

NX-P500

DIGITAL BUSINESS TWO-WAY RADIO

The NX-P500 is a small, light and powerful UHF digital transceiver with mixed mode capability allowing for digital and analog communications for interoperability. This promotes a simple and effective method for transitioning to digital operations at your own pace. Ideal for business, retail, hospitality, education and the restaurant industry. Put your employees in touch with each other instantly and raise the level of communication for better service. A stronger collaboration through communication increases team work efficiency. The Dual PTT configuration allows a worker using an operations channel immediate access to their critical decision maker or emergency personnel without having to navigate the menu or memorize channel numbers.

Features

- Dual Mode NXDN Digital & FM Analog
- UHF 2 Watt Transmit Power
- Small (1.97" W x 3.70" H x 1.07" D) & Lightweight (5.6 oz)
- Li-Ion battery with over 15 Hours (w/Save On) Talk Time (5/5/90 duty cycle)
- 750 mW Loud Speaker
- High Brightness LCD Display
- 7-color LED Indicator
- IP67 Dust & Immersion / MIL-STD-810 C/D/E/F/G
- 6 Channel Operation (Factory pre-set)
- 99 User-Programmable Memory Bank Frequencies
- Digital/Analog Mixed Mode Operation
- Individual Call / Group Call
- Second PTT
- Channel Scan
- NXDN Digital & Analog Scrambler
- Repeater Mode
- Wireless Cloning Mode
- Key Lock/Super Lock
- User Programmable QT (45) and DQT (174) Signaling
- Compander
- FleetSync®
- LCD Battery Meter & Low Battery Alert
- VOX (Voice-activated transmit)
- Time Out Timer
- Free Programming Software (KPG-D5)
- FCC License required

Small Profile, Powerful Performance

A lightweight and compact body (approx. 5.64oz), with a slim and comfortable design. Powerful 2W maximum transmission output makes for easy reception, even in open spaces.

NXDN® FleetSync®



Loud Audio (750mW)

Clearly hear what your conversation partner is saying, even in noisy surroundings.

Rugged and Submersible

Compliant with 11 U.S. Military Standards (MIL-STD). IP67 protection against dust and immersion.

Mixed Mode - Analog and Digital

Equipped with Mixed Mode that enables communication with both analog and digital units, making the switch to digital operations go smoothly.

Flexible Multi-Unit Charging Options

Maximize your space with our customized charging options. Configure your charging needs with our clip together charging cups for ultimate flexibility or use the six unit multi charger. (Future Availability)

Rugged Accessory Connector

Custom programmable user software allow you the ability to customize a radio to your particular needs. With our exclusive wireless cloning, once you've program one radio you can easily clone surrounding radios wirelessly.

Accessories

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

KNB-81L
Li-ion Battery Pack
(3.6V/2200mAh)
(Same as Supplied)



KSC-506K
One Piece 6-Unit
Charger



EMC-14W
Clip Microphone with
Earphone (Ear-Hanging)



KBH-22W
Belt Clip Holder
Swivel Clip
(Same as Supplied)



KSC-50K
Single Unit Charger
(Same as Supplied)



KMC-55W
Speaker Microphone
(IP54/55/67)



KHS-37W
Headset (Ear-Hook)



KPG-D5
Free Programming Software
<http://www.kenwood.com/usa/com/osbr/nxp500/kpg-d5.html>

KSC-44MLKS
AC Adapter
(For KSC-50CR multi
unit use, up to 6 units)



EMC-13W
Clip Microphone
with Earphone (STD)



KBH-21W
Belt Clip



KPG-186UW
Programming Cable



Specifications

General	NX-P500
Frequency Range	99 User Programmable Memory Bank Frequencies (450-470MHz)
Number of Channels	6ch/16ch (BRS)
Number of Zones	2
Max. Channels per Zone	16
Channel Spacing	
Analog	25.0kHz / 12.5kHz (Wide / Narrow)
Digital	12.5kHz / 6.25kHz (Narrow / Very Narrow)
Power Supply	3.8 V DC \pm 10 %
Battery Life	(5-5-90 during hi-power battery saver: OFF/ON) KNB-81L (3.6V/2200mAh) Approx. 14 / 15.5 hours
Operating Temperature	+14 °F ~ +140 °F (-10 °C ~ +60 °C)
Frequency Stability	\pm 2.5 ppm (+14 °F ~ +140 °F)
Antenna Impedance	50 Ω
Dimensions with KNB-81L	(W x H x D) Projections Not Included 197 x 3.70 x 1.06 in (50 x 94 x 27 mm)
Weight Radio with KNB-81L	5.64 oz (160 g)

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-P500
Sensitivity	
Digital (Narrow / Very Narrow 3% BER)	0.25 μ V
Analog (Wide / Narrow 12dB SINAD)	0.25 μ V / 0.28 μ V
Selectivity	
Analog (Wide / Narrow)	60 dB / 50 dB
Intermodulation Distortion	50 dB
Spurious Response	55 dB
Audio Distortion	Less than 10%
Audio Output Power	750 mW / 4 Ω (Internal Speaker) 100 mW / 8 Ω (External Speaker)
Transmitter	NX-P500
RF Power Output (High / Low)	2 W / 1 W
Spurious Response	55 dB
FM Hum & Noise (Wide / Narrow)	45 dB / 40 dB
Emission Designator	4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D, 8K30F1E, 8K30F1D, 8K30F7W, (Digital) 16K0F3E, 11K0F3E (Analog)

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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	500.2/Procedure I, II	500.3/Procedure I, II	500.4/Procedure I, II	500.5/Procedure I, II
High Temperature	5011/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*	IP67				

* Audio accessory or cover must be installed.

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