

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.

NXDN® **DMR** **DMR Auto Slot Select** **FleetSync**



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

Electronic Serial Number (ESN)

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

IP54 and IP55

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 Comander (per channel)

Accessories

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



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



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



KMC-45D
Speaker Microphone



KBH-10
Belt Clip



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



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



KRA-26/27
VHF Helical Antenna
UHF Whip Antenna



KNB-29N
1,500mAh/7.2V
Ni-MH Battery Pack



KVC-22
DC Vehicular
Charger Adapter
(For KSC-35SK Only)



KRA-28
VHF Broadband Antenna
(140-170MHz)



KRA-29P
UHF Broadband Antenna
(406-470MHz)

KMB-28A
Six Unit Charger Adapter
(For six KSC-35SK chargers)



Specifications

General	NX-1200	NX-1300
Frequency Range	138-174MHz	4061-470MHz
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 / 25 / 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
KNB-29N (1500mAh)	Approx. 11 hours	Approx. 8 hours
Operating Temperature(Radio only)*1	-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	213 x 48.4 x 132 in (54 x 12.3 x 33.5 mm)	
Radio with KNB-69L	213 x 48.4 x 148 in (54 x 12.3 x 37.5 mm)	
Radio with KNB-29N	213 x 48.4 x 132 in (54 x 12.3 x 33.5 mm)	
Weight Radio Only		
Radio with KNB-45L	6.17 oz (175g)	
Radio with KNB-69L	10.41 oz (295g)	
Radio with KNB-29N	10.93 oz (310g)	
Radio with KNB-29N	12.84 oz (364g)	
IC Certification	282F-501000	282F-501100

*1 Operating temperature specification for a Li-ion battery is -10°C to +60°C [+14°F to +140°F]. Specifications are measure according to applicable standards. Specifications shown are typical and subject to 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)		0.24 µV / 0.20 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	1W / 12 Q (Internal Output)	
Transmitter	NX-1200	NX-1300
RF Power Output (High / Medium / Low)	5 / 4 / 1W	5 / 4 / 1 / 0.25 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	

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MIL Standard	MIL810C Methods/Procedures	MIL810D Methods/Procedures	MIL810E Methods/Procedures	MIL810F Methods/Procedures	MIL810G Methods/Procedures
Low Pressure	5001/Procedure I	5002/Procedure I, II	5003/Procedure I, II	5004/Procedure I, II	5005/Procedure I, II
High Temperature	5011/Procedure I, II	5012/Procedure I, II	5013/Procedure I, II	5014/Procedure I, II	5015/Procedure I, II
Low Temperature	5021/Procedure I	5022/Procedure I, II	5023/Procedure I, II	5024/Procedure I, II	5025/Procedure I, II
Temperature Shock	5031/Procedure I	5032/Procedure I	5033/Procedure I	5034/Procedure I, II	5035/Procedure I
Solar Radiation	5051/Procedure I	5052/Procedure I	5053/Procedure I	5054/Procedure I	5055/Procedure I
Rain	5061/Procedure I, II	5062/Procedure I, II	5063/Procedure I, II	5064/Procedure I, III	5065/Procedure I, III
Humidity	5071/Procedure I, II	5072/Procedure II, III	5073/Procedure II, III	5074	5075/Procedure II
Salt Fog	5091/Procedure I	5092/Procedure I	5093/Procedure I	5094	5095
Dust	5101/Procedure I	5102/Procedure I	5103/Procedure I	5104/Procedure I, III	5105/Procedure I
Vibration	5142/Procedure VIII, X	5143/Procedure I	5144/Procedure I	5145/Procedure I	5146/Procedure I
Shock	5162/Procedure I, II, V	5163/Procedure I, IV	5164/Procedure I, IV	5165/Procedure I, IV	5166/Procedure I, IV

International Protection Standard

Dust & Water Protection

IP54/55

*2 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.

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