



TC-610

Analog hand-held radio

Harsh, noisy and dusty working conditions in construction sites may lower your efficiency and productivity by dirtying the radio or shadowing the talk. The TC-610 hand-held radio is the option customized for users in these industries, as its superior dust and water protection performance helps to seal out dust and water.

HYT
Two-way Radio



Radio

TC-610

Analog hand-held radio



Highlights

Dust and water protection class IP66

In harsh, noisy and dusty working conditions such as construction sites, it is very probable that your radio is getting dirty. The TC-610 hand-held radios are IP66-rated and have excellent dust and water protection performance. The IP66 protection allows you to wash off mud and dust. A water jet (40 mm), which is projected from any direction against your radio for up to one minute, must not have any harmful effect. Your radio can be dried to operate normally after you have washed it.

Powerful audio and wide communication range

Superior audio quality is the premise for your team to work efficiently in noisy environments. A powerful speaker with a size of 45 mm ensures clear and crisp sound, even in noisy environments. You can also use high transmit power for a wide communication coverage.

Reliable mechanical design

The HYT battery latch mechanism is applied to the TC-610 radios, so that a secure connection between battery and radio is ensured, no matter how long the radio has been used.

High/low power switchable

By pressing one single button, users can switch between low and high power to save energy or to overcome a greater distance respectively.

Programmable channel spacing

This feature enables flexibility and easy migration of channel spacing requirements when the need arises, with no need to buy new radios.

Battery save

The battery save feature is automatically activated once when no activity on the channel and no operation is performed, for extended operation time.





Innovative design

Low battery alert

If the battery level is running low, the radio is alerting the user to recharge the battery.

Busy channel lockout

A channel already in use is not available to other users.

CTCSS/CDCSS

Set up workgroups/users with unique CDCSS/CTCSS to prevent unwanted conversations on the same frequency.

PC programmable

You are able to customize the features of each radio for each user.

Wired clone

Easily copy the features of one radio to another to save time.

Time-out Timer

This feature allows more efficient use of channels by limiting the amount of time of each transmission.

Standard accessories

Li-ion Battery 2000 mAh BL2001	Rapid-rate charger CH10A03	Belt clip BC12	Nylon strap RO03	Power adapter for charger (100–240V) PS1018	Antenna

Optional accessories (Excerpt)

Ni-MH battery (1300 mAh) BH1303	Six-unit charger incl. power adapter MCA02	Six-unit switching power PS7002	Battery optimizing system MCA05-A1	Nylon chest pack LCBN13	Nylon case with belt loop NCN001
Remote speaker microphone SM08M3	D-earset with in-line MIC & VOX EHM15	2-wire surveillance earpiece with trans- parent acoustic tube, VOX EAM13	3-wire surveillance earpiece with trans- parent acoustic tube (beige) EAM15	Programming cable (USB) PC26	Programming cable (COM port) PC19

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

Technical Data

General data	
Frequency range	VHF: 136 – 174 MHz UHF: 440 – 470 MHz
Channel capacity	16
Channel spacing	12.5 / 20 / 25 kHz
Operating voltage	7.4 V
Standard battery	2000 mAh (lithium-ion battery)
Battery service life (5-5-90 duty cycle)	approx. 9 hours (1300 mAh, NiMH battery, optional) approx. 14 hours (2000 mAh, lithium-ion battery, included in the scope of delivery)
Frequency stability	± 2.5 ppm
Operating temperature range	- 20 °C to + 55 °C
Antenna impedance	50 Ω
Dimensions (H × W × D) (with standard battery, without antenna)	119 × 55 × 33 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	IP66

Transmitter	
Transmitting power	VHF: 2 / 5 W UHF: 2 / 5 W
Modulation	16 KΦF3E / 8 KΦF3E
Interfering signals and harmonics	- 36 dBm (< 1 GHz) - 30 dBm (> 1 GHz)
Signal-to-noise ratio	40 / 35 dB
Nominal audio distortion	≤ 5 %

Receiver	
Sensitivity	0.25 / 0.28 μV
Adjacent channel selectivity	≥ 60 / 70 dB
Intermodulation	≥ 65 dB
Spurious response rejection	≥ 70 dB
Hum and noise	40 / 45 dB
Nominal audio power output	800 mW
Nominal audio distortion	≤ 5 %

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

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