Apex Radio Systems Ltd.

Hytera
Respond & Achieve

PD3 Series

DMR handheld radios

The PD3 series from Hytera offers business radios in pocket format. Their compact design and intuitive operation makes these DMR handheld radios your companion for reliable digital radio communication.

DMR
DIGITAL MOBILE RADIO ASSOCIATION

www.hytera.co.uk

Radios

PD3 Series

PD355
PD365
PD375
DMR handheld radios

Highlights

DMR never looked so good
The Hytera PD3 series excel through their stylish and compact design, smartphone format, and intuitive operation. Weighing just 160g (PD355/PD365) and 165g (PD375), the models can be carried conveniently and with ease, even on long shifts.

Support of analogue and digital mobile radio
The PD3 series was developed in compliance with the ETSI DMR standard. The handheld radios support conventional DMR operation, and can also be operated in analogue mode.

Expanded frequency range (PD375)
The PD375 expands Hytera's PD3 series by a larger frequency range. It operates in the UHF band between 400 – 450 MHz or 430 – 480 MHz.

Integrated antenna design
The unique integrated antenna design enables excellent availability, without a large antenna.

Affordable pricing
Not only does the PD3 series offer a vast array of functionality, but also a quick, no-nonsense introduction to digital mobile radio at a fair price.

Longer battery life
The lithium-ion batteries (2000 mAh) included in the delivery enable the PD3 handheld radios to achieve an operating time of at least 12 hours in digital mode, with a duty cycle of 5-5-90.

Additional Functions (selection)

- Selectable transmitting power: 1.5 W or 3 W
- Different operating modes: analogue, DMR Tier II or mixed
- Protection against dust and moisture according to IP54
- Shock and vibration resistance according to MIL-STD-810 C/D/E/F/G
- DMR text messages with up to 64 characters
- Emergency alarm
- Charging and programming via Micro-USB interface
- Optional Wireless Charging Option (PD365 only)
- Scan function for analogue and digital channels
- Versatile voice calls: Individual call, group call, and broadcast call on digital channels
- Priority Interrupt, remote monitor, radio enable and disable (all via chargeable licence)
- Hytera Pseudo Trunking and Basic Encryption (via chargeable licence)

Micro-USB port for charging and programming

Integrated antenna design

Compact design and easily readable display

Programmable keys

Expanded frequency range in the UHF band at 400 – 450 MHz or at 430 – 480 MHz (PD375)

In the box

Lithium-ion battery (2000 mAh) BL2009

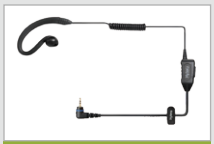
Universal Switching Power Adapter (Micro USB)

Hand strap (Nylon) RO01

Belt clip BC20, BC21, BC23

Optional accessories

Programming cable USB PC69



Earphone with C-clip EHS16

Wireless charging kit POA113

The illustrations below are for reference purposes only. The products might differ from these illustrations.

Frequency range PD355 / PD365 PD375	 UHF: 400 – 440 MHz, 430 – 470 MHz UHF: 400 – 450 MHz, 430 – 480 MHz
Supported operating modes	• DMR Tier II in acc. with ETSI TS 102 361-1/2/3 • Analogue
Channel capacity	256 (128 analogue + 128 digital)
Number of zones	16
Channel spacing	12.5 / 25 kHz (analogue) 12.5 kHz (digital)
Operating voltage	3.7 V (nominal)
Standard battery	2000 mAh (lithium-ion battery)
Battery life (5-5-90 duty cycle, high transmitting power, standard battery)	approx. 10 hours (analog) approx. 12 hours (digital)
Frequency stability	± 0.5 ppm
Antenna impedance	50 Ω
Dimensions (H × B × T)	123 × 58 × 23 mm (PD355) 135 × 58 × 24 mm (PD365) 140 × 54 × 23 mm (PD375)
Weight (with antenna and standard battery)	approx. 160 g (PD355/PD365) approx. 165 g (PD375)
Display	monochrome LC display, 3 lines

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), ± 15 kV (air)
Protection against dust and moisture	IP54
Shock and vibration resistance	MIL-STD-810 C/D/E/F/G
Relative humidity	MIL-STD-810 C/D/E/F/G

Transmitting power	UHF: 1.5 / 3 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 (< 1 GHz) - 30 dBm (> 1 GHz)
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 - 3 dB
Audio distortion	≤ 3 %
Digital vocoder type	AMBE+2™

Receiver	
Sensitivity (analogue)	0.22 µV (typical) (12 dB SINAD) 0.4 µV (20 dB SINAD) 0.22 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-noise ratio (S/N)	40 dB at 12.5 kHz 45 dB at 25 kHz
Audio power output	0.4 W
Audio distortion	≤ 5 %
Audio sensitivity	+ 1 dB at - 3 dB
Conducted spurious emission	< - 57 dBm

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

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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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