KENWOOD

ProTalk DIGITAL

NX-P1200NV/P1300NU

5W VHF/UHF DIGITAL & ANALOG PORTABLE RADIOS

NXDN® FleetSync®

If you are thinking of harnessing our renowned NXDN digital protocol to enhance business efficiency or FM analog for its simplicity, KENWOOD ProTalk Digital NX-P1200NV and NX-P1300NU portable business radios have you covered. With mixed-mode operation to ensure 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. Thanks to our extensive experience with professional systems, reliability is second to none. So whatever your radio requirements, KENWOOD ProTalk Digital NX-P1200NV and NX-P1300NU radios offer a single platform that's right for you. It's business done right!

Note: Offers the ability to extend coverage with optional repeater (see NXR-710-810 for more information).

Switchable Digital and Analog Dual Modes (Digital capable models)

COMPATIBLE WITH DIGITAL AND ANALOG

The NX-P1000 portable radio allows the combination of analog and digital channels in the same zone. This gives you the ability to easily migrate to digital at your own pace, or operate more effectively in a mixed environment where groups of users have different needs or solutions.

NXDN DIGITAL AIR INTERFACE

NEXEDGE radios employ NXDN, an FDMA digital air interface with AMBE+2™ voice coding technology, with forward error correction and unique filtering to obtain superior coverage even at weak RF signal strengths.

ENHANCED AUDIO QUALITY

Based on decades of experience with professional and high quality audio products, the NX-P1000 can be customized to deliver the best digital audio to business radio users with various language backgrounds.

DIGITAL TECHNOLOGY PROVIDES SUPERIOR CLARITY IN EXTENDED COVERAGE

As RF signal strength weakens with distance, analog reception becomes increasingly noisy. NEXEDGE - NXDN digital modulation technology improves audio recovery in fringe areas, thereby "effectively" increasing the usable coverage compared to analog.

Simple Yet Tough

TOUGH & WATER RESISTANT *2

Built to take rough treatment in stride, the NX-P1000 has passed the demanding IP54/55 dust and water intrusion tests – both with and without the KMC-45 optional speaker microphone. It also meets or exceeds 11 stringent MIL-STD 8 10 C/D/E/F/G environmental standards, including "driven rain".

POWERFUL YET NATURAL SOUND OUTPUT

AMBE+2™ vocoder for natural audio with minimum delay; BTL audio amplifier for powerful 1-watt output.

Customize and Deploy

SECOND PTT

Make use of the Second PTT feature by giving different instructions to different staff as the radio allows the use of main channel plus another channel*1.

SELECTABLE 7-COLOR LED

A large 7-color LED indicator on the top panel illuminates to notify multi-status functions. *1

CLONING

Customize the radio programming one time and use the optional Cloning Cable to rapidly program groups of ProTalk radios with the same settings.

Secure

Confidentiality in radio communications is a KENWOOD priority, and helping to maintain a high level of security in analog mode is a 16-code voice inversion scrambler, while robust NXDN Digital 15 Bit encryption is available in digital mode.

Other Features

- Voice Announcement • SCAN • VOX / Semi-VOX (headset required) *1
- Button Lock • Time-out Timer • Battery Saver*1 • Calling Alert • QT / DQT
- Compander • Adjustable Microphone Gain • Low Battery Warning

*1: PC programming required.
*2: All interfaces must be fully sealed with appropriate covers or by designated genuine accessories

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-P1200NV	NX-P1300NU
Pre-set Frequencies	151-159 MHz	451-470 MHz
Max. Channels per Radio	64 channels	
Number of Zones	4 zones	
Max. Channels per Zone	16 channels	
Channel Spacing Analog Digital	 25*1 / 12.5 kHz 12.5 / 6.25 kHz	
Power Supply	7.5 VDC ±20 %	
Battery Life (5-5-90) KNB-45L (2000mAh) KNB-69L (2550mAh)	 Approx. 11.5 hours Approx. 14.5 hours	
Operating Temperature(Radio only)*2	-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 Radio with KNB-45L/82LCM Radio with KNB-69L	(W x H x D) Projections Not Included 2.13 x 4.84 x 1.32 in (54 x 123 x 33.5 mm) 2.13 x 4.84 x 1.48 in (54 x 123 x 37.5 mm)	
Weight Radio Only Radio with KNB-45L/82LCM Radio with KNB-69L	 5.64 oz (160 g) 9.88 oz (280 g) 10.41 oz (295 g)	
FCC ID	K44501000	K44501101

*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].

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.
Analog measurements made per TIA603. Specifications are measured according to applicable standards.
All interfaces must be fully sealed with appropriate covers or by designated genuine accessories.

Receiver	NX-P1200NV	NX-P1300NU
Sensitivity NXDN® @ 6.25 kHz Digital (3% BER) NXDN® @ 12.5 kHz Digital (3% BER) Analog @ 12.5/25 kHz (12 dB SINAD)	 0.18 µV 0.22 µV 0.20 µV / 0.24 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	1 W / 12 Ω (Internal Output) 500 mW / 8 Ω (External Output)	

Transmitter	NX-P1200NV	NX-P1300NU
RF Power Output*2 (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%	
Emission Designator	16K0F3E,*1 11K0F3E, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D	

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 I	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.

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