

NEXEDGE

Digital Two-Way Radio

NX-205G/305G

NEXEDGE® VHF/UHF Digital & Analog Portable Radios

NEXEDGE is KENWOOD's innovative digital conventional and trunked radio solution, designed to meet the highest demands of today's communications environment and to provide users with a multitude of NEXEDGE-abilities to transform their operations. This versatile compact radio supports both NXDN digital and analog modes via a common transceiver technology, which creating a self-paced migration path to accommodate budgetary, administrative, organization and timeline requirements.



5 W (136-174 MHz) Models 5 W (400-470, 450-520 MHz) Models 512 CH-GID / 128 Zones 12-Key Keypad Models 14 Character Alphanumeric Aliases Backlit Dot Matrix LCD Function/Status LCD Icons Multi-Language Display Date & 12/24 Hour Time Clock Transmit/Busy/Call Alert/Warn LED On/Off Volume Knob 16-Position Mechanical Selector

2 Side PF Keys 500 mW Speaker Audio **Emergency Call Features** Built-In GPS Unit KPG-111D Windows® FPU Flash Firmware Upgrading MIL-STD-810 C/D/E/F/G IP54/55 Water & Dust Intrusion Immersion (IP67) Option PC Serial Interface SDM Manual Input Transparent Data Mode Color Housing Option

Digital - General

6 Front PF & Menu Keys

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 Messaging¹ Remote Stun/Kill¹ Remote Check¹ Short & Long Data Messages¹ GPS Location with Voice1 NXDN® Scrambler Included AES & DES Encryption Module Option AES/DES Software Key Loader Option

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 Mode² Message Trunked Mode² Call Queuing with Priority²

Late Entry (UID & GID)2 4 Priority Monitor ID's2 Remote Group Add¹ Failsoft Mode Gen2 Upgrade Option











Multi-Site IP Networks Compatible

60,000 GIDs / UIDs Wide Area Group Call Auto Roaming Registration Group Registration Gen2 Advanced GPS Reporting Gen2 Direct Frequency Assignment

Multi-System Compatible

8 Trunked Networks³ UID Lists for each network Multi-System Roaming

Scan

Single Zone / Multi-Zone / List Scan

Dual Priority Scan (Conventional)

Analog Mode - General

12.5 & 25 kHz Channels Conventional & LTR® or MPT Zones FleetSync®/II, MDC-1200, DTMF

Voice Inversion Scrambler QT / DQT & Two-Tone Analog Scrambler Board Capability

MPT Zones

Single-Site Trunking Multi-Site Network Trunking 8 Network Capacity Network Roaming / Registration

FleetSync[®]/II (FM)

PTT ID ANI / Caller ID Selective / Group Call

Emergency Status / Text Messages¹

MDC-1200

PTT ID ANI / Caller ID

Emergency / Radio Check & Inhibit



Specifications

General	NX-205G		NX-305G	
Frequency Range				
	136-174 MHz		Type 1: 450-520 MHz Type 2: 400-470 MHz	
Channels Per Radio		512		
Number of Zones		128		
Max. Channels per Zone				
Channel Spacing Analog Digital	12.5/15/25/30 kHz 6.25 kHz/12.5 kHz		12.5/25 kHz 6.25 kHz/12.5 kHz	
Power Supply	7.5V DC ± 20%			
Battery Life KNB-48LAM 5-5-90 10-10-80	Approx.14.5 hours Approx. 90 hours			
Operating Temperature	-22°F to +140°F (-30°C to +60°C)			
Frequency Stability	±2.0 ppm		±1.0 ppm	
Antenna Impedance		50 Ω		
Dimensions/Weight Radio Only KNB-47LAM KNB-48LAM	(W x H x D) 2.28 x 5.02 x 1.63 in. (58.0 x 2.28 x 5.02 x 1.63 in. (58.0 x 2.28 x 5.02 x 1.91 in. (58.0 x	(127.5 x 41.3 mm)	d 9.17 oz (260g) 13.23 oz (375g) 14.29 oz (405g)	
FCC ID Type 1 Type 2	ALH378400		ALH378500 ALH378501	

Analog measurements made per TIA603. Specifications are measured according to applicable standards. Specifications are subject to change without notice, due to advancements in technology.

Requires compatible PC software application or console.

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

 Up to 8 different Trunked networks can be configured per radio (each in a zone)

FleetSync* is a registered trademark of I/VCKENWOOD Corporation. LTR* is a registered trademark of Transcrypt International. AMBE+2* is a trademark of Digital Voice Systems in Marchael Systems of Digital Voice Systems in Marchael Systems of Microsoft Corporation. MXDN* is a registered trademark of Microsoft Corporation and Icom Inc. NXENS* FleetSync* are registered trademarks of I/VCKENWOOD Corporation. All other trademarks are the property of their respective holders.

Receiver	NX-205G		NX-305G
Sensitivity NXDN* 6.25 kHz Digital (3% BER) NXDN*12.5 kHz Digital (3% BER) Analog (12dB SINAD)		0.20 μV 0.25 μV 0.25 μV	
Selectivity Analog @ 12.5kHz Analog @ 25kHz		65 dB 72 dB	
Intermodulation		70 dB	
Spurious Rejection		70 dB	
Audio Distortion		Less than 3%	
Audio Output Power		500 mW/8Ω (3% Distortion)	

Transmitter	NX-205G		NX-305G
RF Power Output		5 W to 1 W	
Spurious Emission		70 dB	
FM Hum & Noise Analog @ 12.5kHz Analog @ 25kHz		40 dB 45 dB	
Audio Distortion	Less than3%		
Emission Designator	16K0F3E, 11K0F3E, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K90ED1 AK90EPD		

Time to First Fix Cold Start
Horizontal Accuracy <10 Meters
Horizontal Accuracy <10 Meters
Channels 50 Channels
Tracking Sensitivity -162 dBm

MIL-STD & IP

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/Prcedure 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
/ibration	514.2/Procedure VIII, X	514.3/Procedure I	514.4/Procedure I	514.5/Procedure I	514.6/Procedure I
hock	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
mmersion (Optional)				512.4/Procedure I	512.5/Procedure I

JVCKENWOOD USA Corporation

Communications Sector Headquarters 1440 Corporate Drive | Irving, TX 75038

Order Administration/Distribution P.O. BOX 22745, 2201 East Dominguez St., Long Beach, CA 90801-5745

www.kenwood.com/usa







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