

Standard Accessories

Li-Ion Battery	Power Adapter	MCU Rapid-rate Charger	Belt Clip	Leather Strap	Antenna
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Optional Accessories

Remote Speaker (IP57) SM18M2	Earpiece with On-MIC PTT & Transparent Acoustic Tube EAN16	D-earset with In-Line Microphone EHN12	Earbud with On-MIC PTT ESN10	3-Wire Surveillance Earpiece with Transparent Acoustic Tube (beige) EAN17	Six-Unit Switching Power PS7002	Carrying Case (for thick battery) (leather) (w/well) LCY003	Programming Cable (USB Port) PC38

Pictures above are for reference only and may vary from actual products.

Specifications

General		Transmitter	
Frequency Range	VHF: 136~174MHz UHF1: 400~470MHz UHF3: 350~400MHz	RF Power Output	VHF High Power: 5W VHF Low Power: 1W UHF1/UHF3 High Power: 4W UHF1/UHF3 Low Power: 1W
Channel Capacity	32	FM Modulation	11KΦF3E @ 12.5 kHz 14KΦF3E @ 20 kHz 16KΦF3E @ 25 kHz
Zone Capacity	3 (each with a maximum of 16 channels)	4FSK Digital Modulation	2.5kHz Data Only: 7K6ΦFXD 12.5kHz Data & Voice: 7K6ΦFXW
Channel Spacing	25 /20/12.5 KHz	Conducted/Radiated Emission	-36dBm < 1GHz -30dBm > 1GHz
Operating Voltage	7.4V (rated)	Modulation Limiting	±2.5kHz @ 12.5 kHz ±4.0kHz @ 20 kHz ±5.0kHz @ 25 kHz
Battery	2000mAh (Li-Ion)	FM Noise	40dB @ 12.5 kHz 43dB @ 20 kHz 45dB @ 25 kHz
Battery Life (5-5-90 Duty Cycle, High TX Power) High-capacity 2000mAh Li-Ion Battery	Analog: Above 10.5 Hours Digital: Above 14 Hours	Adjacent Channel Power	60dB @ 12.5 kHz 70dB @ 20/25kHz
Frequency Stability	± 1.5ppm	Audio Response	+1 ~ -3dB
Antenna Impedance	50Ω	Audio Distortion	≤ 3%
Dimensions (H*W*D) (with standard battery, without antenna)	25*55*35 mm / 4.921*2.165*1.378 inch	Digital Vocoder Type	AMBE++ or SELP
Weight (with antenna & standard battery)	335g / 0.74lb	Digital Protocol	ETSI-TS102 361-1, 2&3
Front Case	PC	Environmental Specifications	
Receiver		Operating Temperature	-30°C ~ +60°C
Sensitivity (Analog)	0.3 μV (12dB SINAD) 0.22μV (Typical) (12dB SINAD) 0.4 μV (20dB SINAD)	Storage Temperature	-40°C ~ +85°C
Sensitivity (Digital)	0.3 μV / BER5%	ESD	IEC 61000-4-2 (level 4) ±8kV (contact) ±15kV (air)
Selectivity TIA-603 ETSI	60dB @ 12.5 kHz / 70dB @ 20/25 kHz 60dB @ 12.5 kHz / 70dB @ 20/25 kHz	American Military Standard	MIL-STD-810 C/D/E/F
Intermodulation TIA-603 ETSI	70dB @ 12.5/20/25 kHz 65dB @ 12.5/20/25 kHz	Dust & Water Intrusion	IP57 Standard
Spurious Response Rejection TIA-603 ETSI	70dB @ 12.5/20/25 kHz 70dB @ 12.5/20/25 kHz	Humidity	Per MIL-STD-810 C/D/E/F Standard
S/N	40dB @ 12.5 kHz 43dB @ 20 kHz 45dB @ 25 kHz	Shock & Vibration	Per MIL-STD-810 C/D/E/F Standard
Rated Audio Power Output	0.5W	All Specifications are tested according to applicable standards, and subject to change without notice due to continuous development.	
Rated Audio Distortion	≤ 3%	Applicable Military Standards	
Audio Response	+1 ~ -3dB	Method	Procedure
Conducted Spurious Emission	< -57 dBm	810C	810D
GPS (For PD702G Only)		810E	810F
TTFF (Time To First Fix) Cold Start	< 1 minute	500.1	500.2
TTFF (Time To First Fix) Hot Start	< 10 seconds	501.1	501.2
Horizontal Accuracy	< 10 meters	502.1	502.2
		503.1	503.2
		505.1	505.2
		506.1	506.2
		507.1	507.2
		509.1	509.2
		510.1	510.2
		514.2	514.3
		516.2	516.3

Applicable Military Standards

Standard	810C	810D	810E	810F
Low Pressure	500.1 I	500.2 I, II	500.3 I, II	500.4 II
High Temperature	501.1 I, II	501.2 I, II	501.3 I, II	501.4 I, II
Low Temperature	502.1 I	502.2 I, II	502.3 I, II	502.4 I, II
Temperature Shock	503.1 I	503.2 I	503.3 I	503.4 I
Solar Radiation	505.1 I	505.2 I	505.3 I	505.4 I
Rain	506.1 II	506.2 II	506.3 I, II	506.4 I, II
Humidity	507.1 II	507.2 II, III	507.3 II, III	507.4 I
Salt Fog	509.1 I	509.2 I	509.3 I	509.4 I
Sand & Dust	510.1 I	510.2 I	510.3 I	510.4 I
Vibration	514.2 VIII, X	514.3 I	514.4 I	514.5 I/24
Shock	516.2 I, II, V	516.3 I, IV	516.4 I, IV	516.5 I, IV



PD702/PD702G

Versatile Digital Portable Two-Way Radio



As a product built to the DMR standard, PD702/702G (PD702G is the model with GPS) is endowed with ergonomic design, all-round digital functions and remarkable quality to refresh your experience and enable you to be responsive to emergent situations.



- Superior Digital Voice
- Submersible with IP57 Rating



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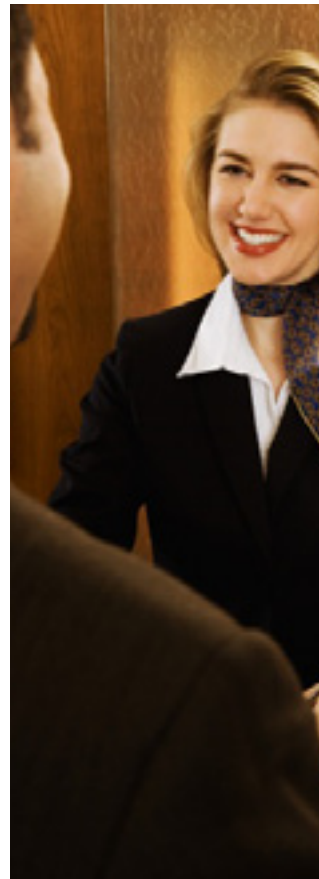
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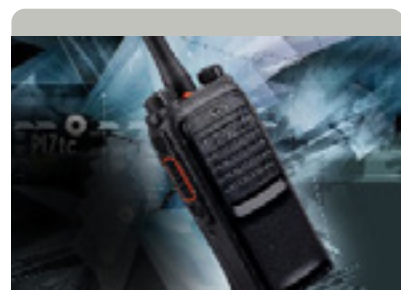
Main Functions >>

- ▶ **Dual Modes (Analog+Digital)**
PD702/702G can operate in either analog or digital mode. It is compatible with the prevalent analog system, ensuring a smooth analog-to-digital transition.
- ▶ **Versatile Voice Calls**
Intelligent signaling of PD702/702G supports various voice call types, including Private Call, Group Call and All Call.
- ▶ **Vibrate**
This feature is helpful in alerting you to reception of any voice under noisy or low-volume conditions.
- ▶ **IP Service***
PD702/702G allows multiple IP functions if connected with a PC via IP address.
- ▶ **Various Analog Signaling Types**
PD702/702G supports various analog signaling types (HDC1200, DTMF*, 2-Tone* and 5-Tone*), providing higher function expansion capacity.
- ▶ **Software Upgradable**
With this capability, you can enjoy further features without buying a new machine.

* Indicates functions available in later version.

Industrial Design Features >>

Product Features >>



Ergonomic Design

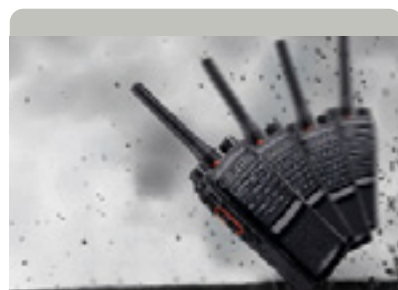
The globally patented industrial design and antenna design ensure convenient operation and remarkable GPS performance.

Reliable Quality

PD702/702G is strictly compliant with MIL-STD-810 C/D/E/F and IP57 standards, ensuring outstanding performance even under harsh environments.

Superior Voice

With the combined application of narrowband codec and digital error-correction technologies, PD702/702G is capable of ensuring you superior voice under noisy environments or at the edge of the coverage area. In addition, the adoption of the AGC technology also optimizes your voice. With a built-in 1W speaker, PD702/702G ensures clear and crisp voice communication.



Durable Battery

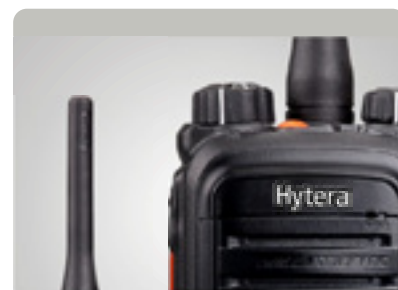
Compared with an analog radio, PD702/702G can obtain an extra 40% operation time.

Higher SpectruEfficiency, Higher Channel Capacity

Benefiting from the TDMA technology, PD702/702G allows twice the channels based on the same spectrum resource. This is a big help to relieve the stress of increasing shortage in spectrum resource.

Dual-slot Pseudo Trunking

With this feature, the free slot can be allocated to a member that needs to communicate, effectively enhancing frequency efficiency and allowing you to communicate timely under emergent situations.



Secure Communication

Besides the intrinsic encryption of the digital technology, PD702/702G provides enhanced encryption capability (such as 256-bit encryption algorithm) and the Scrambler feature (selectable).

Versatile Services

In addition to conventional communication services, PD702/702G features rich data services and selectable functions such as Scan, Emergency, Man Down (optional), High-speed Data Transmission* and Lone Worker*.

Further Development Port

The reserved port in PD702/702G allows users or any third party to further develop other helpful functions (GPS, Call Control and Telemetry).

* Indicates functions available in later version.

