





PD362i Compact Two-Way DMR Radio

Hytera PD362i UHF 430-470MHz DMR radios provide reliable and easy-to-use communications.

The Hytera PD362i open-standard DMR radio delivers clear two-way voice and text in a small pocket-sized design. This is the ideal solution for small to medium-sized organizations looking for cost-effective and high-quality radio communications.

- Compact, pocket-sized radios that are easy to operate
- Powerful battery delivers up to 12 hour battery life
- Analog and digital modes for easy transition to digital
- Ruggedized to IP54 and MIL-STD-810 standards
- 256 Channels and 16 Zones



PD362i Key Features

ERGONOMIC AND LIGHTWEIGHT

- Tactile buttons for no-look PTT and emergency calling
- Compact antenna makes the PD362i feel like a cellular phone
- Pocket-size design that weighs less than 6 ounces

HIGH-QUALITY AUDIO

- Audio equalizer adjusts low, mid, and high frequency gain
- Provides high-quality digital audio performance with loud and clear Private Calls, Group Calls, and All Call

ANALOG AND DIGITAL DUAL MODES

- Supports both analog and digital modes
- Allows switching between the two operation modes for communication with analog radios

A/D ANALOG AND DIGITAL AUTO DETECT

- Detects the signal type and automatically switches between analog and digital mode
- Enables simple and cost-effective migration path to digital

RELIABLE AND DURABLE

- Compliant with MIL-STD-810-G for shock and vibration
- IP54 rated for water and dust resistance

LED LED DISPLAY

- LED display allows good visibility even under bright daylight
- Two-line display for messaging with up to 64 characters

LONG-LIFE BATTERY

 Powerful 2000mAh Lithium Ion batteries deliver up to 12 hours of operation in digital mode and 10 in analog mode

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• Enables sending and receiving Emergency Alarms and enhances worker safety

PRE-PROGRAMMED TEXT MESSAGING

- One-touch sending of pre-programmed text messages
- Stores up to ten pre-defined text messages of up to 64 characters

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- Voice activated microphone enables hands free operation
- Also supported on external earpiece and microphone accessories

SCANNING

 Allows listening to communication activities on other channels

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



Standard Accessories



Optional Accessories



OTHER ACCESSORIES





BC29 Belt Clip (for use with POA129 Contact-charge Battery Cover and CH10L24 Desktop Charger)

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 PD362i can be deployed on DMR Tier II systems

RADIO REGISTRATION SERVICE

• RRS allows the PD362i to communicate with dispatch and unified communications applications

General		
Frequency Range	UHF 430-470MHz	
Channel Capacity	256 Channels (128 Analog, 128 Digital)	
Zone Capacity	16 Zones with 16 Channels per Zone	
Channel Spacing	25/12.5kHz	
Operational Voltage	3.7W	
Battery	2000mAh (Li-lon)	
Battery Life (5/5/90)	12 hours Digital, 10 hours Analog	
Weight	5.64oz (160g)	
Dimensions	4 3/16" x 2 11/16" x 29/32" (106 x 55 x 23mm)	
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, 43db @ 20kHz, 45dB @ 25kHz	
Rated Audio Power Output	0.4W	
Rated Audio Distortion	≤5%	
Audio Response	+1 to -3dB	
Conducted Spurious Emission	<-57dBm	

	Transmitter	
RF Power Output	UHF 1.5W - 3W	
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	
M 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	IP54 Standard	
	Per MIL-STD-810 C/D/E/F/G Standard	
Humidity		

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





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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.

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

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- 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

	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

Transmitter		
RF Power Output	VHF High Power: 5W VHF Low Power: 1W	
Kr rower Output	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

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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

k 👗 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 $+140^{\circ}$ F (-30° C to $+60^{\circ}$ C) operating temperature

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- 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

• 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)

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- 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





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



BC08

CH10A07 **Drop-In Single Unit** Rapid-Rate Charger

Stubby Antenna



BL2010 2000mAh Li-Ion Battery

Optional Accessories



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

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	
Hum and Noise Rated Audio Power Output	40dB @ 12.5kHz, 45dB @ 25kHz 0.5W	
Rated Audio Power Output	0.5W	

	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	



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ENRICHING YOUR DIGITAL EXPERIENCE NEW MEMBER TO WORLD'S MOST COMPLETE DMR PORTFOLIO PD982 PSERIES

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Features

Base Information

- Full Keypad, Color Screen, 1024 Channels
- Analog and Digital Dual Mode
- o Bluetooth (4.0) Audio
- Bluetooth (4.0) Data
- Integrated GPS
- Integrated GLONASS
- Pre-programmed Text Messaging
- Freeform Text Messaging
- Option Board
- Roaming
- Scan
- Voice Notification

Safety

- Emergency Alarm
- Dedicate Emergency Button
- Alert Call
- Man Down
- Lone Worker
- Basic Encryption
- Enhanced Encryption(40bit)
- Enhanced Encryption(128/256bit)
- Multiple Key Encryption
- Priority Interrupt
- Remote Monitor
- Radio Enable/Disable
- Radio Check
- IP68 Dust and Waterproof
- Vibration
- GPS SMS
- GPS Location check

Systems

- Ana og Conventional
- DMR Conventional
- IP Site Connect
- o MPT-1327
- DMR Simulcast System
- XPT Trunking
- DMRTrunking

Advance Features

- Pseudo Trunk
- Telemetry
- Rent
- Phone Interconnect
- Full Duplex Call (DMR Tier 3 System)
- Full Duplex Call (DMR Conventional System)
- Single Frequency Repeater Mode*
- Micro SD Card *
- Smart Battery
- RTC Clock

Audio

- Auto Gain Control
- Acoustic Feedback Suppressor
- Multi Band Equalization
- Noise Reduction Technology

Notes

- * These features require a license key to activate
- Standard feature
- Optional feature



	Frequency Range		136-174MHz, 350-520MHz, 806-941M
	Channel Capacity		1024
	Zone Capacity		64 (maximum of 128 channels per zone)
	Channel Spacing		12.5KHz / 20KHz / 25KHz
	Operating Voltage		7.4V (rated)
	Battery		2000mAh (Li-Ion)
General	Battery Life (5-5-90 Duty Cycle, High TX Power) High-capacity 2000mAh Li-lon Battery		Analog:14.5h Digital: 19.5h
	Frequency Stability		±0.5ppm
	Antenna Impedance		50Ω
	Dimensions (H×W×D) (with standard battery, without antenna)		131 X 54.5 X 36mm
	Weight (with antenna & standard battery)		12 oz.
	LCD Display		160×128 pixels, 65535 colors 1.8 inch, 4 rows
	Sensitivity	Analog	0.22µV
		Digital	0.22 µ V /BER5%
	Selectivity TIA-603 ETS C		60dB @ 12.5KHz / 70dB @ 20/25KHz 60dB @ 12.5KHz / 70dB @ 20/25KHz
	Spurious Response Rejection TIA-603 ETSI C		70dB @ 12.5/20/25KHz 70dB @ 12.5/20/25KHz
Receiver	Blocking TIA-603 ETSI		84dB
	Hum and Noise		40dB @ 12.5KHz; 43dB @ 20KHz; 45dB @ 25KHz
	Rated Audio Power Output		0.5W
	Rated Audio Distortion		≤3%
	Audio Response		+1 ~ -3dB
	Conducted Spurious Emission		< -57dBm

	RF Power Output	UHF High Power: 4W; UHF Low Power: 1W
	FM Modulation	11K0F3E @ 12.5KHz 14K0F3E @ 20KHz 16K0F3E @ 25KHz
	4FSK Digital Modulation	12.5KHz Data Only: 7K60FXD 12.5KHz Data & Voice: 7K60FXW
Tran	Modulation Limiting	±2.5KHz @ 12.5KHz ±4.0KHz @ 20KHz; ±5.0KHz @ 25KHz
Transmitter	FM Hum & Noise	40dB @ 12.5KHz 43dB @ 20KHz 45dB @ 25KHz
	Adjacent Channel Power	60dB @ 12.5KHz; 70dB @ 20/25KHz
	Audio Response	+1 ~ -3dB
	Audio Distortion	≤3%
	Digital Vocoder Type	AMBE+2 TM
	Digital Protocol	ETSI-TS102 361-1,-2,-3
ę	Operating Temperature	-30°C ~ +60°C
Iviro	Storage Temperature	-40°C ~ +85℃
Environmental Specifications	ESD	IEC 61000-4-2 (level 4) ±8kV (contact) ±15kV (air)
al Sc	American Military Standard	MIL-STD-810 C/D/E/F/G
ecifi	Dust & Water Intrusion	IP68 Standard
catio	Humidity	Per MIL-STD-810 C/D/E/F/G Standard
Su	Shock & Vibration	Per MIL-STD-810 C/D/E/F/G Standard

	Accuracy specs are for long-term tracking(95th percentile values>5 satellites visible at a nominal -130dBm signal strength)	
5	TTFF (Time To First Fix) Cold Start	<1 minute
ſ	TTFF (Time To First Fix) Hot Start	<10 seconds
	Horizontal Accuracy	<10 meters





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