

 SERIES

Hytera 



**DMR**  
DIGITAL MOBILE RADIO ASSOCIATION

Digital Migration Radio

# PD402 SERIES

Digital voice, louder and clearer Analog & Digital Mixed Channel

[www.hytera.us](http://www.hytera.us)

## Features

Private call, Group call and All call

Small, Sleek, Light

In digital mode, the radio operates up to 16 hours under a duty cycle of 5-5-90 @1500mAh.

IP55 & MIL-STD-810 C/D/E/F/G standards

Pre-programmed Text Message

Support one touch pre-programmed text messages and voice calls.

Dual Mode (Analog & Digital) ensures a smooth migration from analog to digital.

Voice-operated Transmit (VOX) allows you to trigger the voice transmission by voice directly.

PD402i supports Radio Registration Service (RRS), Emergency Alarm & Call, Remote Monitor Decode (Optional), Radio Disabled Decode (Optional) and Priority Interrupt Decode (Optional).

Automatic roaming of all sites in an IP Connect system.

Several talk groups share the same frequency, and each one of them can dynamically time to use one of the slots to talk. This is a two-slot-trunked mode. While time-slot 1 is busy, PD402i will use time-slot 2 to transmit.

Superior Audio

Analog & Digital Mixed Channel

Dust- & water-proof (IP55)



## highlights

- Digital Voice, Louder and Clearer
- Dual Channel Capacity
- Analog & Digital Mixed Channel
- Easy Operation
- Durable, IP55 & MIL-STD-810 C/D/E/F/G standards
- Affordable



## Target Markets



### Construction

At the noisy construction site, a radio with good voice quality and reliable in use can make all the difference.



### Security

Steady wireless signal receiving improves security work performance and reduces loss.



### Warehouse

A durable battery supports full shifts without recharging.



### Factory

Military standard and good dust-proof & water-proof rating (IP55) protect the radio from damage in complex environment of factory.

## Standard



Li-ion battery  
(1500mAh)  
BL1504



belt clip  
BC08



General MCU Rapid-rate Charger  
(for Li-Ion/Ni-MH batteries)  
CH10A07



Short antenna



Switching Power Adapter



hand strap

## Options



## Specifications

General		
Frequency Range	UHF: 350-400MHz, 400-470MHz VHF: 136-174MHz	
Channel Capacity	256	
Capacity area	3	
Channel Spacing	25/12.5KHz	
Operating Voltage	7.4V	
Battery	1500mAh (Li-Ion) 2000mAh (Li-Ion)	
Battery Life (5/5/90)	Analog/Digital: 12/16 hours (1500mAh) 16/22 hours (2000mAh)	
Weight	270g	
Dimensions	112x54x28mm	
Frequency Stability	±0.5ppm	
Antenna Impedance	50 $\Omega$	
receiver		
Sensitivity Digital) (	0.22 $\mu$ V/BER 5%	
Sensitivity Analog) (	0.22V (Typical) (12dB SIN AD) $\gamma$ 0.4V(20dB SIN AD) $\gamma$ 0.22 $\mu$ V (12dB SIN AD)	
Adjacent Selectivity	TIA-603	60dB @ 12.5KHz/70dB @ 25KHz
	AND IF	60dB @ 12.5KHz/70dB @ 25KHz
Spurious Response Rejection	TIA-603	70dB @ 12.5/25KHz
	AND IF	70dB @ 12.5/25KHz
Inter modulation	TIA-603	70dB @ 12.5/25KHz
	AND IF	65dB @ 12.5/25KHz
Hum&Noise	40dB@12.5KHz 45dB@25KHz	
Rated Audio Power Output	0.5W	
Rated Audio Distortion	$\gamma$ 3%	
Audio Response	+1~-3dB	
Conducted Spurious Emission	<-57dBm	

transmitter	
RF Power Output	VHF Highpower: 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 & Voice: 7K60FXW
Conducted/Radiated Emission	-36dBm <1GHz, -30dBm >1GHz
Modulation Limiting	±2.5KHz@12.5KHz ±5.0KHz@25KHz
FM Hum & Noise	40dB @ 12.5KHz 45dB @ 25KHz
Adjacent Channel Power	60dB@12.5KHz, 70dB@25KHz
Audio Response	+1~-3dB
Audio Distortion	$\gamma$ 3%
Digital Vocoder Type	AMBE+2 TM
Digital-Protocol	ETSI-TS102 361-1,-2,-3
Environmental	
Operating Temperature	-30 $\gamma$ - +60 $\gamma$
Storage temperature	-40 $\gamma$ - +85 $\gamma$
ESD	IEC 61000-4-2 (Level 4) ±8kV (Contact) ±15kV (Air)
Dustproof & Waterproof	IP55 Standard
Humidity	Per MIL-STD-810 C/D/E/F/G Standard
Shock & Vibration	Per MIL-STD-810 C/D/E/F/G Standard

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



### Hytera America

3315 Commerce Parkway, Miramar, FL 33025, United States  
Telephone: +1(954)846-1011

8 Whatney, Suite 200, Irvine, CA 92618, United States  
Telephone: +1(949)326-5740

1916 Wright Boulevard, Schaumburg, IL 60193, United States  
Telephone: +1 (213) 262-3578



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