



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

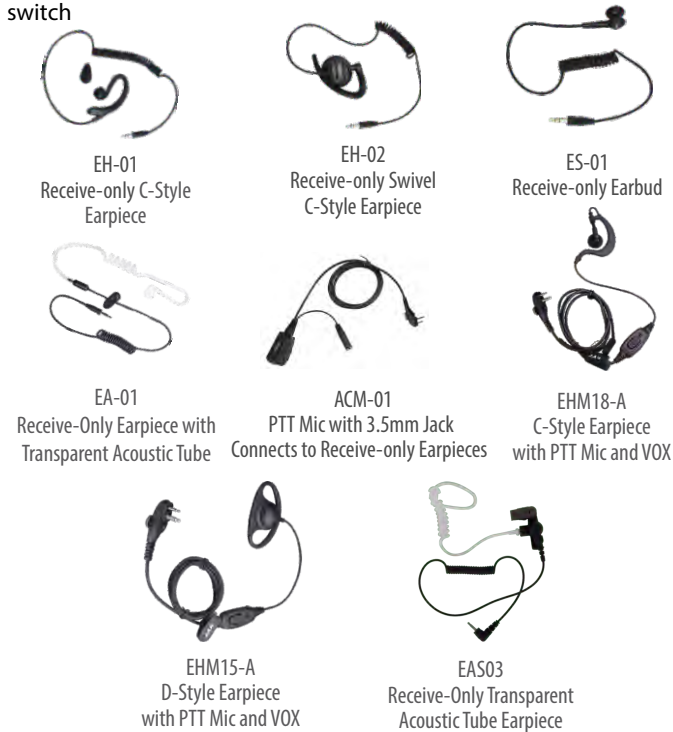
INCLUDED WITH THE PD482i



Optional Accessories

EARPIECES

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



BLUETOOTH



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

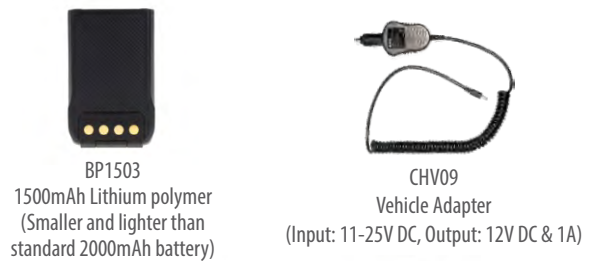
- RRS allows the PD482i to communicate with dispatch and unified communications applications

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.



CHARGERS AND OTHER 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 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.

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



Hytera US Inc

8 Whatney, Suite 200, Irvine, CA 92618

1363 Shotgun Road, Sunrise, FL 33326

(954) 846-1011

www.hytera.us

info@hytera.us



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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-01^①
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.



SM50M1^①
IP54 Rated
3.5mm audio jack



SM26M1^②
IP54 Rated
2.5mm audio jack

OTHER ACCESSORIES



PC76
Data Programming Cable




NCN011
Nylon Carrying Jacket




AN0435W09^③
400-470MHz UHF Antenna
AN0160H13
146-174MHz VHF Antenna


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

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
AN0435W09: 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
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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

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RF Power Output	VHF High Power: 5W VHF Low Power: 1W UHF High Power: 4W UHF Low Power: 1W
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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



Hytera US Inc
8 Whatney, Suite 200, Irvine, CA 92618
1363 Shotgun Road, Sunrise, FL 33326
(954) 846-1011
www.hytera.us
info@hytera.us



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