



PD6 Series

DMR handheld radios

The PD6 Series from Hytera offers a sleek, innovative handset for professional radio users. With a lightweight, crafted metal design, supporting both digital and analogue technology, the PD6 Series is a popular feature rich device.



Radios

PD6 Series

PD605 / PD605G

PD665 / PD665G

PD685 / PD685G

DMR handheld radios



Highlights

Robust and lightweight

The PD6 series from Hytera are only 27mm deep, making them particularly slim. The chassis is encased in a high-quality aluminum metal frame and with a weight of only 290g (PD605) or 310g (PD655/PD685), these handsets are easy to carry for long operations.

Longer battery life

With the 1500 mAh standard lithium-ion battery, the PD6 series handsets can achieve an operating time in digital mode of at least 16 hours. With the optionally available 2000-mAh battery, this could be up to 20 hours.

The PD6 series can be operated in Pseudo-Trunk mode. This assignment of the available bandwidth with double the number of channels leads to a significant easing of the increasing shortage of frequencies in the operation of DMR mobile radio systems compared to analogue mobile radio systems.

Expanded frequency range

The frequency range in UHF is covered from 400 MHz to 527 MHz.

Support of analogue and digital mobile radio

The PD6 series was developed in compliance with the ETSI DMR standard. Digital Mobile Radio (DMR). The handheld radios support the conventional DMR operation and can also be used in analogue mode. This makes the terminals of the PD6 series the ideal companion for the migration to digital mobile radio.

System solution for larger networks

In addition to conventional DMR (DMR Tier II) and analogue modes, all PD6 radios support operation in DMR trunked (Tier III), XPT digital trunking and MPT 1327.

Additional Functions

- Every radio of the PD6 series is also available with GPS (denoted by the model number followed by a 'G'). Variants with GPS support GIS applications such as AVL, telemetry and also include a Man Down function
- Encryption with the encryption algorithm ARC4 (40 bit) in accordance with DMRA or with optional algorithms AES128 and AES256 (128 and 256 bit)
- Expansion interface for applications
- Priority interrupt
- Leasing function
- Versatile voice calls: Individual call, group call, broadcast call, emergency call
- Bluetooth accessories available with optional adapter
- Roaming



Small and lightweight, robust chassis with metal frame

Multifaceted accessories available for every operation



Dust and water-proof radios in accordance with IP67

Correspond to US Military Standard MIL-STD-810 C / D / E / F / G

In the box



Lithium-ion battery
(1500 mAh) BL1504



Standard antenna
(UHF or VHF)



Rapid-rate charger
CH10A07



Wireless headset ESW01



Loudspeaker
microphone SM26N1



Earphone with C-clip
EHN20



Hand strap R003



Belt Clip BC08 (PD605)
BC22 (PD665 and PD685)



Switching power adapter
for charger P51044



Lithium-ion battery
(2000 mAh) BL2010



6-unit charger MCA08



Carrying case (nylon)
NCN011

Optional accessories

Technical Data

General data	
Frequency range	VHF: 136 - 174 MHz UHF: 400 - 470 MHz UHF3: 350 - 400 MHz UHF2: 450 - 520 MHz (PD415 only)
Supported operating modes	<ul style="list-style-type: none"> • DMR Tier II in acc. with ETSI TS 102 361-1/2/3 • Analogue • DMR Trunking (chargeable licence) • MPT Trunking (via licence upgrade)
Channel capacity	256 (128 analogue + 128 digital)
Number of zones	PD605 3 (with max. 16 channels each) PD665 / PD685 64 (with max. 256 channels each)
Channel spacing	12.5 / 25 kHz
Operating voltage	7.4 V (nominal)
Standard battery	1500 mAh (lithium-ion battery)
Battery life (5-5-90 duty cycle)	analogue / digital: approx. 12 / 16 hours (with 1500 mAh) approx. 16 / 22 hours (with 2000 mAh)
Frequency stability	± 0.5 ppm
Antenna impedance	50 Ω
Dimensions (H x W x D) (without antenna)	112 x 54 x 28 mm (PD405) 112 x 54 x 31 mm (PD415)
Weight (with antenna and standard battery)	approx. 270 g
Programmable keys	1 (PD605) 6 (PD665) 3 (PD685) + number keys
Range of the RFID reader	up to 4 cm

Environmental conditions	
Operating temperature range	- 30°C to + 60°C
Storage temperature range	- 40°C to + 85°C
ESD	IEC 61000-4-2 (level 4), ± 8 kV (contact), ± 15kV (air)
Protection against dust and moisture	IP55 (PD405) IP54 (PD415)
Shock and vibration resistance	MIL-STD-810 C/D/E/F/G
Relative humidity	MIL-STD-810 C/D/E/F/G

Your Hytera partner:



Hytera
Respond & Achieve

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Transmitter	
Transmitting power	VHF: 1 / 5 W UHF: 1 / 4 W
Modulation	11 K0F3E at 12.5 kHz 16 K0F3E at 25 kHz
4FSK digital modulation	12.5 kHz (data only): 7K60FXD 12.5 kHz (data and voice): 7K60FXW
Interfering signals and harmonics	-36 dBm (< 1GHz) -30 dBm (> 1GHz)
Modulation limiting	± 2.5 kHz at 12.5 kHz ± 5.0 kHz at 25 kHz
Hum and noise	40 dB at 12.5 kHz 45 dB at 25 kHz
Adjacent channel selectivity	60 dB at 12.5 kHz 70 dB at 25 kHz
Audio sensitivity	+ 1 dB at - 3dB
Nominal audio distortion	≤ 3 %
Digital vocoder type	AMBE+2™

Receiver	
Sensitivity (analogue)	0.22 µV (12 dB SINAD) 0.22 µV (typical) (12 dB SINAD) 0.4 µV (12 dB SINAD)
Sensitivity (digital)	0.22 µV / BER 5 %
Adjacent channel selectivity TIA-603 ETSI	60 dB at 12.5 kHz / 70 dB at 25 kHz 60 dB at 12.5 kHz / 70 dB at 25 kHz
Intermodulation TIA-603 ETSI	70 dB at 12.5 / 25 kHz 65 dB at 12.5 / 25 kHz
Spurious response rejection TIA-603 ETSI	70 dB at 12.5 / 25 kHz 70 dB at 12.5 / 25 kHz
Signal-to-noise ratio (S/N)	40 dB at 12.5 kHz 45 dB at 25 kHz
Audio power output	0.5 W
Nominal audio distortion	≤ 3%
Audio sensitivity	+ 1 dB at - 3dB
Conducted spurious emission	< -57dBm

All technical information was determined at the factory and in accordance with the corresponding standards. Subject to change on the basis of continuous development.

Further information can be found at:

www.hytera.co.uk

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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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