

# ENRICHING YOUR DIGITAL EXPERIENCE

## NEW MEMBER TO WORLD'S MOST COMPLETE DMR PORTFOLIO

### PD982



## PD98X Highlight Brand New Features

# 01

### Micro SD Card

PD982 uses micro DS storage technology to allow recording and storage of critical voice calls or data transmissions.

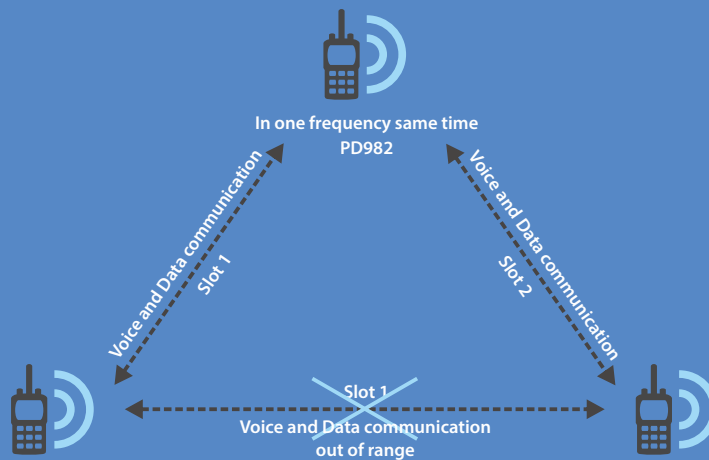
PD98X supports maximum 32G micro SD card, to record up to 576 hours digital/ analog voice.



# 02

### Single Frequency Repeater Mode

Using interference cancellation technique, PD982 can use one slot to receive signal and another slot to transmit it on the same frequency at the same time, extending communications distance in DMO mode.



# 03

### Bluetooth 4.0

PD982 has built in Bluetooth 4.0, which not only supports audio transmission, but also allows data transmission, such as programming via Bluetooth etc.

# 04

### Full Duplex Call

PD982 can make full duplex calls with other PD982, telephones or cellphones.

# 05

### RTC Clock

RTC clock feature allows customers to check the accurate time of received message and call.

# 06

### Smart Battery

Compared with PD78X, PD98X support smart battery, which makes it easier to monitor the battery status, such as battery life time and remaining charge time by smart battery charge. This also reduces the charging time dramatically.



**Centered Antenna**

Integrated GPS and RF antenna, more accurate positioning and receiving.

**360 Degree Seamless Channel Knob Turn**



**IP68 Protection**



**Enhanced Voice Quality**

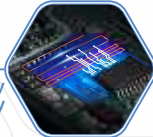


**1.8 Inch High Definition Display**

Displaying clear contents.



**Better Sensitivity and Frequency Stability**



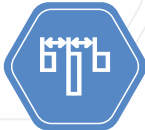
**Longer Battery Life**



Bluetooth 4.0



Micro SD Card



Single Frequency Repeater Mode



Full Duplex Call



RTC Clock



Smart Battery

# PD982 Highlight Hardware Advantages



## Better Sensitivity and Frequency Stability

Advanced technology improves receiving performance to enhance communication distance and reliability.



**Sensitivity 26%+**

Compared with PD782, PD982 adopts brand new hardware design enhanced with 26% more sensitivity.



## Longer Battery Life

PD982 adopts new battery saving technology to guarantee longer communication time.



**Battery life 33%+**

Compared with PD782, PD982 adopts new battery saving technology providing 33% more battery life.



## IP68 Protection

IP68 Dust and Waterproof Standards ensures outstanding performance even in harsh environments.



## 360°Seamles Channel Knob Turn With

With this kind of knob, users can change channels and zone easily and comfortably.



## Enhanced Voice Quality

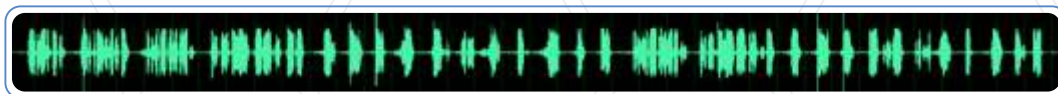
Maximum 2.5W output speaker and new noise cancelling technology ensures clear and loud voice communication.

### Noisy environment

Figure 1 Without noise cancellation



Figure 2 With noise cancellation



### Windy environment

Figure 1 Without echo cancellation



Figure 2 With echo cancellation



# Features

## Base Information

- Full Keypad, Color Screen, 1024 Channels
- Analog and Digital Dual Mode
- Bluetooth (4.0) Audio
- Bluetooth (4.0) Data\*
- Integrated GPS
- Integrated GLONASS
- Pre-programmed Text Messaging
- Freeform Text Messaging
- Option Board
- Roaming
- Scan
- Voice Notification

## Audio

- Auto Gain Control
- Acoustic Feedback Suppressor
- Loudness Quality Optimization
- Multi Band Equalization \*
- Noise Reduction Technology

## NOTES

- \* These features will be available later by software upgrade
- Standard feature
- Optional feature

## Safety

- Emergency Alarm
- Dedicate Emergency Button
- Alert Call
- Man Down
- Lone Worker
- Basic Encryption
- Enhanced Encryption(40bit)
- Enhanced Encryption(128/256bit)
- Multiple Key Encryption
- Priority Interrupt
- Remote Monitor
- Radio Enable/Disable
- Radio Check
- IP68 Dust and Waterproof
- Vibration
- GPS SMS
- GPS Location check

## Systems

- Analog Conventional
- DMR Conventional
- IP Site Connect
- MPT-1327
- DMR Simulcast System
- XPT Trunking
- DMR Trunking

## Advance Features

- Pseudo Trunk
- Telemetry
- Rent
- Phone Interconnect
- Full Duplex Call (DMR Tier 3 System)\*
- Full Duplex Call (DMR Conventional System )\*
- Single Frequency Repeater Mode\*
- Micro SD Card\*
- Smart Battery\*
- RTC Clock



# Specifications

General	Frequency Range	UHF: 350-527MHz	
	Channel Capacity	1024	
	Zone Capacity	64 (maximum of 128 channels per zone)	
	Channel Spacing	12.5KHz / 20KHz / 25KHz	
	Operating Voltage	7.4V (rated)	
	Battery	2000mAh (Li-Ion)	
	Battery Life (5-5-90 Duty Cycle, High TX Power) High-capacity 2000mAh Li-Ion Battery	Analog:14.5h Digital: 19.5h	
	Frequency Stability	± 0.5ppm	
	Antenna Impedance	50	
	Dimensions (H× W× D) (with standard battery, without antenna)	131 X 54.5 X 36mm	
	Weight (with antenna & standard battery)	12oz.	
	LCD Display	160× 128 pixels, 65535 colors 1.8 inch, 4 rows	
	Receiver	Sensitivity	Analog
Digital			0.22μ V /BER5%
Selectivity TIA-603 ETSI C		60dB @ 12.5KHz / 70dB @ 20/25KHz	
		60dB @ 12.5KHz / 70dB @ 20/25KHz	
Spurious Response Rejection TIA-603 ETSI C		70dB @ 12.5/20/25KHz 70dB @ 12.5/20/25KHz	
Blocking TIA-603 ETSI		84dB	
Hum and 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		

Transmitter	RF Power Output	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
	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 SELPor NVOC
	Digital Protocol	ETSI-TS102 361-1,-2,-3
Environmental Specifications	Operating Temperature	-30 ~ +60
	Storage Temperature	-40 ~ +85
	ESD	IEC 61000-4-2 (level 4) ±8kV (contact) ±15kV (air)
	American Military Standard	MIL-STD-810 C/D/E/F/G
	Dust & Water Intrusion	IP68 Standard
	Humidity	Per MIL-STD-810 C/D/E/F/G Standard
	Shock & Vibration	Per MIL-STD-810 C/D/E/F/G Standard

GPS	Accuracy specs are for long-term tracking(95th percentile values>5 satellites visible at a nominal -130dBm signal strength)	
	TTFF (Time To First Fix) Cold Start	<1 minute
	TTFF (Time To First Fix) Hot Start	<10 seconds
	Horizontal Accuracy	<10 meters

## Optional Accessories

							
Remote Speaker Microphone (IP57) SM18N2	C-Earset EHN16	Swivel Earset EHN17	Earbud ESN12	3-Wire Surveillance Earpiece with Transparent Acoustic Tube (beige) EAN17	Receive-only Earpiece ESS08	Six-Unit Switching Power Supply PS7002	Programming Cable (USB Port) PC38
					Pictures above are for reference only and may vary from actual products. Contact your dealer for more accessories information.		
Battery Optimizing System MCA05	MCU Multi-unit Charger (for Thick Battery) MCA08	3-wire Surveillance Earpiece with Transparent Acoustic Tube(Black) EAN18	2-wire Earpiece with Wireless Earphone and Neck Loop(Beige) EWN06	Receive-only Earpiece ESS07			



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