

Standard Accessories

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



Remote Speaker: Microphone (SP31) & IR LED
Earpiece with Co. MIC PTT: Transparent Acoustic Tube (EM)
Headset with In-Line Microphone (EH12)
Earhook with Co. MIC PTT: ESR10
Wind Protection System with Transparent Acoustic Tube (Design: SR12)
Six Unit Switching Power: PS7003
Carrying Case for 600mAh Battery (Material: PVCSE)
Programming Cable: USB Port1 PC38

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

Specifications

General		Transmitter																																																																																																																					
Frequency Range	VHF: 136-174MHz UHF: 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	11K @ F3E @ 12.5 kHz 14K @ F3E @ 20 kHz 16K @ F3E @ 25 kHz																																																																																																																				
Zone Capacity	3 (each with a maximum of 16 channels)	4FSK Digital Modulation	2.5kHz Data Only: 7K6 @ FXD 12.5kHz Data & Voice: 7K6 @ FXW																																																																																																																				
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	46dB @ 12.5 kHz 43dB @ 20 kHz 45dB @ 25 kHz																																																																																																																				
Battery Life (3-5.0 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 /4.9*2.2*1.4inch	Digital Vocoder Type	AMBE++ or SELP																																																																																																																				
Weight (with standard & 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) 0.22 μV (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.																																																																																																																					
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TTF (Time to First Fix) Cold Start	<1 minute																																																																																																																						
TTF (Time to First Fix) Hot Start	<10 seconds																																																																																																																						
Horizontal Accuracy	<10 meters																																																																																																																						



PD705/PD705G

Versatile Digital Portable Two-Way Radio



As a product built to the DMR standard, PD705/705G (PD705G 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

Higher Efficiency Richer Experience



Product Features



Ergonomic Design

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

Reliable Quality

PD705/705G 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, PD705/705G 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, PD705/705G ensures clear and crisp voice communication.



Durable Battery

Compared with an analog radio, PD705/705G can obtain an extra 40% operation time.

Higher SpectruEfficiency, Higher Channel Capacity

Benefiting from the TDMA technology, PD705/705G 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, PD705/705G provides enhanced encryption capability (such as 256-bit encryption algorithm) and the Scrambler feature (selectable).

Versatile Services

In addition to conventional communication services, PD705/705G features rich data services and selectable functions such as Scan, Emergency, Man Down (optional), High-speed Data Transmission* and LoneWorker*.

Further Development Port

The reserved port in PD705/705G allows users or any third party to further develop other helpful functions (GPS, Call Control and Telemetry).

* indicates functions available in later version.

Main Functions

- ▶ **Dual Modes (Analog+Digital)**
PD705/705G 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 PD705/705G 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***
PD705/705G allows multiple IP functions if connected with a PC via IP address.
- ▶ **Various Analog Signaling Types**
PD705/705G 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

