KENWOOD

NEXEDGE®

One Radio with Multi-Protocol Support

NX-1200/1300

MULTI-PROTOCOL DIGITAL & ANALOG PORTABLE RADIOS

NXDN® DMR DMR Auto Slot Select FleetSync®

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

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

All accessories may not be available in all markets.
Contact an authorized Kenwood dealer for details and complete list of all accessories.

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

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

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

KMC-45D
Speaker Microphone

KHS-31C
C-Ring PTT Ear
Hanger Headset

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

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

KRA-26/ 27
VHF Helical Antenna
UHF Whip Antenna

KHS-26
Earbud In-line
PTT Headset

KBH-10
Belt Clip

KNB-82LCM
1,900mAh/7.4V, Intrinsically
Safe Li-Ion Battery Pack

KVC-22
DC Vehicular
Charger Adapter

KRA-41/42
VHF/UHF
Stubby Antenna

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

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

*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.

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.

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 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.

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

JVCKENWOOD Canada Inc.
Sede central y distribución canadiense
6070 Kestrel Road, Mississauga, Ontario, Canada L5T 1S8
www.kenwood.com/ca

KENWOOD Communications Global Website
comms.kenwood.com

JQA-1205 091
ISO9001 Registered
Communications Systems Business Unit
JVCKENWOOD Corporation

ADS#24020 Print in U.S.A.