



# POWER446

Analog hand-held radio

POWER446 is an easy to operate, license-free two-way radio transceiver that excels through its clear and outstanding voice quality as well as a long battery life. Thanks to the robust and reliable design and its water-proof and dust-proof quality in accordance with degree of protection IP66, you can fully concentrate on your tasks even in extreme environments.

**HYT**  
Two-way Radio



# Radio

## POWER446

Analog hand-held radio



User-friendliness is the top priority for this radio transceiver. As a result, the POWER446 is easy to operate. On top of that, it excels with its clear and excellent voice quality and long battery life. Thanks to the robust and reliable design and its waterproof and dust-proof quality in accordance with degree of protection IP66, you can fully concentrate on your actual tasks even in rough and extreme environments. Always carry the POWER446 with you, and a smooth communication becomes the most natural thing!

### Highlights

#### License-free radio transceiver

You can communicate free of charge with the device in a simple way.

#### Dust-proof and waterproof in accordance with degree of protection IP66

The device is protected against dust and heavy water splashing.

#### Longer battery life

A 2000-mAh battery offers an operating time of 25 hours with an operating cycle of 5-5-90.

#### Improved voice quality

POWER446 features a loudspeaker with a diameter of 45 mm. In addition, this device utilises state-of-the-art processes. They ensure an improved sound quality of your calls.

#### Powerful audio quality

A powerful loudspeaker guarantees an excellent, clear and distortion-free sound quality.



## Functions

- Monitor function
- CTCSS/CDCSS and noise cancellation
- VOX
- Channel scan
- Energy-saving mode
- Warning tone for low battery charge state
- Busy channel lockout
- Time-out timer (TOT)
- Programmable via PC
- Line-connected "cloning" function for transferring settings to another radio transceiver
- Selectable squelch levels



**Dust-proof and waterproof**  
In accordance with degree of protection IP66 protected against dust and heavy water splashing.

**Unique design**  
The radio transceiver POWER446 has a special battery lock which ensures a secure connection between battery and radio transceiver as well as simple handling.

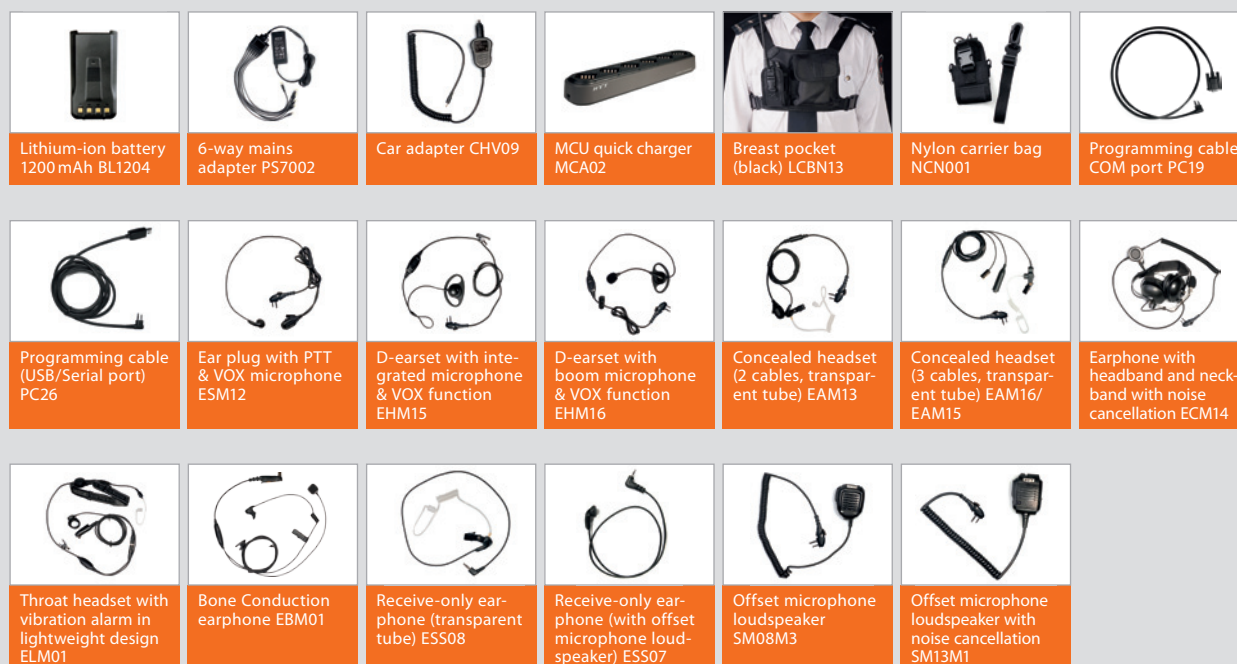
**LED display for battery charge state**  
You can activate a three-colour LED display by pressing a single button to display the charge state of the battery.

**Powerful loudspeaker**  
A powerful loudspeaker with a diameter of 45 mm guarantees an excellent, clear and distortion-free sound quality – even in loud environments.

## Standard accessories



## Optional accessories (excerpt)



The illustrations shown above are only for reference purposes. The products themselves may vary from these representations.

## Technical data

General data	
Antenna impedance	50Ω
Frequency range	446.00625 to 446.09375 MHz
Channel capacity	16
Channel spacing	12.5 kHz
Operating voltage	7.4 VDC
Standard battery	2000mAh (lithium-ion battery)
Battery service life (5-5-90 operating cycle)	up to 25 hours
Operating temperature range	-25 °C to +65 °C
Frequency stability	± 2.5 ppm
Dimensions (H × W × D) (with battery, without antenna)	119mm × 55 mm × 36 mm
Weight (with antenna and battery)	282 g
Shock and vibration resistance	acc. to MIL-STD-810 C/D/E/F
Protection against dust and moisture	Degree of protection IP66

Transmitter	
RF transmitting power	≤ 0.5 W
Modulation	11 K0F3E
Interfering signals and harmonics	-36 dBm (at < 1GHz) -30 dBm (at > 1GHz)
Modulation limiting	≤ 2.5 kHz
Audio distortion	≤ 5 %

Receiver	
Sensitivity	≤ -118 dBm
Adjacent channel selectivity	≥ 60 dB
Intermodulation	≥ 60 dB
Spurious response rejection	≥ 70 dB
Hum and noise	≥ 40 dB
Nominal audio power output	800 mW
Nominal audio distortion	≤ 5 % (800 mW)

All technical indications were tested according to the corresponding standards. Subject to change on the basis of continuous development.

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