

# **Features**

## Small, Sleek, Light

The size is 115 X 54 X 27mm, dual-color injection, weight is 260g.

#### **Long Battery Life**

In digital mode, PD50X operates at least 16 hours under a duty cycle of 5-5-90.

## Rugged & Reliable

It is compliant with MIL-STD-810 C/D/E/F/G standards.

#### One Touch Call/Text

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

## **Supplementary Features (optional)**

PD50X can decode radio enable, radio disable, and remote monitor, as well as Priority Interrupt.

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

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



#### **Secure Communication**

Provides basic digital encryption and Scrambler feature in analog

## **Advanced Signaling**

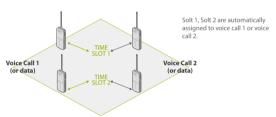
Supports multiple advanced analog signaling modes, including HDC1200, 2-Tone and 5-Tone, providing better integration into existing analog radio fleets.

#### **DMRA Data Service**

The data protocol is fully compliant to DMRA standard.

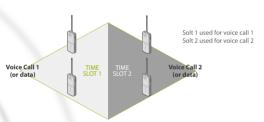
#### **Pseudo Trunk**

This virtual trunking feature allocates a free timeslot for urgent communications. This effectively enhances frequency efficiency and allows you to communicate in a timely manner in emergency situations.



#### **DMO True 2-Slot**

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



# Highlights

- Ergonomic User-Friendly Design
- Light & Durable
- Compact Size & Clear Voice
- Affordable

# **Target Markets**



Retail Shopping Malls with high noise level require radios with good noise reduction.



Education
PD50X has compact size for easy use that is capable of reaching long communication distance of a school or university campus.



Security
Enriched with several encryption types PD50X will make your communication more private.



Warehouse A durable battery allows for full shifts without the need to recharge.



Hotel Heavy communication traffic require more effective use of frequency resources.



Rent
The rent function is necessary for rent industry.



# **Specifications**

	General
Frequency Range	UHF: 400-470MHz, VHF: 136-174MHz*
Channel Capacity	32
Zone Capacity	3
Channel Spacing	25/20/12.5KHz
Operating Voltage	7.4V
Battery	1500mAh (Li-lon)
Battery Life (5/5/90 )	Analog: about 11 Hours Digital: about 16 Hours
Weight	260g
Dimensions	115 x 54 x 27mm
Frequency Stability	±0.5ppm
Antenna Impedance	50Ω
	Receiver
Sensitivity (Digital)	0.22μV / BER 5%
Sensitivity (Analog)	0.22μV (Typical) (12dB SIN AD) 0.4μV (20dB SIN AD) 0.22μV (12dB SIN AD)
Adjacent Selectivity TIA-603 ETSI	60dB @ 12.5KHz/70dB @ 20 & 25KHz 60dB @ 12.5KHz/70dB @ 20 & 25KHz
Spurious Response Rejection TIA-603 ETSI	70dB @ 12.5/20/25KHz 70dB @ 12.5/20/25KHz
Inter-modulation TIA-603 ETSI	70dB @ 12.5/20/25KHz 65dB @ 12.5/20/25KHz
Hum & 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

PD50X, X=0, 2, 5,6 or 8, model number varies geographically. For details, please contact our regional sales representatives.

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 14K0F3E @ 20KHz 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 ±4.0KHz @ 20KHz ±5.0KHz @ 25KHz
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++ or SELP
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 C/D/E/F/G Standard
Shock & Vibration	Per MIL-STD-810 C/D/E/F/G Standard

<sup>\*</sup>Coming soon.

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











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