

Radios

PD505LF DMR handheld radio



Highlights

Support of analog and digital mobile radio

The PD505LF was developed in compliance with the ETSI Digital Mobile Radio (DMR) standard. The handheld radio supports license-free operation according to DMR Tier I. It can also be operated as an analog radio.

Secure communication

Thanks to the Hytera basic encryption with 40 bit, you communicate securely with your colleagues.

Accessories for every operation

As the classic Hytera handheld radio, you have access to an extensive portfolio of accessories for the PD505LF. Whether multiple charger for up to six radios, cases, headsets or speaker microphones, the PD505LF adapts itself to all operating conditions.

Ergonomic design

The PD505LF handheld radio is easy to operate and highly reliable, which is indispensable in critical situations.

Individual button design

The two rotary buttons of the radio transceiver are separated by the antenna. This design prevents operating errors.

Reliability

The PD505LF meets all requirements of the open DMR ETSI standard (ETSI-TS 102 361-1, -2, -3), the MIL810-C/D/E/F/G standard and degree of protection IP54. Thus excellent features are offered even under harsh operating conditions.

Additional Functions (selection)

- Dust and water protection according to IP54
- Shock and vibration resistance according to MIL-STD-810 C/D/E/F/G
- Versatile voice calls: Individual call, group call, and broadcast call on digital channels
- Analog signaling: 5-tone, 2-tone, HDC1200, CTCSS, CDCSS for analog channels
- Squelch in analog operation
- Scan function for analog as well as digital channels
- Although the PD505LF has no display, it supports text messages: Up to 25 pre-programmed text messages can be saved.
- TDMA direct mode for DMR
- Hytera basic encryption with 40 bit
- DMRA data service
- VOX



High cost efficiency

Individual button design



Ergonomic and lightweight chassis

Battery service life of 16 hours (1500 mAh)

Standard scope of delivery

Additional accessories (selection)



Lithium-ion battery (1500 mAh) BL1502



Voltage supply unit for charging cradle CH10A07



Switching power adapter for charger PS1018



Vehicle power adapter for charger CHV09



Speaker microphone SM26M1



Earphone ESM12



Hand strap RO03



Belt clip BC19



Lithium-ion battery (2000 mAh) BL2010



6-unit charger MCA08



Carrying case (nylon) NCN011

Technical Data

PD355LF & PD365LF	
Frequency range	UHF: 446,0 – 446,2 MHz
Supported operating modes	<ul style="list-style-type: none"> • DMR Tier I (license-free DMR) • PMR446 analog 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 (analog, digital)
Battery service 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

PD505LF	
Frequency range	UHF: 446,0 – 446,2 MHz
Supported operating modes	<ul style="list-style-type: none"> • DMR Tier I (license-free DMR) • PMR446 analog mobile radio • DMR Tier I in acc. with ETSI TS 102 361-1/2/3
Channel capacity	32
Zone capacity	3
Channel spacing	12.5 kHz (analog, digital)
Battery service life (5-5-90 duty cycle, high transmitting power, standard battery)	approx. 16 hours (digital)
Standard battery	1500 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	7.4 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) (without antenna)	115 × 54 × 27 mm
Weight	approx. 260 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.