



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		
Frequency range		
UHF: 400 - 470 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		
LCD Display		
160 × 128 pixels, 65535 colours 1.8 inch, 4 rows		
Sensitivity	Analogue	0.22 µV
	Digital	0.22 µV / BERS %
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		
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 NVOIC		
Digital Protocol		
ETSI-TS102 361-1,-2,-3		
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

* Features will be available from Q2 2017 ● Standard feature ○ Optional feature

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
- Radio Check
- IP68 Dust and Waterproof
- Vibrate Alert
- GPS SMS (PD985G)
- GPS Location Check (PD985G)

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

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