

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

K ERGONOMIC AND EASY TO USE

• Tactile buttons for no-look PTT and emergency calling

A/D 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 $+140^{\circ}$ F (-30° C to $+60^{\circ}$ 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

🕠 νοχ

- 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





BP1503

1500mAh Lithium polymer

Battery



BC08 Belt Clip



CH10A07 Drop-In Single Unit Charger

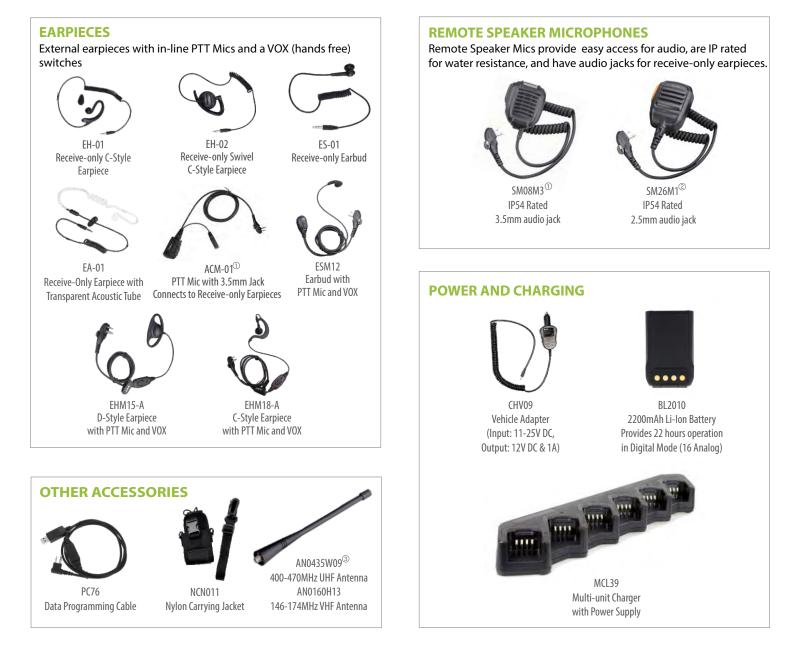


Nylon Hand Strap

1

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

Optional Accessories



^① 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 ^② Features 2.5mm jack for receive-only EAS03 Acoustic Tube Earpiece, EHS18 C-Style Earpiece, and EHS17 Swivel C-Style Earpiece

⁽³⁾AN0435H13:400-470MHz,9cm AN0141H06:136-147MHz,17cm AN0167H06:160-174MHz,17cm AN0153H08:147-160MHz/1575MHz,12cm AN0163H09:400-470MHz,16cm AN0153H07:147-160MHz,17cm AN0160H13:146-174MHz,15cm AN0167H07:160-174MHz/1575MHz,12cm

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	7.4V	
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	
Conducted Spurious Emission	<-57dBm	

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.



Hytera US Inc 8 Whatney, Suite 200, Irvine, CA 92618 (954) 846-1011

1363 Shotgun Road, Sunrise, FL 33326 (954) 846-1011

www.hytera.us info@hytera.us



Hytera is a trademark of Hytera © 2024 Hytera US Inc. All Rights Reserved. Hytera retains right to change the product design and specification. PD4021-DS-D 6/24