



**i** 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.

- 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

### ANALOG AND DIGITAL OPERATION

- The PD402i operates in analog or digital mode
- Allows switching between the two modes for communication with analog radios
- Enables a simple and cost-effective migration path from analog to digital

### 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 CALLING

- One-touch Emergency Alarms can be sent to other radios with the programmable button
- Improves worker safety and emergency response time

### PRE-PROGRAMMED TEXT MESSAGING

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

### VOX

- 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
- 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

- The PD402i can be deployed on DMR Tier II systems
- 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
- Radio Registration Service (RRS) allows the PD402i to communicate with dispatch and unified communications applications

# Standard Accessories



Stubby Antenna



BP1503  
1500mAh Lithium polymer  
Battery



BC08  
Belt Clip



CH10A07  
Drop-In Single Unit Charger



R003  
Nylon Hand Strap



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

# Optional Accessories

## EARPIECES

External earpieces with in-line PTT Mics and a VOX (hands free) switches



EH-01  
Receive-only C-Style  
Earpiece



EH-02  
Receive-only Swivel  
C-Style Earpiece



ES-01  
Receive-only Earbud



EA-01  
Receive-Only Earpiece with  
Transparent Acoustic Tube



ACM-01<sup>①</sup>  
PTT Mic with 3.5mm Jack  
Connects to Receive-only Earpieces



EHM18-A  
C-Style Earpiece  
with PTT Mic and VOX



EHM15-A  
D-Style Earpiece  
with PTT Mic and VOX



EAS03  
Receive-Only Transparent  
Acoustic Tube Earpiece

## 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.



SM50M1<sup>①</sup>  
IP54 Rated  
3.5mm audio jack



SM26M1<sup>②</sup>  
IP54 Rated  
2.5mm audio jack

## POWER AND CHARGING



CHV09  
Vehicle Adapter  
(Input: 11-25V DC,  
Output: 12V DC & 1A)



BL2010  
2200mAh Li-Ion Battery  
Provides 22 hours operation  
in Digital Mode (16 Analog)



MCL39  
Multi-unit Charger  
with Power Supply

## OTHER ACCESSORIES



PC76  
Data Programming Cable



NCN011  
Nylon Carrying Jacket



AN0435W09<sup>③</sup>  
400-470MHz UHF Antenna  
AN0160H13  
146-174MHz VHF Antenna

<sup>①</sup> Features 3.5mm jack for receive-only ES-01 Earbud, EA-01 Acoustic Tube Surveillance Earpiece, EH-01 C-Style Earpiece, and EH-02 Swivel C-Style Earpiece

<sup>②</sup> Features 2.5mm jack for receive-only EAS03 Acoustic Tube Earpiece, EHS18 C-Style Earpiece, and EHS17 Swivel C-Style Earpiece

<sup>③</sup> AN0435H13: 400-470MHz, 9cm AN0141H06: 136-147MHz, 17cm AN0167H06: 160-174MHz, 17cm AN0153H08: 147-160MHz/1575MHz, 12cm  
AN0435W09: 400-470MHz, 16cm AN0153H07: 147-160MHz, 17cm AN0160H13: 146-174MHz, 15cm AN0167H07: 160-174MHz/1575MHz, 12cm

# Specifications

| General                     |  |
|-----------------------------|--|
| Frequency Range             | UHF 400-470MHz<br>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         | 7.4V   |
| Battery                     | 1500mAh (Li-Ion) Standard, 2000mAh Optional  |
| Battery Life (5/5/90)       | 1500mAh: 16 hours Digital, 12 hours Analog<br>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)<br>0.4µV (20dB SINAD)<br>0.22µV (12dB SINAD)               |
| Adjacent Selectivity        | TIA-603: 60dB @ 12.5kHz, 70dB @ 25kHz<br>ETSI: 60dB @ 12.5kHz, 70dB @ 25kHz              |
| Spurious Response Rejection | TIA-603: 70dB @ 12.5/25kHz<br>ETSI: 70dB @ 12.5/25kHz                                    |
| Intermodulation             | TIA-603: 70dB @ 12.5/25kHz<br>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   |
| Conducted Spurious Emission | <-57dBm  |

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

| Transmitter                 |  |
|-----------------------------|--|
| RF Power Output             | VHF High Power: 5W<br>VHF Low Power: 1W<br>UHF High Power: 4W<br>UHF Low Power: 1W |
| FM Modulation               | 11K0F3E @ 12.5kHz<br>16K0F3E @ 25kHz   |
| 4FSK Digital Modulation     | 12.5kHz Data Only: 7K60FXD<br>12.5kHz Data and Voice: 7K60FXW                      |
| Conducted/Radiated Emission | -36dBm <1GHz, -30dBm >1GHz   |
| Modulation Limiting         | ±2.5kHz @ 12.5kHz<br>±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)<br>±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 |



### Hytera US Inc

8 Whatney, Suite 200, Irvine, CA 92618

1363 Shotgun Road, Sunrise, FL 33326

(954) 846-1011

[www.hytera.us](http://www.hytera.us)

[info@hytera.us](mailto:info@hytera.us)



Hytera® is a trademark of Hytera

© 2025 Hytera US Inc. All Rights Reserved.

Hytera retains right to change the product design and specification.

Hytera\_PD402i-DS-E 8/25