



- 5W VHF/UHF ANALOG PORTABLE RADIOS

## **NX-1200AV/1300AU**

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### **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)
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### **Digital – NXDN• Mode (Optional License required)**

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- FDMA – Very narrow 6.25 kHz & narrow 12.5 kHz bandwidths
- NXDN Conventional Operation

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- 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)
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## Digital – DMR Mode (Optional License required)

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- 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)
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## Features

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- 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)

## SPECIFICATIONS

General		NX-1200AV	NX-1300AU
Pre-set 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*1 / 25*1 / 15 / 12.5 kHz	
	Digital	12.5 / 6.25 kHz	
Power Supply		7.5 VDC $\pm$ 20 %	
Battery Life		DMR	Analog/NXDN
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 $\Omega$	
Dimensions		(W x H x D) Projections Not Included	
Radio with KNB-45L		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		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
Receiver		NX-1200AV	NX-1300AU
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)	0.20 $\mu$ V / 0.24 $\mu$ 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 $\Omega$ (Internal Output)	
Transmitter		NX-1200AV	NX-1300AU
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		ETSI TS 102 361-1, -2, -3	

Emission Designator	16K0F3E, 11K0F3E, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D, 7K60FXD, 7K60FXE
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\*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.

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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	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	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/Procedure 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
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.	