

PD505LF

License-free DMR handheld radio



License-free DMR radio

The PD505LF is a digital PMR446 radio that was developed according to the open DMR standard. It is thus one of the first DMR Tier I radios worldwide. Form and design are based on the classic Hytera radios.

Support of analog & 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.

Ergonomic design

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

Technical Data PD505LF

| General data | |
|--|---|
| Frequency range | UHF: 446.0 – 446.2 MHz |
| Supported operating modes | <ul style="list-style-type: none"> ▪ DMR Tier I (license-free DMR) ETSI TS 102 361-1/2/3 ▪ PMR446 analog mobile radio |
| Number of channels | 32 |
| Number of zones | 3 |
| Channel spacing | 12.5 kHz (analog) 12.5 kHz (digital) |
| Operating voltage | 7.4 V (nominal) |
| Standard battery | 1500 mAh (lithium-ion battery) |
| Battery service life (5-5-90 duty cycle) | approx. 16 hours (digital) |
| Frequency stability | ± 0.5 ppm |
| Antenna impedance | 50 Ω |
| Dimensions (H × W × D, without antenna) | 115 × 54 × 27 mm |
| Weight (with antenna and standard battery) | approx. 260 g |

| Transmitter | |
|----------------------|----------|
| Transmitting power | 0.5 W |
| Digital vocoder type | AMBE +2™ |

| Environmental conditions | |
|--------------------------------------|-------------------------------|
| Operating temperature range | - 30 °C to + 60 °C |
| Storage temperature range | - 40 °C to + 85 °C |
| Protection against dust and moisture | IP54 |
| Shock and vibration resistance | MIL-STD-810 C / D / E / F / 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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Encryption features are optional and have to be configured separately; they are also subject to German and European export regulations.

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