KENWOOD

NEXEDGE®

NX-200/300

NEXEDGE® VHF/UHF Digital & FM Portable Radios

NXDN® FleetSync® by KENWOOD 5-tone

GENERAL FEATURES

- 5 W (136-174 MHz) Models
- 5 W (400-470 MHz) Models
- Meets ETSI EN Standards
- 512 CH-GID / 128 Zones
- 12-Key Keypad Models
- 14 Character Alphanumeric Aliases
- Backlit Dot Matrix LCD
- Function/Status LCD Icons
- Date & 12/24 Hour Time Clock
- Transmit/Busy/Call Alert/Warn LED
- On/Off Volume Knob
- 16-Position Mechanical Selector
- 6 Front PF & Menu Keys
- 2 Side PF Keys
- Emergency/AUX Key
- 500 mW Speaker Audio
- Emergency Call Features
- Lone Worker
- Multi-Language Display
- KMC-47GPS Speaker Mic Option
- KPG-111D Windows® FPU
- Flash Firmware Upgrading
- MIL-STD-810 C/D/E/F/G
- IP54/55/67 Water & Dust Intrusion
- PC Serial Interface
- SDM Manual Input*1
- Transparent Data Mode*1
- VGS-1 Voice Guide / Voice & GPS Data Storage Option

DIGITAL – GENERAL

- NXDN® Digital Air Interface
- AMBE+2™ VOCODER
- 6.25 & 12.5 kHz Channels
- Over-the-Air Alias
- Over-the-Air Programming*2
- 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
- AES / DES Encryption Options

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*3
- Transmission Trunked Mode*3
- Message Trunked Mode*3
- Call Queuing with Priority*3
- Late Entry (UID & GID)*3
- 4 Priority Monitor ID's*3
- 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 / Multi-Zone Scan / List Scan
- Dual Priority Scan (Conventional)

FM MODES – GENERAL

- 25, 20 & 12.5 kHz Channels
- FleetSync®/II
- DTMF Encode / Decode
- Voice Inversion Scrambler
- Analogue Scrambler Board Capability

FM CONVENTIONAL ZONES

- QT / DQT / Two-Tone
- 5-Tone Encode / Decode
- Call Keys 1-6
- Operator Selectable Tone
- Voting

FM LTR® TRUNKED ZONES

- Kenwood LTR® Features

FleetSync®/II (FM)

- PTT ID Digital ANI
- Selective Call & Group Call
- Status Messaging*1
- Emergency Status
- Caller ID Display
- Short Text Messages*1

MDC-1200

- PTT ID Digital ANI
- Caller ID Display
- Emergency Status
- Radio Check
- Radio 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 Requires Kenwood OTAP Management software

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

Options

- **KNB-47L** Li-Ion Battery (1950mAh)
- **KNB-48L** Li-Ion Battery (2550mAh)
- **KBP-7** Battery Case
- **KSC-32** Tri-Chemistry Rapid Rate Charger
- **KSC-326** Multiple Charger
- **KMC-41** Heavy Duty Speaker Microphone with Noise-cancelling
- **KMC-42W** IP67 Heavy Duty Speaker Microphone with Noise-cancelling
- **KMC-47GPS** GPS Speaker Microphone
- **VGS-1*** Voice Guide and Storage Unit
- **KVC-21** Vehicular Charger
- **KEP-1** Heavy Duty Earphone
- **KHS-11BL** 2-Wire Palm Mic with Earphone
- **KHS-12BL** 3-Wire Mini Lapel Mic with Earphone
- **KHS-14** Lightweight Single Muff Headset
- **KHS-15-0H** Heavy Duty Over-the-Head Headset
- **KRA-22/23** VHF/UHF Helical Antenna
- **KRA-26/27** VHF Helical Antenna UHF Whip Antenna
- **KBH-11** Belt Clip

*VGS-1 should be installed by Kenwood authorized service center for a proper activation of the IP67 water and dust protection.

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-200	NX-300
GENERAL			
Frequency Range		136-174 MHz	400-470 MHz
Number of Channels		512	
Zones		128	
Max. Channels per Zone		250	
Channel Spacing	**Analogue**	12.5 / 20 / 25 kHz	
	Digital	6.25 / 12.5 kHz	
Operating Voltage		7.5 V DC ± 20%	
Battery Life (with KNB-48L)	**5-5-90**	More than 14.5 hours	
	10-10-80	More than 9.0 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			
	Radio only	58 x 127.5 x 41.3 mm	
	with KNB-47L	58 x 127.5 x 41.3 mm	
	with KNB-48L	58 x 127.5 x 48.5 mm	
Weight (net)	**Radio only**	260 g	
	with KNB-47L	375 g	
	with KNB-48L	405 g	
Applicable Standards	**ETSI R & TTE**	EN 300 086, EN 300 113, EN 300 219, EN 301 489, EN 301 166	
	ETSI Safety	EN 60065, EN 60950-1, EN 60215	

		NX-200	NX-300
RECEIVER			
Sensitivity (Analogue)	**EIA 12dB SINAD**	0.28 µV / 0.28 µV / 0.32 µV	
(25kHz/20kHz/12.5kHz)	**EN 20dB SINAD**	-3 dB µV (0.35 µV) / -3 dB µV (0.35 µV) / -1 dB µV (0.45 µV)	
Sensitivity (Digital)	**3% BER**	0.32 µV / 0.25 µV	
(12.5kHz/6.25kHz)	**1% BER**	-1 dB µV (0.45 µV) / -4 dB µV (0.32 µV)	
Adjacent Channel Selectivity (Analogue)			
(25kHz/20kHz/12.5kHz)		76 dB / 74 dB / 68 dB	
Intermodulation (Analogue)		65 dB	
Spurious Response Rejection (Analogue)		75 dB	
Audio Distortion		Less than 3%	
Audio Output		500 mW / 8 Ω	
TRANSMITTER			
RF Power Output	**High / Low**	5 W / 1 W	
Modulation Limiting (Analogue)		± 5.0 kHz at 25 kHz ± 4.0 kHz at 20 kHz ± 2.5 kHz at 12.5 kHz	
Spurious Emission		- 36 dBm ≤ 1 GHz, -30 dBm > 1 GHz	
FM Noise (EIA)			
(Analogue, 25 kHz / 20 kHz /12.5 kHz)		45 dB / 45 dB / 40 dB	
Modulation Distortion		Less than 3%	
Microphone Impedance		1.8 kΩ	
Modulation		16K0F3E, 14K0F3E, 14K0F2D, 12K0F2D, 8K50F3E, 7K50F2D, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D	

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AMBE+2™ is a trademark of Digital Voice Systems Inc.
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Analogue measurements made per EN Standards or TIA/EIA 603 and specifications shown are typical.
Specifications are subject to change without notice, due to advancements in technology.

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
Immersion	–	–	–	512.4/Procedure I	512.5/Procedure I
International Protection Standard					
Dust & Water Protection	IP54/55/67				

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