



## PD482i UHF/VHF Two-Way DMR Radio

The PD482i is a cost-effective two-way radio with advanced features:

- Functions in digital and analog modes in radio-to-radio calls, or with any Hytera repeater or base station
- Rugged and ergonomic design with full keypad, high contrast OLED screen, and programmable buttons
- Built-in GPS and Bluetooth, emergency calling, and voice activated communications (VOX)
- Supports Tier II radio networks, pseudo trunking, and Radio Registration Service for connectivity to dispatch applications





## PD482i Key Features



### ERGONOMIC AND EASY TO USE

- Tactile buttons for no-look PTT and emergency calling
- High contrast OLED screen, full keypad, and three programmable buttons
- Dual band antenna supports UHF or VHF



### HIGH QUALITY AUDIO

- Audio equalizer adjusts low, mid, and high frequency gain
- Provides the best audio performance in noisy or quiet environments



### LONG-LIFE BATTERY

- Powerful Li-Ion 2000mAh battery
- Delivers up to 22 hours of operation in digital mode and 16 hours in analog mode



### RELIABLE AND DURABLE

- Compliant with MIL-STD-810 G for impact strength and durability, and IP54 water and dust ingress
- -22°F to +140°F (-30°C to +60°C) operating temperature



### EMERGENCY ALARMS AND CALLING

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



### ANALOG & DIGITAL AUTO DETECT

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



### ENCRYPTION

- Ensures private and secure voice and data transmission



### REAL TIME CLOCK

- Real-time display, call logs, GPS synchronization, and messaging



### TEXT MESSAGING

- Free-form text messaging with full keypad
- Stores up to ten pre-defined text messages



### GPS POSITIONING

- The built-in GPS enables real-time location tracking for dispatch applications (only on PD482i-G-BT models)



### BLUETOOTH

- Built-in Bluetooth enables connectivity to earpieces and other wireless accessories (only on PD482i-G-BT models)



### 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)

- 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

# Standard Accessories

## INCLUDED WITH THE PD482i



R003  
Nylon Hand Strap



BC08  
Belt Clip



Stubby Antenna



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



CH10A07  
Drop-In Single Unit  
Rapid-Rate Charger



BL2010  
2000mAh Li-Ion Battery

# Optional Accessories

## EARPIECES

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



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  
PTT Mic with 3.5mm Jack  
Connects to Receive-only Earpieces



ESM12  
Earbud with  
PTT Mic and VOX



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



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

## BLUETOOTH



POA121  
PTT Bluetooth Ring  
(attach to finger or handlebars)



ESW-01  
Bluetooth earpiece with charger  
(requires PS1030 power adapter)

# Systems and Network Features

## ROAMING

- Allows radios to seamlessly move between connected repeaters with uninterrupted voice transmission

## PSEUDO TRUNK

- This virtual trunking feature automatically uses whichever digital timeslot is free to improve call connectivity and frequency efficiency

## DMR TIER II

- The PD482i can be deployed on DMR Tier II systems

## RADIO REGISTRATION SERVICE

- RRS allows the PD482i to communicate with dispatch and unified communications applications

## 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.



SM08M3<sup>①</sup>  
IP54 Rated  
3.5mm audio jack



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

## CHARGERS AND OTHER ACCESSORIES



BP1503  
1500mAh Lithium polymer  
(Smaller and lighter than  
standard 2000mAh battery)



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



MCL39  
Multi-unit Charger  
with Power Supply



PC76  
Data programming cable



NCN011  
Nylon Carrying Jacket



AN0435W09  
400-470MHz  
Antenna

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 Earloop Earpiece, and EHS17 Earbud

# Specifications

General	
Frequency Range	UHF 350-470MHz, VHF 136-174MHz
Channel Capacity	256 Channels (128 Analog, 128 Digital)
Zone Capacity	16 Zones with 16 Channels per Zone
Channel Spacing	25/12.5kHz
Operational Voltage	7.4W
Battery	2000mAh (Li-Ion) Standard, 1500mAh Optional
Battery Life (5/5/90)	22 hours Digital, 16 Analog (Standard 2000mAh) 16 hours Digital, 11 Analog (Optional 1500mAh)
Weight	10.86oz (308g)
Dimensions	4 5/8" x 2 5/32" x 1 15/32" (117 x 55 x 37mm)
Frequency Stability	± 0.5ppm
Antenna Impedance	50Ω
GPS	
TTFF (Time to First Fix) Cold Start	<50 Seconds
TTFF (Time to First Fix) Hot Start	<5 Seconds
Horizontal Accuracy	<10 meters
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.



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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	IP45 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
PD482i-G-BT-Uv	UHF 350-470MHz (Antenna 400-470), 256CH, 4W, GPS, Bluetooth
PD482i-G-BT-V1	VHF 136-174MHz (Antenna 147-160), 256CH, 1-5W, GPS, Bluetooth
PD482i-Uv	UHF 350-470MHz (Antenna 400-470) 256CH, 4W
PD482i-V1	VHF 136-174MHz (Antenna 147-160) 256CH, 1-5W



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