

NX-1200/1300 VHF/UHF TRANSCEIVERS

[Suffix on the model no. stands for CAI:
N=NXDN and D=DMR Versions]

NX-1000 series
Radios – For each and every

NXDN™ **DMR**

FleetSync®
by KENWOOD

DMR >>>>
Auto Slot
Select >>>>

ONE-“K”-FITS-ALL: A SINGULAR SOLUTION

If you are thinking of harnessing the latest digital protocols – NXDN or DMR – to enhance business efficiency, the NX-1200/1300 has you covered. Our One-“K”-Fits-All 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.

● GENERAL FEATURES

- **Wide variations, “One” platform:** To meet various demands — NXDN or DMR digital CAI models are available
- **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**
- **Wide band UHF 70MHz coverage**
- **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)**

● DIGITAL – NXDN

- 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

- 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, 5-tone
- Built-in Programmable Voice Inversion Scrambler (per channel)
- Built-in Compander (per channel)



Standard Keypad model

Basic model

OPTIONAL ACCESSORIES

- **KNB-45L/69L**
Li-ion BATTERY PACK (7.4 V/2000 mAh, 7.4 V/2450 mAh)
- **KNB-53N**
Ni-MH BATTERY PACK (7.2 V/1400 mAh)
- **KNB-82LC**
Li-ion BATTERY PACK (7.4 V/1900 mAh, Intrinsically Safe)*
*Available later
- **KSC-35S**
RAPID CHARGER (for Li-ion KNB-45L/69L/82LC)
- **KSC-43**
RAPID CHARGER (for Li-ion KNB-45L/69L/82LC & Ni-MH KNB-53N)
- **KSC-356A**
MULTIPLE CHARGER
(6-pocket for Li-ion KNB-45L/69L/82LC)
- **KSC-35SCR**
CHARGER POCKET (6-pocket for KMB-35A)



- **KMB-35A**
MULTI CHARGER ADAPTER (for KSC-35SCR)

- **KVC-22**
DC VEHICULAR CHARGER ADAPTER (for KSC-35S)



- **EMC-11/12**
CLIP MICROPHONE WITH EARPHONE (STD, EAR-HANGING)



- **KHS-35F**
HEADSET (EAR-HOOK)



- **KMC-45D**
SPEAKER MICROPHONE



- **KRA-22/23**
VHF/UHF HELICAL ANTENNA (Low Profile)



- **KRA-26**
VHF HELICAL ANTENNA (Standard Length)



- **KRA-27**
UHF WHIP ANTENNA (Standard Length)



- **KRA-41/42**
VHF/UHF STUBBY ANTENNA



- **KBH-10**
BELT CLIP



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

SPECIFICATIONS

GENERAL	NX-1200	NX-1300	
Frequency Range	136-174 MHz	400-470 MHz	
Max. Channels per Radio	260 (64 for no LCD models)		
Number of Zones	128 (4 for no LCD models)		
Max. Channels per Zone	250 (16 for no LCD models)		
Channel Spacing	Analog	25 / 12.5 kHz	
	Digital	12.5 / 6.25 kHz	
Power Supply	7.5 VDC ±20 %		
Battery Life (5-5-90)	TDMA	FDMA	
	KNB-45L	14.5 H	11 H
	KNB-53N	10 H	7 H
	KNB-69L	19 H	14 H
Operating Temperature (Radio only)*1	-30°C to +60°C		
Frequency Stability (-30 to +60°C; +25°C Ref.)	±0.5 ppm		
Dimensions (W x H x D) / Weight (net)	Radio only	54 x 123 x 33.5 mm / 175 g	
	With KNB-45L/82LC	54 x 123 x 33.5 mm / 295 g	
	With KNB-53N	54 x 123 x 33.5 mm / 365 g	
Projections not included; for Std keypad model	With KNB-69L	54 x 123 x 37.5 mm / 310 g	

*1 Operating temperature specification for a Li-ion battery is -10°C to +60°C. Specifications are measured according to applicable standards. Specifications shown are typical and subject to change without notice, due to advancements in technology. Details and timing of firmware and software updates are subject to change without notice.

RECEIVER	NX-1200	NX-1300
Sensitivity	NXDN@12.5/6.25 kHz 1 % BER	-4.4 dBµVemf (0.30 µV) / -6.4 dBµVemf (0.24 µV)
	NXDN@12.5/6.25 kHz 3 % BER	-6.4 dBµVemf (0.24 µV) / -8.4 dBµVemf (0.19 µV)
	DMR@12.5 kHz 1 % BER	-5.0 dBµVemf (0.28 µV)
	DMR@12.5 kHz 5 % BER	-8.0 dBµVemf (0.20 µV)
	Analog (12 dB SINAD) (25/20/12.5 kHz)	-5.7 dBµVemf (0.26 µV) / -5.4 dBµVemf (0.27 µV) / -7.1 dBµVemf (0.22 µV)
Analog (20 dB SINAD) (25/20/12.5 kHz)	-3.9 dBµVemf (0.32 µV) / -3.6 dBµVemf (0.33 µV) / -3.6 dBµVemf (0.33 µV)	
Selectivity	Analog@ 25/20/12.5 kHz	74 / 72 / 67 dB
Intermodulation		65 dB
Spurious Rejection		70 dB
Audio Distortion		7 %
Audio Output (Internal)		1 W
TRANSMITTER	NX-1200	NX-1300
RF Power Output	5 / 4 / 2.5 / 1 W	
Spurious Emission	<1GHz ≤ -36dBm, 1GHz - 4GHz ≤ -30dBm	
FM Hum & Noise	Analog@25/20/12.5 kHz	
Audio Distortion	45 / 45 / 40 dB	
Audio Distortion	2 %	
DMR Digital Protocol	ETSI TS 102 361-1, -2, -3	
Emission Designator	16K0F3E, 14K0F2D, 14K0F3E, 12K0F2D, 8K50F3E, 7K50F2D, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D, 7K60FXE, 7K60FXD	

MIL-STD & IP

MIL Standards	Methods / Procedures				
	810C	810D	810E	810F	810G
Low Pressure	500.1/ I	500.2/ I, II	500.3/ I, II	500.4/ I, II	500.5/ I, II
High Temperature	501.1/ I, II	501.2/ I, II	501.3/ I, II	501.4/ I, II	501.5/ I, II
Low Temperature	502.1/ I	502.2/ I, II	502.3/ I, II	502.4/ I, II	502.5/ I, II
Temp. Shock	503.1/ I	503.2/ I	503.3/ I	503.4/ I, II	503.5/ I
Solar Radiation	505.1/ I	505.2/ I	505.3/ I	505.4/ I	505.5/ I
Rain*2	506.1/ I, II	506.2/ I, II	506.3/ I, II	506.4/ I, III	506.5/ I, III
Humidity	507.1/ I, II	507.2/ II, III	507.3/ II, III	507.4	507.5/ II
Salt Fog	509.1/ I	509.2/ I	509.3/ I	509.4	509.5
Dust	510.1/ I	510.2/ I	510.3/ I	510.4/ I, III	510.5/ I
Vibration	514.2/ VIII, X	514.3/ I	514.4/ I	514.5/ I	514.6/ I
Shock	516.2/ I, II, V	516.3/ I, IV	516.4/ I, IV	516.5/ I, IV	516.6/ I, IV
International Protection Standards	IP54, 55				

*2 All interfaces must be fully sealed with appropriate covers or by designated genuine accessories.

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JVCKENWOOD U.K. Limited

12 Priestley Way, London NW2 7BA, United Kingdom
<https://kenwoodcommunications.co.uk/comm/>

KENWOOD Communications
Global Website



comms.kenwood.com



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JVCKENWOOD Corporation

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