

ENRICHING YOUR DIGITAL EXPERIENCE

NEW MEMBER TO WORLD'S MOST COMPLETE DMR PORTFOLIO

PD985



2,000,000 100%



PD985 Highlight Brand New Features

01

Micro SD Card

Based on micro SD storage technology, PD985 helps customer to record and store critical voice call or data.

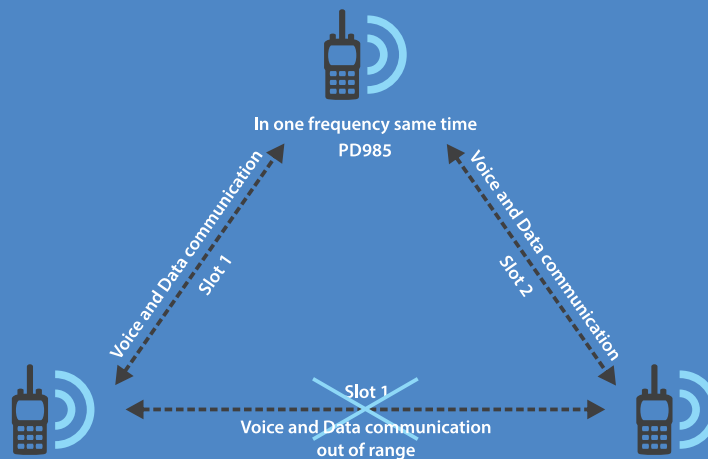
PD985 supports maximum 32Gb micro SD card, to record up to 576 hours digital/ analog voice.



02

Single Frequency Repeater Mode

Based on interference cancellation technique, the PD985 can use one slot to receive a signal and another slot to transmit in the same frequency using DMO mode to extend the communication distance.



03

Bluetooth 4.0

PD985 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

PD985 can make full duplex calls with other PD985 handsets, telephones or handsets

05

RTC Clock

RTC clock feature allows customers to check the accurate time of received messages and calls.

06

Smart Battery

Compared with the PD785, the PD985 supports smart battery, making it easier to monitor the battery status such as the battery life time and remaining charge. This also reduces the charging time dramatically.



Centered Antenna

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

360 Degree Stepless Channel Knob



18' High Definition Display

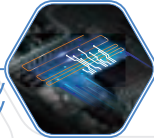
Displaying clear contents.



IP68 Protection



Better Sensitivity and Frequency Stability



Enhanced Voice Quality



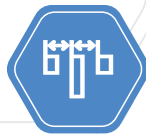
Longer Battery Life



Bluetooth 4.0



Micro SD Card



Single Frequency Repeater Mode



Full Duplex Call



RTC Clock



Smart Battery

PD985 Highlight Hardware Advantages



Better Sensitivity and Frequency Stability

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



Sensitivity 26%

+26% Sensitivity when compared to the PD785



Longer Battery Life

PD985 adopts new battery saving technology to guarantee longer communication time.



Battery life 33%

+33% battery life when compared to the PD785.



IP68 Protection

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



360 Degree Stepless Channel Knob

New control to change channels and zones easily and comfortably.



Enhanced Voice Quality

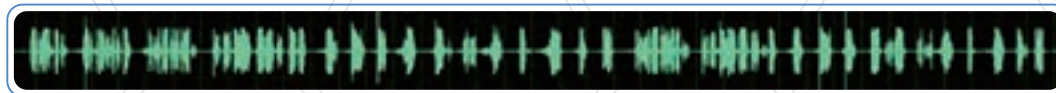
Maximum 3W output speaker and new noise cancelling technology ensures clear and loud voice communication.

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
- Channel Change Voice Notification

Audio

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

NOTES

* Those feature will be available later by software upgrade

- Standard feature
- Optional feature

Safety

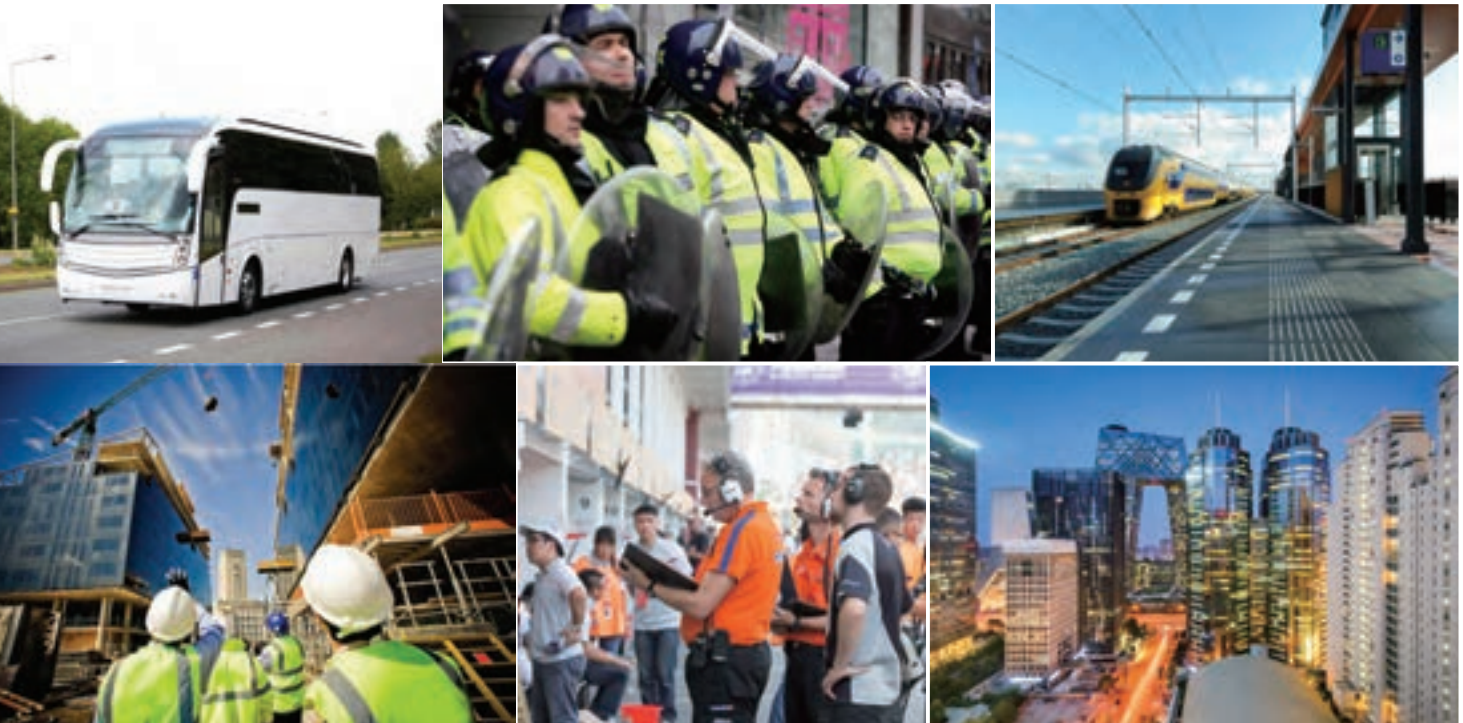
- Emergency Alarm
- Dedicated Emergency Button
- Alert Call
- Man Down
- Lone Worker
- Basic Encryption
- Enhanced Encryption(40bit)
- Enhanced Encryption(128/256bit)
- Multiple Key Encryption
- Priority Interrupt
- Remote Monitor
- Radio Enable/Disable
- Radio Check
- IP68 Dust and Waterproof
- Vibrate Alert
- 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*
- Audio Recording Capability via Micro SD Storage 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 Ω		
	Dimensions (H × W × D) (with standard battery, without antenna)	131 X 54.5 X 36mm		
	Weight (with antenna & standard battery)	335		
	LCD Display	160 × 128 pixels, 65535 colors 1.8 inch, 4 rows		
	Receiver	Sensitivity	Analog	0.22μV
Digital			0.22 μV / BER5%	
Selectivity TIA-603 ETS C		60dB @ 12.5KHz / 70dB @ 20/25KHz 60dB @ 12.5KHz / 70dB @ 20/25KHz		
Spurious Response Rejection TIA-603 ETS 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		≤ %		
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 PS7002	Programming Cable (USB Port) PC38
					<p>Pictures above are for reference only and may vary from actual products.</p> <p>Contact your dealer for more accessories information.</p>		
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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