

NEXEDGE®

NX-1200/1300

VHF/UHF TRANSCEIVERS

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 NX-1200/1300 has 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 NX-1200/1300 offers a single platform that's right for you.

Features

 $\hbox{Multi-protocol digital radio: Designed to operate under NXDN or DMR digital and FM analog protocols}$

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 (Available later)

NXDN®









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)

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



KRA-26/27 VHF Helical Antenna UHF Whip Antenna



KHS-26 Earbud In-line PTT Headset



KBH-10



KNB-82LCM 2,000mAh/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

Pre-set Frequencies Type 1 Type 2	136-174 MHz	450-520 MHz 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 Digital	30*1 / 25*1 / 15 / 12.5 kHz 12.5 / 6.25 kHz			
Power Supply	75 VDC ±20 %			
Battery Life KNB-45L (2000mAh) KNB-69L (2550mAh)	DMR Approx. 14.5 hours Approx. 19 hours	Analog/NXDN Approx. 11 hours Approx. 14 hours		
Operating Temperature(Radio only)*2	-22°F to +140°F (-30°C to	o +60°C)		
Frequency Stability (-30 to +60°C; +25	C Ref.) ±0.5 ppm			
Antenna Impedance	50 Ω			
Dimensions Radio with KNB-45L/82LCM Radio with KNB-69L	(W x H x D) Projections Not included 2.13 x 4.84 x 1.32 in (54 x 123 x 33.5 mm) 2.13 x 4.84 x 1.48 in (54 x 123 x 37.5 mm)			
Weight Radio Only Radio with KNB-45L/82LCM Radio with KNB-69L	6.17 oz (175 g) 10.41 oz (295 g) 10.93 oz (310 g)			
FCC ID Type 1 Type 2	K44501000	K44501101 (pending) 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 $+60^{\circ}$ C [14° F to $+140^{\circ}$ 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		
Sensitivity NXDN* @ 6.25 kHz Digital (3% BER) NXDN* @ 12.5 kHz Digital (3% BER) DMR* @ 12.5 kHz Digital (3% BER) DMR* @ 12.5 kHz Digital (5% BER) Analog @ 12.5 kHz Digital (5% BER)	018 µV 0.22 µV 0.25 µV 0.18 µV 0.24 µV / 0.20 µV	
Selectivity Analog @ 12.5 / 25 kHz	68 dB / 74 dB	
Intermodulation Distortion	70 dB	
Spurious Responce	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 Responce	-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. NXEDGE*: 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/Proedure 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

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









ADS#30919 Print in U.S.A