

SERIES PD402i

PD402i DMR Two-Way UHF/VHF Radios

Hytera PD402i UHF and VHF two-way DMR radios provide reliable and easy-to-use radio communications.

Hytera

PD402i

- Audio equalizer and digital audio for loud and clear voice calls
- Compliant with the DMR standard and supports double channel capacity
- Functions in digital and analog modes
- + IP55 rated and compliant with MIL-STD-810 G $\,$
- Cost-effective with advanced features





PD402i Key Features

🖌 ERGONOMIC AND EASY TO USE

• Tactile buttons for no-look PTT and emergency calling

🛢, HIGH-QUALITY AUDIO

- Audio equalizer adjusts low, mid, and high frequency gain
 - Provides high-quality digital audio performance with loud and clear private calling, group calling, and all call

LONG-LIFE BATTERY

- Powerful Li-Ion 1500mAh battery
- Delivers up to 16 hours of operation in digital mode and 12 hours in analog mode

RELIABLE AND DURABLE

- IP55 rated for water and dust ingress and compliant with MIL-STD-810-G for impact strength and durability
- -22°F to +140°F (-30°C to +60°C) operating temperature

• Emergency Alarms can be sent to other radios via the one touch programmable button

ANALOG & DIGITAL AUTO DETECT

- Simultaneously monitors analog and digital modes and automatically responds in each mode
- Enables simple and cost-effective migration to digital

PRE-PROGRAMMED TEXT MESSAGING

- One-touch sending of pre-programmed text messages
- · Stores up to ten pre-defined text messages

- Voice activated communications (VOX) activates the microphone by speaking to enable hands-free operation
- Also supported on external earpiece and microphone accessories

UPGRADE FEATURES (Optional)

- Encryption for secure audio and data
- Priority Interrupt allows dispatcher to interrupt existing calls with important emergency information
- Remote Monitor allows dispatcher to key the PTT button and listen in an emergency situation
- Stun/Revive enables dispatch and other users to disable/enable a radio if it is stolen, lost, or used maliciously

SYSTEMS AND NETWORK FEATURES

- Roaming allows radios to seamlessly move between connected repeaters with non-stop voice transmission
- Pseudo Trunk is a virtual trunking feature that automatically uses whichever digital timeslot is free to improve call connectivity and frequency efficiency
- The PD402i can be deployed on DMR Tier II systems
- Radio Registration Service (RRS) allows the PD402i to communicate with dispatch and unified communications applications

Standard Accessories





BL1504 1500mAh Li-Ion Battery



Drop-In Single Unit Charger

BC08

Belt Clip



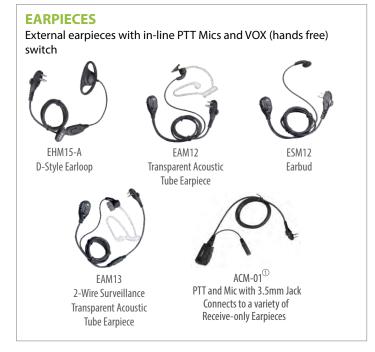
CH10A07

R003 Nylon Hand Strap



Power Adapter Input: 100-240VAC Output: 12VDC/1A

Optional Accessories



REMOTE SPEAKER MICROPHONES

Remote Speaker Mics provide easy access for audio, are IP rated for water resistance, and have audio jacks for receive only earpieces.



IP54 Rated

3.5mm audio jack



 $\mathrm{SM13M1}^{(1)}$ Noise Cancelling with High / Low Speaker Volume IP55 Rated, 3.5mm audio jack



IP54 Rated 2.5mm audio jack





0 Features 2.5mm jack for receive-only EAS03 Acoustic Tube Earpiece, EHS18 Earloop Earpiece, and ESS10 Earbud

① Features 3.5mm jack for receive-only ES01 Earbud, ES02 Acoustic Tube Surveillance Earpiece, EH01 C-Style Earpiece, and EH02 Swivel C-Style Earpiece

Specifications

	General	
Frequency Range	UHF 400-470MHz VHF 136-174MHz	
Channel Capacity	256 Channels (128 Analog, 128 Digital)	
Zone Capacity	3 Zones with 16 Channels per Zone	
Channel Spacing	25/12.5kHz	
Operational Voltage	7.4W	
Battery	1500mAh (Li-Ion) Standard, 2000mAh Optional	
Battery Life (5/5/90)	1500mAh: 16 hours Digital, 12 hours Analog 2000mAh: 22 hours Digital, 16 hours Analog	
Weight	9.5oz (270g)	
Dimensions	4 13/32" x 2 1/8" x 1 3/32" (112 x 55 x 28mm)	
Frequency Stability	±0.5ppm	
Antenna Impedance	50Ω	
Receiver		
Digital Sensitivity	0.22µV (BER 5%)	
Analog Sensitivity	0.22μV (Typical) (12dB SINAD) 0.4μV (20dB SINAD) 0.22μV (12dB SINAD)	
Adjacent Selectivity	TIA-603: 60dB @ 12.5kHz, 70dB @ 25kHz ETSI: 60dB @ 12.5kHz, 70dB @ 25kHz	
Spurious Response Rejection	TIA-603: 70dB @ 12.5/25kHz ETSI: 70dB @ 12.5/25kHz	
Intermodulation	TIA-603: 70dB @ 12.5/25kHz ETSI: 65dB @ 12.5/25kHz	
Hum and Noise	40dB @ 12.5kHz, 45dB @ 25kHz	
Rated Audio Power Output	0.5W	
Rated Audio Distortion	≤3%	
Audio Response	+1 to -3dB	

Transmitter	
RF Power Output	VHF High Power: 5W VHF Low Power: 1W UHF High Power: 4W
	UHF Low Power: 1W
FM Modulation	11K0F3E @ 12.5kHz 16K0F3E @ 25kHz
4FSK Digital Modulation	12.5kHz Data Only: 7K60FXD 12.5kHz Data and Voice: 7K60FXW
Conducted/Radiated Emission	-36dBm <1GHz, -30dBm >1GHz
Modulation Limiting	±2.5kHz @ 12.5kHz ±5.0kHz @ 25kHz
FM Hum and Noise	40dB @ 12.5kHz, 45dB @ 25kHz
Adjacent Channel Power	60dB @ 12.5kHz, 70dB @ 25kHz
Audio Response	+1 to -3dB
Audio Distortion	≤3%
Digital Vocoder Type	AMBE++
Digital Protocol	ETSI-TS102 361-1,-2,-3
Environmental	
Operating Temperature	-22°F to +140°F (-30°C to +60°C)
Storage Temperature	-40°F to +185°F (-40°C to +85°C)
ESD	IEC 61000-4-2 (Level 4) ±8kV Contact, ±15kV Air
Dust and Water Ingress	IP55 Standard
Humidity	Per MIL-STD-810 C/D/E/F/G Standard
Shock and Vibration	Per MIL-STD-810 C/D/E/F/G Standard

Ordering Information

Part Number	Description
PD402i-V1	VHF 136-174MHz, 1-5W Power
PD402i-U1	UHF 400-470MHz, 1-4W Power

All specifications are subject to change without notice due to continuous development.



MYRO Inc.

301 Enterprise St. Ste. 2 Escondido, CA 92029 (615)763-3430 www.myradiooutlet.com myro@edgetechinc.com





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