

Digital Patrol Radio PD415

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



Features

Abundant Voice Call

Voice communication includes private, group and all call.



Rugged & Reliable

It 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, PD41X operates at least 16 hours under a duty cycle of 5-5-90 @1500mAh.

Preprogrammed Text Messages

One Touch Call/Text

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

Dual Mode (Analog & Digital)

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

VOX

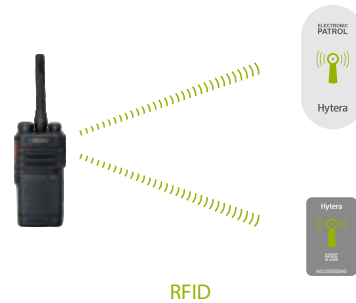
The VOX (Voice-operated Transmit) feature allows you to trigger the voice transmission by voice directly rather than PTT. This brings convenience to you in radio use.

Further Development Port for radio and RFID

The API allows third party partner to further develop other helpful applications to extend the radio RFID functionalities.

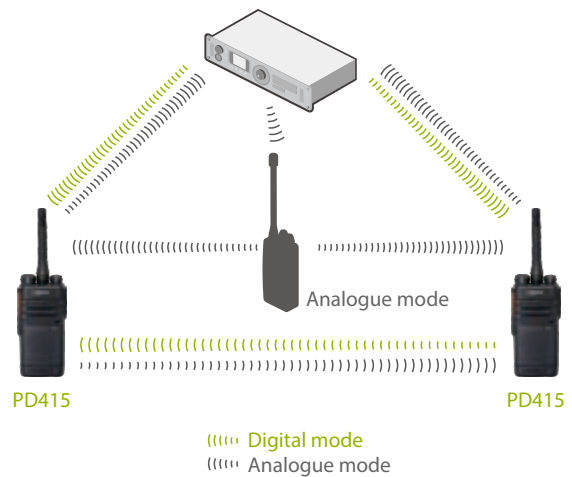
Embedded RFID

With an embedded RFID reader, PD415 can read the information of a RFID tag and automatically send it out by the radio. These RFID and data auto transmission feature enables PD415 to support Hytera Patrol system, which is a real-time tour guard solution. Hytera also offers the open API of PD41X for developing your own application.



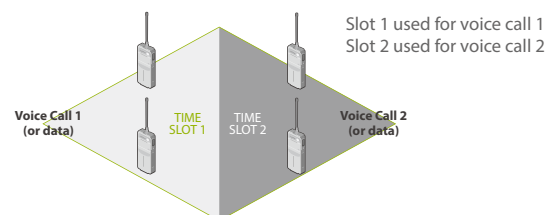
Analogue & Digital Mixed Channel

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 save 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

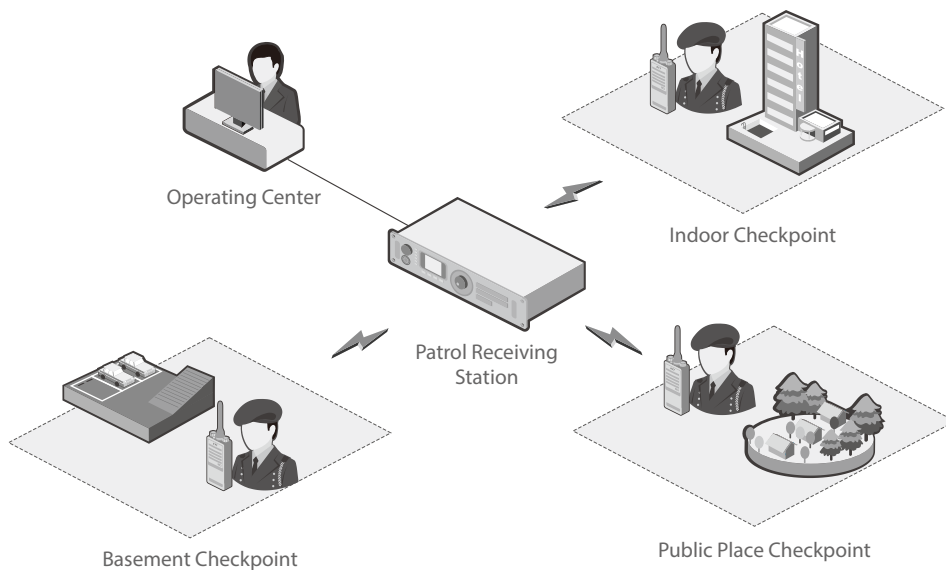


RFID board



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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