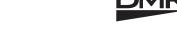
# NX-1000 series

Radios - For each and every

# NX-1200D/1300D

### VHF/UHF TRANSCEIVERS

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







## **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 full 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 Cal 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 setting
- 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 / 55 and IP67
- 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)
- Voting



#### OPTIONAL ACCESSORIES

 KNB-69L Li-ion BATTERY PACK (7.4 V/2450 mAh)

KNB-82LC Li-ion BATTERY PACK (7.4 V/1900 mAh, Intrinsically Safe) [IP67]\*

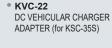
 KNB-84L Li-ion BATTERY PACK (7.4 V/1900 mAh) [IP67]

 KSC-43 RAPID CHARGER (for Li-ion KNB-45L/69L/82LC/84L & Ni-MH KNB-53N)

 KSC-356A MULTIPLE CHARGER (6-pocket for Li-ion KNB-45L/69L/82LC)

 KBH-10 **BELT CLIP** 







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

 KHS-35F HEADSET (EAR-HOOK)

 KMC-45D SPEAKER MICROPHONE







All accessories and options may not be available in all markets

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

(Standard Length)

• KRA-27







Contact an authorized KENWOOD dealer for details and complete list of all accessories and options. SPECIFICATIONS

GENERAL		NX-1200	NX-1300		
Frequency Range	requency Range		Type 1: 450-520 MHz Type 2: 400-470 MHz		
Max. Channels per Radio	Max. Channels per Radio		260 (64 for Basic models)		
Number of Zones	Number of Zones		128 (4 for Basic models)		
Max. Channels per Zone			asic models)		
Channel Cassing	Analog	30 / 25 / 15 / 12.5 kHz			
Channel Spacing	Digital	12.5 / 6.25 kHz			
Power Supply		7.5 VDC ±20 %			
D-#1:f-		TDMA	FDMA		
Battery Life (5-5-90)	KNB-45L/84L	14.5 H	11 H		
,	KNB-53N	10 H	7 H		
for Std keypad model	KNB-69L	19 H	14 H		
Operating Temperature (R	perating Temperature (Radio only)*1		-30°C to +60°C		
Frequency Stability (-30 to	cy Stability (-30 to +60°C; +25°C Ref.) ±0.5 ppm		ppm		
Dimensions (W x H x D) / Weight (net)	Radio only	54 x 123 x 33.5 mm / 175 g			
	With KNB-45L/84L	54 x 123 x 33.5 mm / 295 g			
Projections not included;	uded; With KNB-53N 54 x 123 x 33.5 mm / 365 g	.5 mm / 365 g			
for Std keypad model	With KNB-69L	54 x 123 x 37.5 mm / 310 g			

With KNB-69L

\*1 Operating temperature specification for a Li-ion battery is -10°C to +60°C.
All specifications shown are typical.
Analog measurements made per TIA-603 and specifications shown are typical.
NXDN CAI & EN300-113, EN301 166 and specifications shown are typical.
Details and timing of firmware and software updates are subject to change without notice.
Specifications are subject change without notice, due to advancements in technology.

RECEIVER		NX-1200	NX-1300	
Sensitivity	NXDN@6.25 kHz 3 % BER	0.19 μV		
	NXDN@12.5 kHz 3 % BER	0.24 μV		
	DMR@12.5 kHz 1 % BER	0.28 μV		
	DMR@12.5 kHz 5 % BER	0.20 μV		
	Analog@12.5 / 25 kHz (12 dB SINAD)	0.22 / 0.26 μV		
Selectivity	Analog@12.5 / 25 kHz	67 / 74 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 / 1 W		
Spurious Emission		-70 dB		
FM Hum & Noise Analog@12.5 / 25 kHz		40 / 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, 7K60FXE, 7K60FXD		

#### MIL-STD & IP\*2

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		
_ow 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	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		
/ibration	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		
nternational Protection Standards							
Oust & Water	IP54/55 or IP67* <sup>3</sup>						

<sup>\*2</sup> All interfaces must be fully sealed with appropriate covers or by designated genuine accessories. \*3 Water & Dust tighten IP67 models equipped with designated genuine batteries are [M] and [M3 types only.

NXDN™ is a trademark of JVCKENWOOD Corporation and Icom Inc.
 FleetSync® is a registered trademark of JVCKENWOOD Corporation.

All other trademarks are the property of their respective holders.

# JVCKENWOOD Singapore Pte. Ltd.

1 Ang Mo Kio Street 63 Singapore 569110

https://www.kenwood.com/sg/com



