

NX-1200A/1300A

5W VHF/UHF ANALOG PORTABLE RADIOS

NX-1200A/NX-1300A is efficient and functional 5W portable radios operate in analog FM. It is packed with features for intuitive operation and excellent performance. The model matrix includes basic and keypad variations, with or without a high-contrast backlit LCD. Other features include a 7-color LED indicator and KENWOOD 2-pin audio accessory connector. If you wish to transition to Digital capability, by purchasing a software option, DMR and Analog or NXDN and Analog mixed operation is available which gives you the freedom and flexibility to migrate at your own pace. All this comes in a tough, compact radio with great value and all weather reliability!

Features

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

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

Multi-protocol digital radio: Designed to operate under NXDN or DMR digital and FM analog protocols (Optional License required)

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



Standard Keypad & Basic Models

Analog – FM

FM Conventional Operation	QT / DQT, DTMF, 2-tone
FleetSync: PTT ID, Stun/Revive, Talk back, Selcall	Built-in Programmable Voice Inversion Scrambler (per channel)
MDC1200: PTT ID, Radio Inhibit/Uninhibit, Radio check, Emergency	Built-in Compander (per channel)

Digital – NXDN® Mode (Optional License required)

FDMA – Very narrow 6.25 kHz & narrow 12.5 kHz bandwidths	Status / Short data, Paging Call
NXDN Conventional Operation	Remote Stun / Kill, Monitor, Check & Control
Site Roaming	Digital Bit Scrambler
Digital / Analog Mixed mode	Late Entry
Group / Individual Call	Over-the-Air Alias (OAA)

Digital – DMR Mode (Optional License required)

TDMA 2-slot 12.5 kHz bandwidth equivalent to 6.25 kHz very narrow bandwidth	Group / Individual Call
DMR Tier II Conventional Operation	Status / Short data, Paging Call
Site Roaming	Remote Stun / Kill, Monitor, Check & Control
DMR Auto Slot Select	Enhanced Encryption (ARC4)
Dual Slot Direct Mode	Digital Bit Scrambler
Digital / Analog Mixed mode	Late Entry
Call Interruption	Over-the-Air Alias (OAA)

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-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-69L
2,550mAh/7.4V
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



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



Specifications

General	NX-1200A	NX-1300A
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" / 25" / 15 / 12.5 kHz	
Digital	12.5 / 6.25 kHz	
Power Supply	7.5 VDC $\pm$ 20 %	
Battery Life		
KNB-45L (2000mAh)	Approx. 14.5 hours (15 hours for Basic model)	Approx. 11 hours (11.5 hours for Basic model)
KNB-69L (2550mAh)	Approx. 19 hours (19.5 hours for Basic model)	Approx. 14 hours (14.5 hours for Basic model)
Operating Temperature(Radio only)*2	-22°F to +140°F (-30°C to +60°C)	
Frequency Stability (-30 to +60°C; +25°C Ref.)	$\pm$ 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-1200A	NX-1300A
Sensitivity		
NXDN* @ 6.25 kHz Digital (3% BER)	0.18 μ V	
NXDN* @ 12.5 kHz Digital (3% BER)	0.22 μ V	
DMR* @ 12.5 kHz Digital (1% BER)	0.25 μ V	
DMR* @ 12.5 kHz Digital (5% BER)	0.18 μ V	
Analog @ 12.5/25 kHz (12 dB SINAD)	0.20 μ V / 0.24 μ V	
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-1200A	NX-1300A
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	ETS1 TS 102 361-1, -2, -3	
Emission Designator	16K0F3E, 11K0F3E, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D, 7K60FXD, 7K60F7W	

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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	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	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.			

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