

PD5 Series

Digital Portable Radio





PD5 Series The PD5 Series is an open-standard DMR radio capable of providing quality voice communication in a design approved to IP54 and MIL-STD 810 testing. The Hytera-patented pseudotrunking maximizes channel usage and the long lasting battery life yields approximately 16 hours under a 5-5-90 duty cycle in digital mode. The PD5 Series is the ideal solution for organizations looking for a cost-effective way to migrate to clear digital communication.

Applications

Hotel

Education Security Warehouse Retail Events

Security Warehouse Retail Events

SECURITY

Product Features

Smaller, Sleeker, Lighter

The PD502 is 4.53 x 2.13 x 1.06 inches, weighing 9.7oz. The PD562 is 4.53 x 2.13 x 1.18 inches, weighing 9.9oz. The PD5 Series has dualcolor injection molding.

Long Battery Life

In digital mode, the PD5 Series can operate for approximately 16 hours under a duty cycle of 5-5-90.

Rugged & Reliable

Complies with MIL-STD-810 C/D/E/F/G standards and is IP54 (5: Generally protected against dust; 4: Protected against the effects of light rain or minor water splashes) ensuring outstanding performance.

Advanced Signaling

Supports multiple advanced analog signaling modes, including HDC1200, 2-Tone and 5-Tone, providing better integration into existing analog radio fleets.

Secure Communication

Provides basic digital encryption and Scrambler feature in analog

DMRA Data Service

The data protocol is fully compliant to the DMRA standard.

One Touch Call/Text

Supports One Touch features that include Preprogrammed Text Messages, Voice Calls and Supplementary Features.

Supplementary Features (Option License)

The PD5 Series can decode Radio Enable, Radio Disable, and Remoter Monitor, as well as Priority Interrupt.

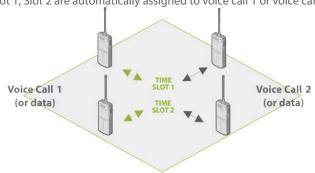
Dual Mode: Analog & Digital

Dual modes operation allows the programming of both analog to digital migration.

Pseudo Trunk

This virtual trunking feature allocates a free timeslot for urgent communications. This effectively enhances frequency efficiency and allows you to communicate in a timely manner in emergency situations. See example below.

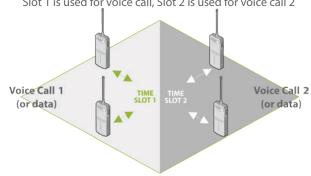
Slot 1, Slot 2 are automatically assigned to voice call 1 or voice call 2



DMO True 2-Slot

In direct mode Hytera can provide 2-slot communication, which allows for 2 talk paths on 1 frequency. See example below.

Slot 1 is used for voice call, Slot 2 is used for voice call 2



Accessories

Included

- Li-lon Battery
- MCU Rapid-rate Charger
- Power Adapter
- Antenna
- Belt Clip
- Leather Strap



Remote Speaker Microphone (IP55) SM13M1



MCU Multi Unit Charger (for Thick Batteries) MCA08



Programming Cable (USB Port) PC63



Battery 2000mAh (Li-lon) BL2010

Specifications

	Frequency Range		VHF: 136 - 174MHz UHF: 400 - 470MHz		
	Channel Capacity	PD502	32		
		PD562	512		
	Zone Capacity	PD502	3		
		PD562	32		
	Channel Spacing		25 / 20 / 12.5KHz		
	Operating Voltage		7.4V		
	Battery		1500mAh (Li-lon)		
eral	Battery Life (5/5/90)	Analog	Approx. 11hrs		
General		Digital	Approx. 16hrs		
	Frequency Stability		±0.5ppm		
	Antenna Impedance		50 Ω		
	Dimensions	PD502	4.53 x 2.13 x 1.06 inches		
	(HxWxD)	PD562	4.6 x 2.17 x 1.18 inches		
	Weight	PD502	9.17oz		
		PD562	9.9oz		
	FCC ID	S	See website for full list		
	Industry Canada ID	S	See website for full list		
Su	Operating Temperature		-22° F ~ +140° F		
catio	Storage Temperature		-40° F∼ +185° F		
Environmental Specifications	ESD		IEC 61000 - 4 - 2 (level 4) ± 8kV(contact) ; ± 15kV (air)		
	American Military Standard		MIL-STD-810 C/D/E/F/G		
	Dust & Water Intrusion		IP54 Standard		
	Humidity	Per MIL-	Per MIL-STD-810 C/D/E/F/G Standard		
	Shock & Vibration	Per MIL-	Per MIL-STD-810 C/D/E/F/G Standard		
GPS	TTFF (Time To First Fix) Cold Start		<1 minute		
	TTFF (Time To First Fix) Hot Start		<10 seconds		
	Horizontal Accuracy		<10 meters		

Transmitter	RF Power Output	VHF: High 5W - Low 1W UHF: High 4W - Low: 1W	
	FM Modulation (Analog Emissions Designator)	11К фF3E @ 12.5KHz ; 14КфF3E @ 20KHz ; 16КфF3E @ 25KHz	
	4FSK Digital Modulation (Digital Emissions Designator)	12.5KHz Data Only: 7К6фFXD 12.5KHz Data & Voice: 7К6фFXW	
	Conducted/Radiated Emission	-36dBm<1GHz -30dBm>1GHz	
	Modulation Limiting	± 2.5KHz @ 12.5KHz ; ±4.0KHz @ 20KHz ; ± 5.0KHz @ 25KHz	
	FM Hum & Noise	40dB @ 12.5KHz ; 43dB @ 20KHz ; 45dB @ 25KHz	
	Adjacent Channel Power	60dB @ 12.5KHz 70dB @ 20/25KHz	
	Audio Response	+1 ~ -3dB	
	Audio Distortion	≤3%	
	Digital Vocoder Type	AMBE++ or SELP	
	Digital Protocol	ETSI-TS102 361-1, 2&3	

Receiver	Sensitivity	Analog	0.22 μ V (12dB SINAD) ; 0.22 μ V (Typical) (12dB SINAD); 0.4 μ V (20dB SINAD)
		Digital	0.22 μ V/BER5%
	Selectivity TIA-603 ETSI	60dB @ 12.5KHz / 70dB @ 20/25KHz 60dB @ 12.5KHz / 70dB @ 20/25KHz	
	Intermodulation TIA-603 ETSI	70dB @ 12.5/20/25KHz 65dB @ 12.5/20/25KHz	
	Spurious Response Rejection TIA-603 ETSI	70dB @ 12.5/20/25KHz 70dB @ 12.5/20/25KHz	
	S/N	40dB @ 12.5KHz ; 43dB @ 20KHz ; 45dB @ 25KHz	
	Rated Audio Power Output	0.5W	
	Rated Audio Distortion	≤3%	
	Audio Response	+1 ∼ -3dB	
	Conducted Spurious Emission		< -57dBm

Your Local Dealer

 $20 \text{KHz}\,/\,25 \text{KHz}$ will not be available on new equipment in the U.S. after January 1^{st} , 2011

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