



Analogue radios

Handheld and mobile radios from Hytera

Hytera's HYT radios for licence-free and licensed analogue communication offer every user a high level of added value. Their robust, compact construction, their useful functionality and their high reliability ensure trouble-free communication, irrespective of whether for professional, personal or leisure use.

Whether it's communication across a construction site, office facility, or perhaps a restaurant and hotel, with HYT analogue radios from Hytera, you can increase the productivity and efficiency of your staff.

HYT
Two-way Radio

Radio

TC-446S

PMR446 handheld radio

The TC-446S licence-free radio combines modern analogue technologies with user-friendly design to boost your productivity.

Thanks to its compact form and light weight, this robust two-way radio is ideally suited for use in facility management, catering and hospitality, production and manufacturing, retail, education and construction.



Highlights

Licence-free two-way radio

The TC-446S is a PMR446 radio and can therefore be used straight out of the box without the need to acquire a radio licence.

Longer battery life and energy-saving functions

With a standard battery the TC-446S achieves a battery life that can easily outlast a shift, whilst the optional high capacity battery can last up to 24 hours from a single charge, on a duty cycle of 5-5-90. The programmable energy-saving function activates itself if the two-way radio has not been used for 10 seconds.

CTCSS/CDCSS signaling

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

Time-out timer

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

Functions

- Monitor function
- CTCSS/CDCSS and hum and noise
- 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 two-way radio
- Selectable squelch levels



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	1300mAh (lithium-ion battery)
Frequency stability	± 2.5 ppm
Operating temperature range	-25 °C to +60 °C
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
Dust and water protection	IP54

Transmitter	
Transmitting power	0.5 W
Modulation	8 K0F3E
Interfering signals and harmonics	≤ -36 dBm (< 1 GHz) ≤ -30 dBm (> 1 GHz)
Hum and noise	≤ -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 information was determined at the factory and in accordance with the corresponding standards. Subject to change on the basis of continuous development.

In the box

Lithium-ion battery 1300 mAh BL1301	Belt clip BC12	Charger CH10L19
Wrist strap RO03	Switching power adapter for charger PS1044	

Optional accessories

Carrying bag with belt strap NCN001	Lithium-ion battery (1650mAh) BL1719	Programming cable (USB) PC26
Remote speaker microphone (IP55) SM08M3	Concealed headset EAM12	Earbuds with D-piece and microphone EHM15

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

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