





# 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  ${\sf G}$
- 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-lon 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
- $-22^{\circ}$ F to  $+140^{\circ}$ F ( $-30^{\circ}$ C to  $+60^{\circ}$ C) operating temperature



## **EMERGENCY ALARM**

· 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



**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
- 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**



**OTHER ACCESSORIES** 

Vehicle Adapter

(Input: 11-25V DC,

Output: 12V DC & 1A)

# **Optional Accessories**







BL2010

2200mAh Li-Ion Battery

Provides 22 hours operation

in Digital Mode (16 Analog)

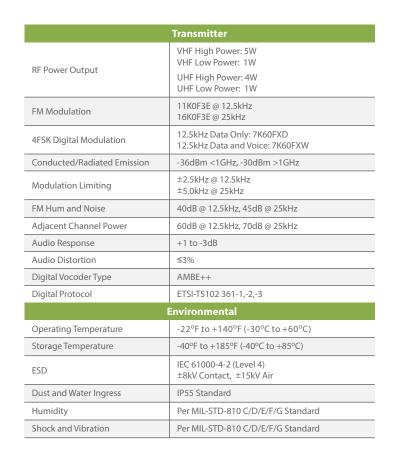
① Features 3.5mm jack for receive-only ES01 Earbud, ES02 Acoustic Tube Surveillance Earpiece, EH01 C-Style Earpiece, and EH02 Swivel C-Style Earpiece

 $<sup>\</sup>ensuremath{@}$  Features 2.5mm jack for receive-only EAS03 Acoustic Tube Earpiece, EHS18 Earloop Earpiece, and ESS10 Earbud

# **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
Conducted Spurious Emission	<-57dBm

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



# **Ordering Information**

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



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