



PD702

Digital Portable Two-Way Radio with Water / Dust Protection and GPS (Optional)







As a product built to the DMR standard, the PD702 has a compact, yet durable design which has been tested to IP57 water/dust protection and military spec standards. State-of-the-art digital DMR technology allows it to provide versatile digital functions such as secure communication and spectral efficiency. The Hytera PD702 Series brings you a NEW cutting edge technology at an exceptional value.



GPS Model (PD702G) Available

IP57-Rated: Submersible for up to 30 Min in 1M of Water

Narrow-Band Compliant with the FCC 2013 Mandate









Product Highlights



Ergonomic Design

A compact and light weight structural design makes the PD702 easy to carry and operate. The globally patented antenna design ensures convenient operation and remarkable GPS performance.

Rugged and Submersible

PD702 is strictly compliant with MIL-STD-810 C/D/E/F and IP57 standards, ensuring outstanding performance even in extreme environments.

Superior Audio

With the combined application of narrowband codec and digital error-correction technologies, PD702 is capable of ensuring you superior audio under noisy environments or at the edge of the coverage area. In addition, the adoption of the AGC technology also optimizes clarity and with the built-in 1W speaker, PD702 ensures clear and crisp voice communication.



Durable Battery

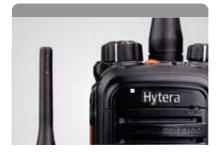
Compared with an analog radio, PD702 can obtain an extra 40% operation time between charges at the same output power.**

Spectrum Efficiency

Benefitting from the TDMA technology, PD702 allows twice the channels based on the same spectrum resource. This is a huge relief due to the increasing shortages in spectrum resources.

Dual-Slot Pseudo Trunking

With this feature, the free slot can be allocated to a member that needs to communicate. This enhances the frequency efficiency and allows you to communicate timely in emergency situations.



Secure Communication

Besides the intrinsic encryption of the digital technology, PD702 provides enhanced encryption capability (such as 256-bit encryption algorithm) and the Scrambler feature (selectable).

Versatile Functionalities

In addition to conventional communication, the PD702 features versatile digital and optional functions such as Message, Scan, Emergency, Man Down (optional), High-speed Data Transmission* and Lone Worker*.

Expansion Port

The reserved port in the PD702 allows users or a third party to further develop other helpful functions (GPS, Call Control and Telemetry).

Additional Features

Dual Modes (Analog+Digital)

PD702 can operate in either analog or digital mode. It is compatible with the prevalent analog systems, allowing for a smooth analog-to-digital transition.

Versatile Voice Calls

Intelligent signaling options of PD702 supports various call types, including Private Call, Group Call and All Call.

Vibrate

This feature is helpful in alerting you to reception of any voice or message under noisy or low-volume conditions.

GPS

PD702G supports viewing of GPS positioning information by a dispatch center utilizing third party GPS software.

IP Service*

PD702 allows multiple IP functions if connected with a PC via IP address.

Various Analog Signaling Types

PD702 supports various analog signaling types (HDC1200, DTMF*, 2-Tone* and 5-Tone*).

Emergency

The PD702 is equipped with multiple emergency alarm methods such as Man Down (optional) and Silent Emergency, enabling you to get instant help in the case of a critical event.

Scan

Allows you to listen/communication activities on other channels to you can keep a close track of your team members.

Software Upgradable

With this capability, you can enjoy further features available in later versions without buying a new radio.

* Indicates functions available in later version.

Mechanical Design Features



Power Adapter MCU Rapid-rate Charger

Belt Clip

Optional Accessories

















Specifications

General							
Frequency Range	VHF: 136-174MHz UHF1: 400-470MHz						
Channel Capacity	32						
Zone Capacity	3 (each with a max of 16 channels)						
Channel Spacing	25 /20/12.5 KHz						
Operating Voltage	7.4V (rated)						
Battery	2000mAh(Li-lon)						
Battery Life (5-5-90 Duty Cycle, High TX Power, No GPS, & 1:1 Battery Saving)	Analog: Above 14 Hours Digital: Above 16 Hours						
Frequency Stability	±1.5ppm						
Antenna Impedance	50Ω						
Dimensions (H×W×D) (with standard battery, without antenna)	125×55×35 mm / 4.921×2.165×1.378 inches						
Weight (with antenna & standard battery)	355g /0.74lb						
Front Case	PC						
	Receiver						
Sensitivity (Analog)	0.3µV (12dB SINAD) 0.22µV (Typical) (12dB SINAD) 0.4µV (20dB SINAD)						
Sensitivity (Digital)	0.3µV/BER5%						
Selectivity TIA-603 ETSI	60dB @ 12.5 kHz / 70dB @ 20/25 kHz 60dB @ 12.5 kHz / 70dB @ 20/25 kHz						
Intermodulation TIA-603 ETSI	70dB @ 12.5/20/25 kHz 65dB @ 12.5/20/25 kHz						
Spurious Response Rejection TIA-603 ETSI	70dB @ 12.5/20/25 kHz 70dB @ 12.5/20/25 kHz						
S/N	40dB @ 12.5 kHz 43dB @ 20 kHz 45dB @ 25 kHz						
Rated Audio Power Output	0.5W						
Rated Audio Distortion	≤3%						
Audio Response	+1~-3dB						
Conducted Spurious Emission	<-57 dBm						
GPS (for PD782G only)							
TTFF (Time To First Fix) Cold Start <1 minute							
TTFF (Time To First Fix) Hot Start	<10 seconds						

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Horizontal Accuracy





<10 meters (32.8 feet)

Hytera Communications Corporation Limited www.hytera.us

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Transmitter							
VHF High Power: 5W VHF Low Power: 1W UHF High Power: 4W UHF Low Power: 1W							
11КфГЗЕ @ 12.5 kHz 14КфГЗЕ @ 20 kHz 16КфГЗЕ @ 25 kHz							
12.5kHz Data Only: 7K60FXD 12.5kHz Data & Voice: 7K60FXW							
-36dBm<1GHz -30dBm>1GHz							
±2.5kHz @ 12.5 kHz ±4.0kHz @ 20 kHz ±5.0kHz @ 25 kHz							
40dB @ 12.5 kHz 43dB @ 20 kHz 45dB @ 25 kHz							
60dB @ 12.5 kHz 70dB @ 20/25kHz							
+1 ~ -3dB							
≤3 %							
AMBE++ or SELP							
ETSI-TS102 361-1, 2&3							
ntal Specifications							
-30°C ~ +60°C -22°F ~ +140°F							
-40°C ~ +85°C -40°F ~ +185°F							
IEC 61000-4-2 (level 4) 8kV (contact) 15kV (air)							
MIL-STD-810 C/D/E/F							
IP57 Standard							
Per MIL-STD-810 C/D/E/F Standard							
Per MIL-STD-810 C/D/E/F Standard							

Applicable Military Standards

American Military Standard	810	С	810D		810E		810F	
		Procedure		Procedure		Procedure		Procedure
Low Pressure	500.1	1	500.2	1, 11	500.3	I, II	500.4	П
High Temperature		I, II	501.2	1, 11	501.3	I, II	501.4	1, 11
Low Temperature	502.1	1	502.2	1, 11	502.3	I, II	502.4	1, 11
Temperature Shock	503.1	ı	503.2		503.3	l I	503.4	
Solar Radiation	505.1	1	505.2	1	505.3	I	505.4	1
Rain	506.1	II	506.2	l II	506.3	I, II	506.4	I, II
Humidity	507.1	Ш	507.2	II, III	507.3	II, III	507.4	
Salt Fog	509.1		509.2		509.3		509.4	
Sand & Dust	510.1	1	510.2	I	510.3	I I	510.4	-1
Vibration	514.2	VIII, X	514.3		514.4	1	514.5	1/24
Shock	516.2	I. II. V	516.3	I, IV	516.4	I, IV	516.5	I, IV