenna
- **KMC-45** Speaker Microphone

- **KMC-48GPS** GPS Speaker Microphone
- **KEP-2** Earphone Kit for KMC-45 (2.5mm plug)
- **KHS-22** Head Set
- **KVC-3** Regular Rate Vehicular Charger Adapter (for KSC-30)
- **KVC-4** Rapid Rate Vehicular Charger Adapter (for KSC-25)


KVC-3

- **KHS-7A** Lightweight Single Muff Headset
- **KHS-8BL** 2-wire Palm Mic with Earphone (Black)
- **KHS-9BL** 3-wire Lapel Mic with Earphone (Black)
- **KLH-179** Leather Case
- **KLH-180** Nylon Case
- **KBH-12** Belt Clip


KLH-179

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-220	NX-320
GENERAL			
Frequency Range	**Type 1**	136-174 MHz	450-520 MHz
	Type 2		400-470 MHz
Number of Channels	**w/LCD Model**	260	
	w/o LCD Model	64	
Zones	**w/LCD Model**	128	
	w/o LCD Model	4	
Max. Channels per Zone	**w/LCD Model**	250	
	w/o LCD Model	16	
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		7.5V DC ± 20%	
Battery Life 5-5-90	**KNB-55L (1480)**	Approx.8.5 hours	
	KNB-56N (1400)	Approx.8.5 hours	
	KNB-57L (2000)	Approx. 11.5 hours	
Operating Temperature Range**		-22˚ F to +140˚ F (-30˚ C to +60˚ C)	
Frequency Stability		± 2.0 ppm	± 1.0 ppm
Antenna Impedance		50 Ω	
Dimensions (W x H x D)	**with KNB-55L**	2.20 x 4.35 x 1.48 in (56 x 110.5 x 37.5 mm)	
Projections not included	**with KNB-56N**	2.20 x 4.35 x 1.70 in (56 x 110.5 x 43.2 mm)	
	with KNB-57L	2.20 x 4.35 x 1.55 in (56 x 110.5x 39.5 mm)	
Weight (net)	**with KNB-55L**	10.76 oz (305 g)	
	with KNB-56N	14.29 oz (405 g)	
	with KNB-57L	11.64 oz (330 g)	
FCC ID	Type 1	ALH430900	ALH431000
	Type 2		ALH431001
IC Certification	Type 1	282D-430900	
	Type 2		282D-431001

		NX-220	NX-320
RECEIVER			
Sensitivity	**Digital @ 6.25 kHz (3% BER)**	0.20 µV	
	Digital @ 12.5 kHz (3% BER)	0.25 µV	
	Analog (12 dB 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.
* 25 kHz is not for sale in the USA and the US territories.
** Operating temp. range of the KNB-55L/57L : -10°C to +60°C

footnotes from Front:
[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 Display Model- Pre-programmed key operation.
[3] Non Display Model- 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.

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

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