



PD985

Our latest DMR handheld radio

The new PD985 from Hytera is the latest edition to the world's most comprehensive DMR portfolio. Offering an exceptional digital experience, with a vast array of enhanced features, the PD985 is the perfect solution for improving user efficiency and safety in any industry.



Radio

PD985/PD985G DMR handheld radio



Highlights

1. Single Frequency Repeater Mode

This feature allows your device to be used, alternatively, as a repeater, enabling your communications to go further. Based on interference cancellation techniques, the PD985 uses one slot to receive a signal, and another to transmit it in the same frequency, while using DMO mode to extend the communication distance.

2. Longer Battery Life

The all new Smart Battery of the PD985 means that this two-way radio device can be used even on long shifts, and the user is able to monitor the battery status. Consequently, the PD985 charging time is dramatically decreased.

3. Advanced Noise Cancellation Technology

Offering an exceptional audio experience, the PD985 boasts new noise cancellation technology, allowing users to hear, and speak, clearly, even in loud environments.

Advanced Features Explained:

- **Full Duplex:** PD985 enables frontline personnel to make full duplex calls between other PD985 radios, PABX, PSTN and mobile phones
- **Single Frequency Repeater Mode:** The PD985 is able to use one slot to receive a signal and another slot to transmit it on the same frequency using DMO mode to extend radio coverage.
- **Built-in Bluetooth 4.0:** With integrated Bluetooth 4.0, the PD985 not only supports audio transmit, but it will also allow programming via Bluetooth.
- **Noise Cancellation and 2.5W Audio Output:** Maximum 2.5W output speaker and new noise cancelling technology ensures clear and loud voice communication.
- **IP68 Protection:** Complies with the highest dust and waterproofing standard to confront the harshest environments. The radio continues to function after submersion in fresh water down to 2 metres for up to 4 hours.
- **Smart Battery:** This feature makes it easier to monitor the battery status, such as battery life time and charging time, and will reduce the charging time.
- **Audio Recording via Micro SD card:** The PD985 supports up to a 32GB Micro SD card, to record up to 576 hours of digital / analogue audio.
- **Safety features:** Man down, lone worker and emergency mode are included as standard to protect user wellbeing.
- **Full suite of DMR Services:** Including remote monitor, remote enable/disable and call alert.





In the box



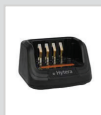
Belt Clip BC19



Lithium-Ion Battery
(2000mAh) BL2016



RO04 - Leather
Wrist Strap



MCU Rapid-Rate
Charger CH10A07



Universal Standard
Switching Power
Adapter PS1044

Optional accessories



Remote Speaker
Microphone (IP57)
SM18N2



C-Earset
EHN16



Swivel Earset
EHN17



Battery Optimising
System MCA05



MCU Multi-unit Charger
(for Thick Battery)
MCA08



3-wire Surveillance
Earpiece with Transparent
Acoustic Tube (Beige)
EAN17

Pictures above are for reference only
and may vary from actual products.

Contact your dealer for more accessories information.

Technical Data

General data		
General	Frequency range	VHF: 136 - 174MHz, UHF: 350 - 527 MHz
	Channel capacity	1024
	Zone capacity	64 (with max. 256 channels each)
	Channel spacing	12.5 kHz / 20 kHz / 25 kHz
	Operating voltage	7.4 V (rated)
	Battery Life (5-5-90 Duty Cycle, High TX Power) High-capacity 2000mAh Li-Ion Battery	Analogue: 14.5h Digital: 19.5h
	Frequency stability	± 0.5 ppm
	Antenna impedance	50 Ω
	Dimensions (W × H × D) (with standard, without antenna)	131 × 54.5 × 36mm
	Weight (with antenna & standard battery)	335 g
Receiver	LCD Display	
	160 × 128 pixels, 65535 colours 1.8 inch, 4 rows	
	Sensitivity	Analogue 0.22 µV
		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 @ 12.5KHz / 20 / 25KHz 70dB @ 12.5KHz / 20 / 25KHz
	Blocking TIA-603 ETS C	84dB
	Hum and Noise	40dB @ 12.5KHz; 43dB @ 20KHz; 45dB @ 25KHz
	Rated Audio Power Output	3W
	Rated Audio Distortion	≤ %
	Audio Response	+1 ~ -3dB
	Conducted Spurious Emission	< -57dBm

Transmitter		
Transmitter	RF Power Output	UHF High Power: 4W; UHF Low Power: 1W
	FM Modulation	11 K0F3E at 12.5 kHz 14 K0F3E at 20 kHz 16 K0F3E at 25 kHz
	4FSK digital modulation	12.5 kHz (data only): 7K60FXD 12.5 kHz (data and voice): 7K60FXW
	Modulation limiting	± 2.5 kHz at 12.5 kHz ± 4.0 kHz at 20 kHz ± 5.0 kHz at 25 kHz
	FM Hum and noise	40 dB at 12.5 kHz 43 dB at 20 kHz 45 dB at 25 kHz
	Adjacent Channel Power	60 dB at 12.5 kHz; 70dB @ 20/25KHz
	Audio Response	+ 1 to - 3dB
	Audio Distortion	≤3%
	Digital vocoder type	AMBE++ or SELP or NVOC
	Digital Protocol	ETSI-TS102 361-1,-2,-3
Environmental Specifications	Operating Temperature	-30°C ~ +60°C
	Storage Temperature	-40°C ~ +85°C
	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 -130 dBm signal strength)	
	TTFF (Time To First Fix) Cold Start	< 1 minute
	TTFF (Time To First Fix) Hot Start	< 10 seconds
	Horizontal Accuracy	< 10 metres

Features

Base Information		
●	Full Keypad, Colour Screen, 1024 Channels	
	Analogue and Digital Dual Mode	
	Bluetooth (4.0) Audio (PD985G)	
	Bluetooth (4.0) Data* (PD985G)	
	Integrated GPS (PD985G)	
	Integrated GLONASS (PD985G)	
	Pre-programmed Text Messaging	
	Freeform Text Messaging	
	Option Board	
	Roaming	
	Scan	
	Channel Change Voice Notification	
Audio		
●	Auto Gain Control	
	Acoustic Feedback Suppressor	
	Loudness Quality Optimisation	
	Multi Band Equalisation *	
	Noise Cancellation Technology	
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	
Systems		
●	Analogue Conventional	
	DMR Conventional	
	IP Site Connect	
	MPT-1327	
	DMR Simulcast System	
	XPT Trunking	
○	DMR Trunking	
Advanced 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	



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Hytera reserves the right to modify the product design and the specifications. In case of a printing error, Hytera does not accept any liability. All specifications are subject to change without notice.

Encryption features are optional and have to be configured separately. They are also subject to European export regulations.

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