

# Radio

## TC-610

### Analogue handheld radio

Working and communicating in harsh, noisy, dusty environments can be difficult, and can result in reduced productivity.

The handheld TC-610 radio is specifically designed for difficult working environments, delivering reliable, clear communications.



### Highlights

#### Dust and water proof

With IP66 rating offering protection against dust and water ingress, the TC-610 is ideal for use outdoors.

#### Clear communications

Superior audio quality is the premise for your team to work efficiently in noisy environments. The TC-610 offers a powerful loudspeaker, ensuring crystal clear sound.

#### Reliable mechanical design

The TC-610 is equipped with the HYT battery latch to securely connect the battery and radio, even during extended usage.

#### High/low power switchable

The user can change to low or high transmitting power at the press of a button to save the battery or to cover a larger communication distance.

#### Battery saver

The battery save feature is automatically activated if there is no activity on the channel and no operation is performed after a set time.

#### Low battery alert

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

#### CTCSS/CDCSS

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

#### Programmable via PC

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.



## Technical Data

General data	
Frequency range	VHF: 136 – 174 MHz UHF: 440 – 470 MHz
Channel capacity	16
Channel spacing	12.5 / 25 kHz or 20 / 25 kHz
Operating voltage	7.4 V
Standard battery	1200 mAh (lithium-ion battery)
Battery service life (5-5-90 duty cycle)	Approx. 9 hours
Frequency stability	± 2.5 ppm
Operating temperature range	-20 °C to +55 °C
Antenna impedance	50 Ω
Dimensions (H × W × D)	119 × 55 × 33 mm (with standard battery, without antenna)
Weight	270 g (with antenna and standard battery)
Shock and vibration resistance	MIL-STD -810 C/D/E/F
Dust and water protection	IP66

Transmitter	
Transmitting power	VHF: 2/5 W UHF: 2/5 W
Modulation	F3E
Interfering signals and harmonics	-36 dBm (< 1 GHz) -30 dBm (> 1 GHz)
Hum and noise	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 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 (1200 mAh) BL1204	Belt clip BC12	Charger CH10A03
Wrist strap RO03	Switching power adapter for charger PS1044	Antenna

## Optional accessories

Carrying bag with belt strap NCN001	Lithium-ion battery (2000 mAh) BL2001	Programming cable (USB) PC26
Remote speaker microphone (IP55) SM13M1	Concealed headset EAM12	Earbuds with D-piece and microphone EHM15

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