



# TC-446S

Analog hand-held radio

The license-free radio transceiver TC-446S combines state-of-the-art analog technologies with user-friendly design, providing you with advantages in productivity and administrative efficiency. Thanks to its compact design and low weight, this robust radio transceiver is ideally suited for use in facility management, catering and hotel business, production area, retail trade, education system and construction business. In addition, the TC-446S offers excellent performance at an affordable price.

**HYT**  
Two-way Radio



# Radio

## TC-446S

Analog hand-held radio



### Highlights

#### Extended battery runtime

The TC-446S with its standard battery achieves a battery runtime during operation of up to 24 hours with an operating cycle of 5-5-90. The programmable energy-saving function activates itself if the radio transceiver has not been used for 10 seconds. A warning tone signals that the battery requires charging.

#### Sturdy and ergonomic design

The compact casing size and the low weight ensure that the radio transceiver can be carried anywhere. Ergonomically shaped rotary knobs and buttons guarantee simple handling. The TC-446S meets the degree of protection IP54 and is dust-proof and splash-proof.

#### CTCSS / CDCSS signalling

38 different CTCSS and 61 different CDCSS sub-audio tones allow a quick and user-friendly direct call, group call and remote control.

#### Scan

Station scan: So that no incoming call gets lost. Priority scan for selected channels.

#### Improved voice quality

The TC-446S combines advanced voice technologies to provide optimal voice quality during your communication.

#### Time-out timer

The TC-446S features a time-out timer to avoid inadvertent continuous operation.



## 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



### Low weight and robust design

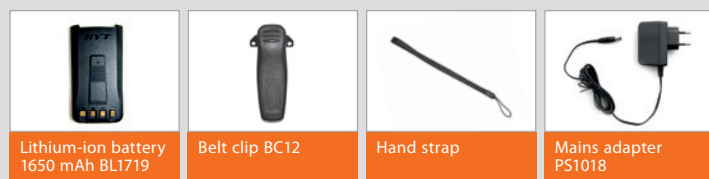
Despite its low weight, the TC-446S offers a sturdy casing.

License-free PMR446 radio transceiver.

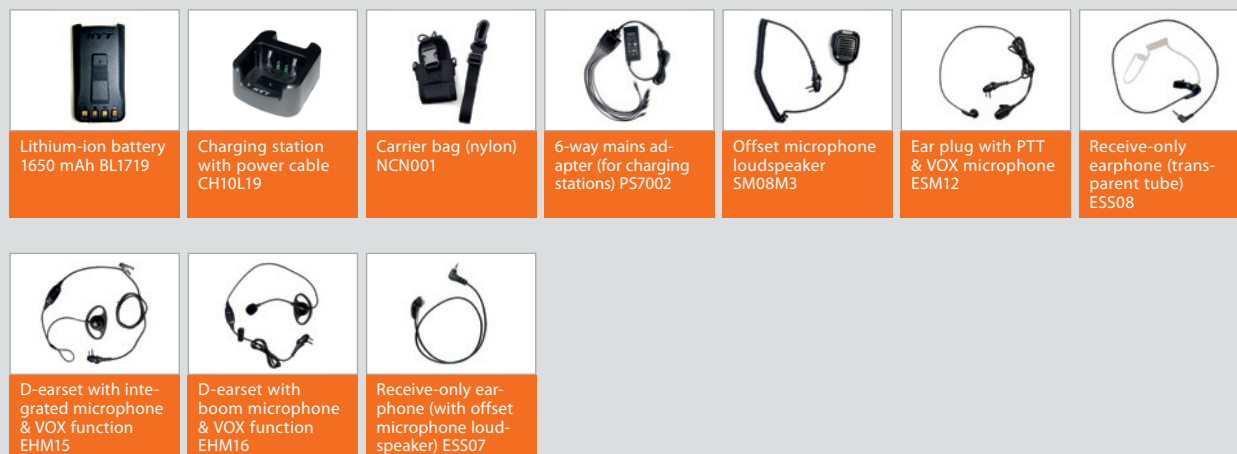
Improved voice quality through state-of-the-art technologies.

With the supplied battery, the TC-446 achieves an operating runtime of up to 24 hours (operating cycle 5-5-90).

## 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	
Frequency range	446.00625 MHz to 446.09375 MHz
Channel capacity	16
Channel spacing	12.5 kHz
Operating voltage	7.4 V
Standard battery	1650 mAh (lithium-ion battery)
Battery service life (5-5-90 duty cycle)	approx. 24 hours
Frequency stability	± 2.5 ppm
Operating temperature range	-25 °C to +60 °C
Antenna impedance	50 Ω
Dimensions (H × W × D) (with standard battery, without antenna)	113 × 54 × 35 mm
Weight (with antenna and standard battery)	270 g
Shock and vibration resistance	MIL-STD-810 C/D/E/F
Protection against dust and moisture	IP54

Transmitter	
Transmitting power	0.5 W
Modulation	8KΦF3E
Interfering signals and harmonics	≤ -36 dBm (< 1 GHz) ≤ -30 dBm (> 1 GHz)
Signal-to-noise ratio	≤ -38 dB
Nominal audio distortion	≤ 5 %

Receiver	
Sensitivity	≤ 0.282 μV
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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### Hytera Mobilfunk GmbH

**Address:** Fritz-Hahne-Straße 7, 31848 Bad Münder, Germany  
**Phone:** +49 (0)5042 / 998-0 **Fax:** +49 (0)5042 / 998-105 **E-Mail:** [info@hytera.de](mailto:info@hytera.de)  
[www.hytera.de/en](http://www.hytera.de/en)



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