



## **Features**

#### **Abundant Voice Call**

Voice communication includes private, group and all call.



### Rugged & Reliable

It is compliant with MIL-STD-810 G standards & IP54.

### Small, Sleek, Light

With dual-color injection, the size is 112×55×31mm and weight is 270g.

## **Long Battery Life**

In digital mode, PD41X operates a minimum of 16 hours under a duty cycle of 5-5-90 @1500mAh.

## **Preprogrammed Text Messages**

#### One Touch Call/Text

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

## **Dual Mode (Analog & Digital)**

Dual modes (analog & 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 more convenience to your 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.

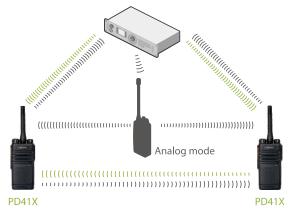
#### **Embedded RFID**

With an embedded RFID reader, PD41X can read the information of a RFID tag and automatically send it out by radio. These RFID and data auto transmission features of PD41X supports Hyteras Patrol system. This is a real-time patrol guard solution. Hytera also offers the open API of PD41X for developing your own application.



## **Analog & Digital Mixed Channel**

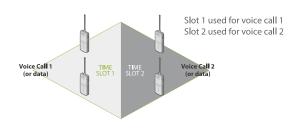
PD41X can detect both analog and digital signal and automatically switch between analog and digital mode to receive it on a single channel. It can reply to the received call, while the talk back timer remains. This feature makes for better migration from analog radio to digital radio and save your existing investment.



(IIII Digital mode

## **DMRA Direct Mode TDMA (True 2-slot)**

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





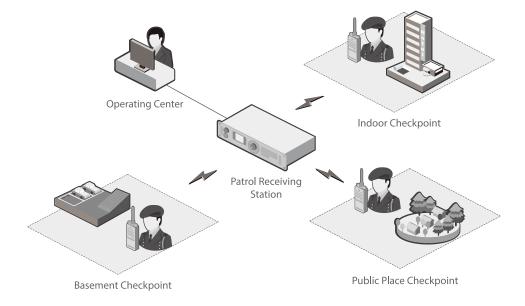
LIGHT & DURABLE
DIGITAL VOICE, CLEARER AND LOUDER
EMBEDDED RFID





# Hytera PD41X Patrol System

Hytera Patrol System is a patrol guard solution to provide real-time tracking management. It's composed of Patrol Radio, Receiving Station, Patrol Checkpoint and Patrol Software. It allows an operator to monitor the real-time patrol guard because the patrol data is sent to the receiving station connected to PC (Patrol Software). And 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**





# **Specifications**

		General
Frequency Range		UHF:350-400MHz, 400-470MHz, 450-520MHz VHF: 136-174MHz
Channel Capacity		48
Zone Capacity		3
Channel Spacing		25/12.5KHz
Operating Voltage		7.4V
Battery		1500mAh (Li-lon) 2000mAh (Li-lon)
Battery Life (5/5/90 )		Analog/Digital: 12/16 hours (1500mAh) 16/22 hours (2000mAh)
Weight		270g
Dimensions		112×55×31mm
Frequency Stability		±0.5ppm
Antenna Impedance		50Ω
RFID Reading Range		up to 4cm
		Receiver
Sensitivity (Digital)		
Sensitivity (Digital)		0.22μV / BER 5%
Sensitivity (Digital)  Sensitivity (Analog)		0.22µV / BER 5%  0.22µV (Typical) (12dB SIN AD)  0.4µV (20dB SIN AD)  0.22µV (12dB SIN AD)
Sensitivity (Analog)	TIA-603	0.22μV (Typical) (12dB SIN AD) 0.4μV (20dB SIN AD)
· -	TIA-603 ETSI	0.22μV (Typical) (12dB SIN AD) 0.4μV (20dB SIN AD) 0.22μV (12dB SIN AD)
Sensitivity (Analog)  Adjacent Selectivity  Spurious		0.22μV (Typical) (12dB SIN AD) 0.4μV (20dB SIN AD) 0.22μV (12dB SIN AD) 60dB @ 12.5KHz/70dB @ 25KHz
Sensitivity (Analog)  Adjacent Selectivity	ETSI	0.22µV (Typical) (12dB SIN AD) 0.4µV (20dB SIN AD) 0.22µV (12dB SIN AD) 60dB @ 12.5KHz/70dB @ 25KHz 60dB @ 12.5KHz/70dB @ 25KHz
Sensitivity (Analog)  Adjacent Selectivity  Spurious Response Rejection	ETSI TIA-603	0.22µV (Typical) (12dB SIN AD) 0.4µV (20dB SIN AD) 0.22µV (12dB SIN AD) 60dB @ 12.5KHz/70dB @ 25KHz 60dB @ 12.5KHz/70dB @ 25KHz
Sensitivity (Analog)  Adjacent Selectivity  Spurious Response	ETSI TIA-603 ETSI	0.22μV (Typical) (12dB SIN AD) 0.4μV (20dB SIN AD) 0.22μV (12dB SIN AD) 60dB @ 12.5KHz/70dB @ 25KHz 60dB @ 12.5KHz/70dB @ 25KHz 70dB @ 12.5/25KHz
Sensitivity (Analog)  Adjacent Selectivity  Spurious Response Rejection	ETSI TIA-603 ETSI TIA-603	0.22μV (Typical) (12dB SIN AD) 0.4μV (20dB SIN AD) 0.22μV (12dB SIN AD) 60dB @ 12.5KHz/70dB @ 25KHz 60dB @ 12.5KHz/70dB @ 25KHz 70dB @ 12.5/25KHz 70dB @ 12.5/25KHz
Sensitivity (Analog)  Adjacent Selectivity  Spurious Response Rejection  Inter-modulation	ETSI TIA-603 ETSI TIA-603 ETSI	0.22µV (Typical) (12dB SIN AD) 0.4µV (20dB SIN AD) 0.22µV (12dB SIN AD) 60dB @ 12.5KHz/70dB @ 25KHz 60dB @ 12.5KHz/70dB @ 25KHz 70dB @ 12.5/25KHz 70dB @ 12.5/25KHz 40dB @ 12.5/25KHz
Sensitivity (Analog)  Adjacent Selectivity  Spurious Response Rejection  Inter-modulation  Hum & Noise	ETSI TIA-603 ETSI TIA-603 ETSI	0.22µV (Typical) (12dB SIN AD) 0.4µV (20dB SIN AD) 0.22µV (12dB SIN AD) 60dB @ 12.5KHz/70dB @ 25KHz 60dB @ 12.5KHz/70dB @ 25KHz 70dB @ 12.5/25KHz 70dB @ 12.5/25KHz 65dB @ 12.5/25KHz 40dB @ 25KHz
Sensitivity (Analog)  Adjacent Selectivity  Spurious Response Rejection  Inter-modulation  Hum & Noise  Rated Audio Power O	ETSI TIA-603 ETSI TIA-603 ETSI	0.22µV (Typical) (12dB SIN AD) 0.4µV (20dB SIN AD) 0.22µV (12dB SIN AD) 60dB @ 12.5KHz/70dB @ 25KHz 60dB @ 12.5KHz/70dB @ 25KHz 70dB @ 12.5/25KHz 70dB @ 12.5/25KHz 40dB @ 12.5/25KHz 40dB @ 12.5/25KHz 40dB @ 25KHz

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	
En	vironmental	
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 G Standard	
Shock & Vibration	Per MIL-STD-810 G Standard	

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

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













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