

Digital Patrol Radio PD415

DMR standard radio, double channel capacity
Analogue & Digital Mixed Channel
Embedded RFID



Features

Abundant Voice Call

Full range of Voice Calls



Rugged & Reliable

The PD415 is compliant with MIL-STD-810 C/D/E/F/G standards & IP54.

Small, Sleek, Light

With dual-color injection, the size is 112x55x31mm and weight is 270g.

Long Battery Life

In digital mode, the PD415 operates for at least 16 hours under a duty cycle of 5-5-90 using the standard 1500mAh battery.

Preprogrammed Text Messages

One Touch Call/Text

Supports One Touch features that comprise of Voice Calls and Preprogrammed Text Messages.

Dual Mode (Analogue & Digital)

Dual modes (analogue & digital) operation ensures a smooth migration from analog to digital.

VOX

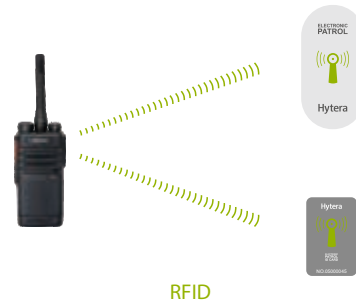
The VOX (Voice-operated Transmit) feature allows you to trigger the voice transmission with your voice directly rather than PTT button press. This means you can use the radio hands-free.

Further Development Port for radio and RFID

The API allows third party partners to develop other useful applications to extend the radio's RFID functionality.

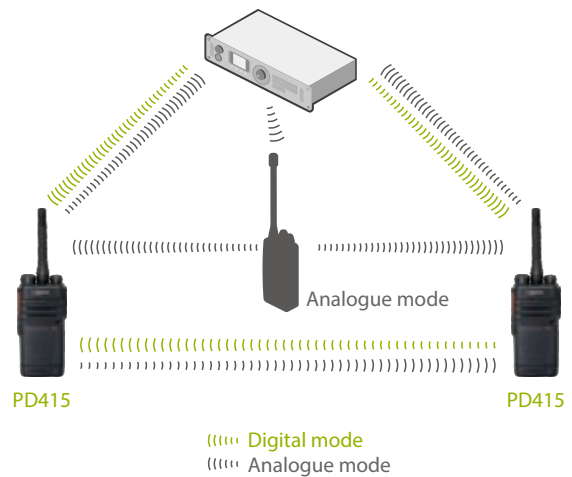
Embedded RFID

With an embedded RFID reader, PD415 can read the information of an RFID tag and automatically send it out via the radio. These RFID and data auto-transmission features enable the PD415 to work with Hytera Patrol System (a real-time tour guard solution). Hytera also offers the open API of the PD415 for development of further applications.



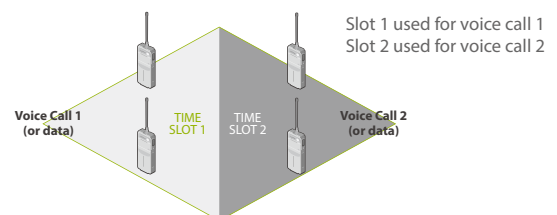
Analogue & Digital Mixed Channel

PD415 can detect both analogue and digital signal and automatically switch between the two modes to receive it on a single channel. It can reply to the received call, while the talk back timer remains. This feature makes a better migration from analogue radio to digital radio and saves your existing investment.



DMRA Direct Mode TDMA (True 2-slot)

In DMO Hytera can provide 2-slot communication, which allows for 2 talk paths on 1 frequency.





LIGHT & DURABLE
DIGITAL VOICE, CLEARER AND LOUDER
EMBEDDED RFID
ANALOGUE & DIGITAL MIXED CHANNEL

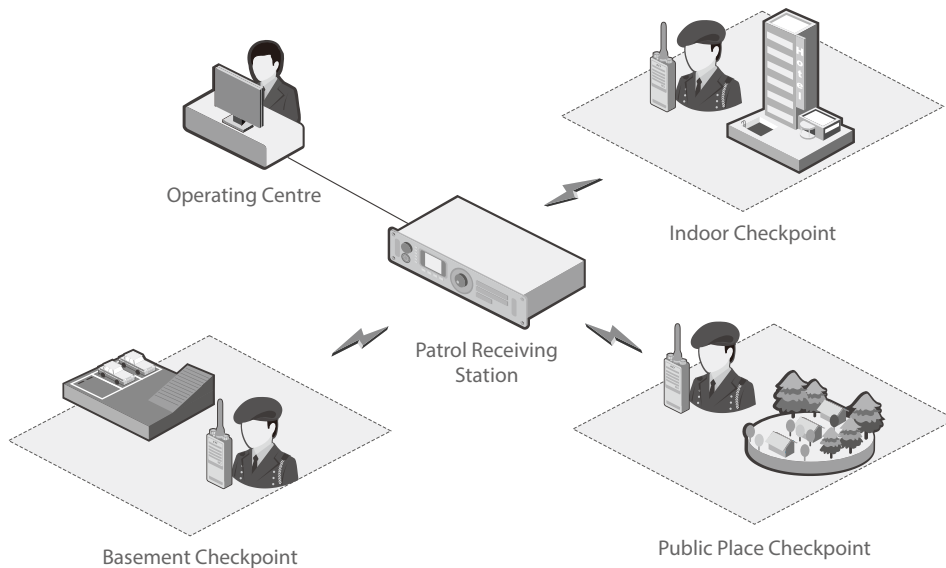


RFID board



Hytera PD415 Patrol System

Hytera Patrol System is a tour guard solution to provide real-time tracking management. It is composed of Patrol Radio, Receiving Station, Patrol Checkpoint and Patrol Software. It allows an operator to monitor the real-time tour guard because the patrol data is sent to the receiving station connected to PC (Patrol Software). This system also supports some features including one-touch alarm on radio, patrol data resend, setting patrol plan, data query, data backup, etc.



Target Markets



Standard



Options



Specifications

General	
Frequency Range	UHF: 400-470MHz, 450-520MHz VHF: 136-174MHz
Channel Capacity	32
Zone Capacity	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	112x55x31mm
Frequency Stability	±0.5ppm
Antenna Impedance	50Ω
RFID Reading Range	up to 4cm
Receiver	
Sensitivity (Digital)	0.22μV / BER 5%
Sensitivity (Analogue)	0.22μV (Typical) (12dB SIN AD) 0.4μV (20dB SIN AD) 0.22μV (12dB SIN AD)
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
Inter-modulation	TIA-603 70dB @ 12.5/25KHz
	ETSI 65dB @ 12.5/25KHz
Hum & Noise	40dB @ 12.5KHz 45dB @ 25KHz
Rated Audio Power Output	0.5W
Rated Audio Distortion	≤3%
Audio Response	+1 ~ -3dB
Conducted Spurious Emission	<-57dBm

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 & 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	≤3%
Digital Vocoder Type	AMBE++
Digital Protocol	ETSI-TS102 361-1,-2,-3
Environmental	
Operating Temperature	-30°C~ +60°C
Storage Temperature	-40°C~ +85°C
ESD	IEC 61000-4-2 (Level 4) ±8kV (Contact) ±15kV (Air)
Dustproof & Waterproof	IP54 Standard
Humidity	Per MIL-STD-810 C/D/E/F/G Standard
Shock & Vibration	Per MIL-STD-810 C/D/E/F/G Standard

PD41X, X=0, 2, 5, 6 or 8, model number varies geographically. For details, please contact our regional sales representatives.

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



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