KENWOOD

NEXEDGE®
One Radio with Multi-Protocol Support

NXDN® DMR DMR Auto Slot Select FleetSync®

NX-1200/1300
MULTI-PROTOCOL DIGITAL & ANALOG PORTABLE RADIOS

A SINGULAR SOLUTION

If you are thinking of harnessing the latest digital protocols – NXDN or DMR – to enhance business efficiency or FM analog for its simplicity, the NEXEDGE NX-1200/1300 radios have you covered. Our singular solution offers the widest selection of two-way radios for everyday use. The model matrix also includes basic and keypad variations, with or without a high-contrast backlit LCD. Other features include a 7-color LED indicator and the popular KENWOOD 2-pin audio accessory connector. Plus, mixed-mode operation ensures seamless integration with legacy radios while smoothing the onward migration path to digital. But whatever your specific needs, audio quality is what determines clear voice communications – which is why KENWOOD radios are used under the most grueling conditions, like the cockpit of a racing car. Thanks to our extensive experience with professional systems, reliability is second to none. So whatever your radio requirements, KENWOOD's NEXEDGE NX-1200/1300 radios offer a single platform that's right for you.

Standard Keypad & Basic Models

Features

Multi-protocol digital radio: Designed to operate under NXDN or DMR digital and FM analog protocols

Choose from direct & intuitive LCD with standard keypad or basic enclosures

Easy visible Display: 8-digit LCD models featuring high-contrast, white backlit LCD

Large 7-Color LED indicator on the top panel

 Selective Power-on LED

 Selective Call Alert LED

 Battery Level Indication

 Multi-status function indication

RF output power 5W both on VHF/UHF

Mixed Zone - analog and digital

Renowned KENWOOD Audio Quality: TX/RX audio profile with optimizable digital processor

 Audio Equalizer: Flat, High, Low

 Auto Gain Control: On, High, Low, Off

 Noise Suppressor

 Microphone type settings

Multiple Scan Functions; Dual Priority, Single Priority, Single Zone, Multi, Normal Scan

VOX & PTT –triggered Semi- VOX, Voice-operated TX

Emergency Function: Customizable Emergency Profile

Lone Worker

Max / Min Volume setting & Volume control

Voice Announcement

Remote Stun / Kill / Check

Front Panel Programming Mode (for Keypad model)

Electronic Serial Number (ESN)

MIL-STD-810 C/D/E/F/G

IP54 and IP55

Intrinsically safe option (Future release)

Digital – NXDN® Mode

FDMA – Very narrow 6.25 kHz & narrow 12.5 kHz bandwidths

NXDN Conventional Operation

Site Roaming

Digital / Analog Mixed mode

Group / Individual Call

Status / Short data, Paging Call

Remote Stun / Kill, Monitor, Check & Control

Digital Bit Scrambler

Late Entry

Over-the-Air Alias (OAA)

Digital – DMR Mode

TDMA 2-slot 12.5 kHz bandwidth equivalent to 6.25 kHz very narrow bandwidth

DMR Tier II Conventional Operation

Site Roaming

DMR Auto Slot Select

Dual Slot Direct Mode

Digital / Analog Mixed mode

Call Interruption

Group / Individual Call

Status / Short data, Paging Call

Remote Stun / Kill, Monitor, Check & Control

Enhanced Encryption (ARC4)

Digital Bit Scrambler

Late Entry

Over-the-Air Alias (OAA)

Analog – FM

FM Conventional Operation

FleetSync: PTT ID, Stun/Revive, Talk back, Selcall

MDC1200: PTT ID, Radio Inhibit/Uninhibit, Radio check, Emergency

QT / DQT, DTMF, 2-tone

Built-in Programmable Voice Inversion Scrambler (per channel)

Built-in Compander (per channel)

Accessories

KNB-45L
2,000mAh/7.4V
Li-Ion Battery Pack

KNB-69L
2,550mAh/7.4V
Li-Ion Battery Pack

KNB-82LCM
2,000mAh/7.4V, Intrinsically
Safe Li-Ion Battery Pack

KSC-35SK
Fast Charger
For the KNB-45L/69L
82LCM (3-Hour)

KSC-43K
Dual Chemistry
Fast Charger
For the KNB 29N/45L/69L/82LCM

KVC-22
DC Vehicular
Charger Adapter

KRA-22/23
VHF/UHF Low Profile
Helical Antenna

KRA-26/ 27
VHF Helical Antenna
UHF Whip Antenna

KRA-41/42
VHF/UHF
Stubby Antenna

KMC-45D
Speaker Microphone

KHS-26
Earbud In-line
PTT Headset

KHS-27A
D-Ring In-line
PTT Headset

KHS-31C
C-Ring PTT Ear
Hanger Headset

KBH-10
Belt Clip

Specifications

General	NX-1200		NX-1300
Pre-set Frequencies			
Type 1	136-174 MHz		450-520 MHz
Type 2			400-470 MHz
Max. Channels per Radio		260 (64 for basic model)	
Number of Zones		128 (4 for basic model)	
Max. Channels per Zone		250 (16 for basic model)	
Channel Spacing			
Analog		30*¹ / 25*¹ / 15 / 12.5 kHz	
Digital		12.5 / 6.25 kHz	
Power Supply		7.5 VDC ±20 %	
Battery Life	DMR		Analog/NXDN
KNB-45L (2000mAh)	Approx. 14.5 hours		Approx. 11 hours
KNB-69L (2550mAh)	Approx. 19 hours		Approx. 14 hours
Operating Temperature(Radio only)*²		-22°F to +140°F (-30°C to +60°C)	
Frequency Stability (-30 to +60°C; +25°C Ref.)		±0.5 ppm	
Antenna Impedance		50 Ω	
Dimensions		(W x H x D) Projections Not Included	
Radio with KNB-45L/82LCM		2.13 x 4.84 x 1.32 in (54 x 123 x 33.5 mm)	
Radio with KNB-69L		2.13 x 4.84 x 1.48 in (54 x 123 x 37.5 mm)	
Weight	(Basic model)	(Standard keypad model)	
Radio Only	5.64 oz (160 g)	6.17 oz (175 g)	
Radio with KNB-45L/82LCM	9.88 oz (280 g)	10.41 oz (295 g)	
Radio with KNB-69L	10.41 oz (295 g)	10.93 oz (310 g)	
FCC ID			
Type 1	K44501000		K44501101
Type 2			K44501100
IC Certification	282F-501000		282F-501100

Receiver	NX-1200	NX-1300
Sensitivity		
NXDN® @ 6.25 kHz Digital (3% BER)	0.18 μV	
NXDN® @ 12.5 kHz Digital (3% BER)	0.22 μV	
DMR® @ 12.5 kHz Digital (1% BER)	0.25 μV	
DMR® @ 12.5 kHz Digital (5% BER)	0.18 μV	
Analog @ 12.5/25 kHz (12 dB SINAD)	0.20 μV / 0.24 μV	
Selectivity		
Analog @ 12.5 / 25 kHz	68 dB / 74 dB	
Intermodulation Distortion	70 dB	
Spurious Rejection	70 dB	
Audio Distortion	7%	
Audio Output Power	1 W / 12 Ω (Internal Output)	

Transmitter	NX-1200	NX-1300
RF Power Output (High / Low)	5 W / 4 W / 1 W	
Spurious Emission	-70 dB	
FM Hum & Noise		
Analog @ 12.5 / 25 kHz	40 dB / 45 dB	
Audio Distortion	2%	
DMR Digital Protocol	ETSI TS 102 361-1, -2, -3	
Emission Designator	16K0F3E, 11K0F3E, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D, 7K60FXD, 7K60F7W	

FleetSync® is a registered trademark of JVCKENWOOD Corporation in the United States and/or other countries.
NXDN® is a trademark of JVCKENWOOD Corporation and Icom Inc.
NEXEDGE® is a registered trademark of JVCKENWOOD Corporation.
All other trademarks are the property of their respective holders.

*1 25 / 30 kHz in VHF/UHF Bands excluding T-Band are not included in the models sold in the USA or US territories.
*2 Operating temperature specification for a Li-ion battery is -10°C to +60°C [14°F to +140°F].

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

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/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
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 IP54/55, the 2-pin connector cover has to be connected on the radio or the locking bracket has to be attached to the external speaker microphone.		