Hytera
Respond & Achieve

Hytera presents:

The world's first handheld DMR PMR446 radios

The innovative licence-free handheld digital mobile radios from Hytera were among the first in the world. They operate in 446MHz frequency range, and were developed in accordance with the open DMR standard. Their compact design and intuitive operation make these DMR radios the ideal companion for day-to-day business.

DMR
DIGITAL MOBILE RADIO ASSOCIATION

www.hytera.co.uk

Radios

PMR446

DMR handheld radio

The open DMR standard

Digital Mobile Radio (DMR) is an open standard for professional mobile radio (PMR), developed by the European Telecommunications Standards Institute (ETSI).
DMR systems use a channel range of 12.5 kHz and are compatible with the frequency spectrum of analogue mobile radio. As a result, mobile radio solutions based on the DMR standard enable a simple and cost-efficient migration from analogue to digital technology.

The DMR standard currently differentiates between three graduations in terms of functionality and performance. Licence-free DMR radios from Hytera correspond at DMR Tier I. Products in accordance with DMR Tier I are used for simple radio communications in the 446-MHz band, with a maximum transmitting power of 0.5 watts (licence-free).

For users who require a higher scope of functionality, Hytera also offer both conventional and trunked digital mobile radio systems within our product portfolio.

PMR446 – Licence-free radio for everyone

PMR446 radios can be operated by any user, with no need for proof of identification or a radio licence. The UHF frequency range from 446.0 to 446.2 MHz is assigned to these licence-free radios, whereas the range from 446.0 to 446.2 MHz is reserved for analogue and digital applications respectively.

'PMR' refers to Private Mobile Radio. PMR446 radios feature a permanent antenna with maximum transmitting power of 0.5 Watts.

Our digital PMR446 radios combine the properties of citizens' band radio with the new digital mobile radio standard. With this unique combination, you receive licence-free radios that also offer the extensive functionality of professional digital mobile radio, straight out of the box.

Benefits

Advantages of the Digital PMR446

Higher sound quality
DMR technology supports various methods to manage channel noise, ensuring a higher voice quality than conventional analogue radio. This applies particularly to the outside edges of the coverage area.

More available channels
In contrast to conventional analogue radio devices, our digital radios offer 16 analogue channels, as well as 16 digital channels.

Longer battery life
Thanks to the TDMA process used, our radios achieve a battery life in digital mode that can last up to 40% longer than a traditional analogue radio.

Licence-free DMR radio
Our licence-free DMR radios are the first of their kind on the market. This means they can be used without an operating licence, but aren't limited on features. On top of this, our PMR446 radios feature state-of-the-art digital radio technology.

Analogue and digital capabilities
All of our DMR products support analogue signals as well as digital. This allows users to communicate with pre-existing analogue radio signals and devices, as well as other DMR products.

Application

Possible applications of the PMR446

PD355LF & PD365LF
The PD355LF and PD365LF handheld radios are both compact and practical, weighing just 160g each. Possible applications for these such products include:

- Catering
- Retail
- Hospitality
- Leisure activities such as rock-climbing and mountaineering

PD505LF
The robust and rugged design of the PD505LF from Hytera makes this device the perfect companion for professionals and radio enthusiasts alike. Possible applications for the PD505LF include:

- Construction
- Agriculture
- Facility management
- Leisure activities such as rock-climbing and mountaineering

Radios

PD355LF & PD365LF

DMR handheld radios

Highlights

Attractive and lightweight
Their stylish and compact design and the intuitive operation render the PD355LF and PD365LF vital companions in everyday communication. With a weight of approx. 160g for each model, both can be carried comfortably, and even fit easily inside your pocket.

Supports analogue and digital
Both models have been developed in compliance with the ETSI Digital Mobile Radio (DMR) standard. Supporting licence-free operation according to DMR Tier I, but also operating equally as well with analogue technologies and signals, to ensure a seamless migration from analogue to digital.

32 pre-programmed channels
Thanks to the implemented digital technology, both radios offer 32 pre-programmed channels. Of these channels, 16 are analogue and 16 digital, divided into three zones.

Integrated antenna
The unique integrated antenna design on both models enables excellent signal and availability, without the fuss and bulk of a large antenna.

Small investment - quick start
Not only do the licence-free DMR devices offer numerous fantastic features, but also a quick, uncomplicated start into digital radio life, at a fair price.

Longer battery life
In digital mode, the supplied lithium-ion battery (2000 mAh) provides both mobile radios with an operating time of at least 12 hours, given an operating cycle of 5-5-90 (5 percent talk/send, 5 percent receive and 90 percent standby).

Additional Functions

- Dual mode: Switching between digital and analogue is possible
- Versatile voice calls: Individual call, group call, and broadcast call on digital channels
- Dust and water protection 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
- Four programmable keys
- Charging and programming via Micro-USB interface
- Scan function for analogue as well as digital channels

Micro USB port for battery charging

Integrated antenna design

Long battery life

Compact, lightweight design

In the box

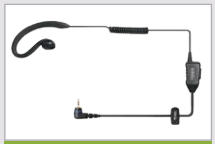
Lithium-ion battery (2000 mAh) BL2009

Switching power adapt-er for charger PS1044

Universal Switching Power Adapter (Micro USB)

Optional accessories

Programming cable (USB) PC69



Earphone with C-clip EHS16

Wireless charging kit POA113

Hand strap RO01

Belt clip BC20/BC21

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

Technical Data

PD355LF & PD365LF	
Frequency range	UHF: 446,0 – 446,2 MHz
Supported operating modes	• DMR Tier I (license-free DMR) • PMR446 analogue mobile radio • DMR Tier I in acc. with ETSI TS 102 361-1/2/3
Channel capacity	32
Zone capacity	16 (in condition as supplied to the customer 3 zones with 32 channels preconfigured)
Channel spacing	12.5 kHz (analogue, digital)
Battery life (5-5-90 duty cycle, high transmitting power, standard battery)	approx. 12 hours (digital)
Standard battery	2000 mAh (lithium-ion battery)
Transmitting power	0.5 W
Frequency stability	± 0.5 ppm
Antenna impedance	50 Ω
Digital vocoder type	AMBE+2™
Operating voltage	3.7 V
Dust and water protection	IP54
Shock and vibration resistance	MIL-STD-810 C/D/E/F/G
Operating temperature range	- 30 °C to + 60 °C
Storage temperature range	- 40 °C to + 85 °C
Dimensions (H × B × T)	123 × 58 × 23 mm (PD355) 135 × 58 × 24 mm (PD365)
Weight	approx. 160 g

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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Keep up to date with Hytera on social media.

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Ref. no.:LFD_EN_020D_050117