

Applicable MIL-STD-810C/D/E/F

Applicable MIL-STD	810C Methods Procedures	810D Methods Procedures	810E Methods Procedures	810F Methods Procedures
Low Pressure	500.1 1	500.2 1,2	500.3 1,2	500.4 1
High Temperature	501.1 1,2	501.2 1,2	501.3 1,2	501.4 1,2
Low Temperature	502.1 1	502.2 1,2	502.3 1,2	502.4 1,2
Temp. Shock	503.1 1	503.2 1	503.3 1	503.4 1
Solar Radiation	505.1 1	505.2 1	505.3 1	505.4 1,2
Rain	506.1 2	506.2 2	506.3 1,2	506.4 1,2
Humidity	507.1 2	507.2 2,3	507.3 2,3	507.4 1
Salt Fog	509.1 1	509.2 1	509.3 1	509.4 1
Dust	510.1 1	510.2 1	510.3 1	510.4 1
Vibration	514.2 8,10	514.3 1	514.4 1	514.5 1
Shock	516.2 1,2,5	516.3 1,4	516.4 1,4	516.5 1,4

#### General

Frequency Range(MHz)	VHF: 136-174 UHF: 400-420 440-470 450-470 350-390
Channel Capacity	16
Channel Spacing(KHz)	25 /12.5
Operating Voltage(V)	7.4
Battery	1200mAh (Li-ion)
Battery Life (5-5-90 Duty Cycle)	More than 9 hours
1200mAh Li-ion battery	More than 9 hours
1300mAh Ni-MH battery	More than 14 hours
2000mAh Li-ion battery	
Frequency Stability(ppm)	±2.5
Operating Temperature(°C)	-20~+50
Antenna Impedance( Ω )	50
Dimensions (H × W × D)(with battery, without antenna)(mm)	119 × 55 × 33
Weight (with antenna & battery)(g)	270g (TC-610) 275g (TC-610P)

#### Transmitter

RF Power Output	5W/2W(VHF) 5W/2W(UHF)
Modulation	F3E
Spurious and Harmonics	-36dBm<1GHz -30dBm>1GHz
FM Noise	40/35dB
Audio Distortion	≤5 %

All Specifications are tested according to TIA/EIA-603, and subject to change without notice due to continuous development.

#### Receiver

Sensitivity	0.25/0.28 μ V
Selectivity	70/60dB
Intermodulation	≥65dB
Spurious Response Rejection	≥70dB
S/N	45/40dB
Rated Audio Power Output	800mW
Rated Audio Distortion	≤5%



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# TC-610/610P

Cost Effective  
Professional Radio



- Dust/Water Protection Class IP66
- Powerful Audio and Wide Communication Range
- LED Battery Gauge
- The Patent Structural Design



# TC-610/610P

## Professional Two-way Radio

### Super Features

#### Dust/Water Protection Class IP66

In harsh, noisy, dusty and wet working conditions such as construction sites, generally your radio is apt to be smudged. But the TC-610P series will bring you reliable communication and high productivity in these working conditions, and the IP66-excellent protection with pin-touched connection interface allows you to wash off mud and dust on your radio. Other radios with poor waterproof performance may not work after you expose them to water.

#### Double Injection Molding

The TC-610P series employ double injection molding, which is a technique with high difficulty coefficient and high risk. Owing to this superior technique, the radio is comfortable to handle, rugged and durable.

#### Powerful Audio and Wide Communication Range

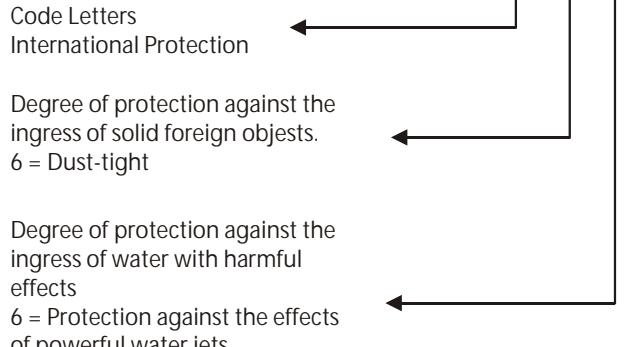
A powerful speaker with a diameter of 45mm (36mm for speakers of common radios) ensures superb clear, crisp sound, even in noisy environments. High transmit power (5W for UHF frequency band) accommodates wide communication coverage.

#### LED Battery Gauge

Non-display radios generally have no battery power indicator. The TC-610P series allow you to simply press one button to illuminate the tri-color LED battery gauge, which indicates battery strength levels for more effective power management.

#### Proprietary Structural Design

The battery latch structure of TC-610P series radios is another patent owned by HYT. It delivers secure connection between the battery and the radio, as well as simple operation.



\* IP66 water protection ensures the radio to be protected against a water jet for one minute. The diameter of the water jet is 40 mm.

### Main Features

#### High/Low Power Switchable

By simple pressing one button, users can switch to low power when communicating within limited range coverage or switch to high power when further distance is required. High transmit power optimizes range coverage while low transmit power conserves battery consumption, all at the user's control.

#### Programmable 12.5KHz/25KHz Channel Spacing

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

#### Monitor

Allows users to monitor the activity on the current channel. The feature is especially helpful for receiving a weak signal.

#### Battery Save

The Battery Save feature is automatically activated once no activity on the channel and no operation performed, for extended operation time.

#### Low Battery Alert

Alert users to recharge the battery should the battery level run low.

#### TX Admit

Prevent users from "talking over" each other by restricting the user from transmitting if activity is detected on the channel.

#### Time-out Timer

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

#### 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.

#### CTCSS/CDCSS

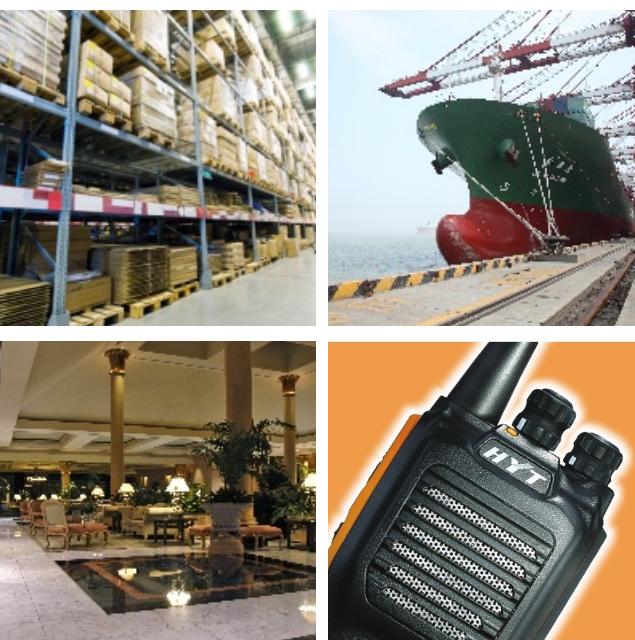
Set up workgroups/users with unique CDCSS/CTCSS to prevent unwanted conversations on the same frequency.

#### Selectable Squelch Level (1-9)

Helps minimize interference from undesired weak signals and helps weak signals be heard.

#### Channel Scan

The channel scan feature enables the radio to continuously scan each channel in the scan list for activity. Simply press a side function button to activate scanning. When activity is detected on a channel the scan process will stop and you will hear the transmission.



#### Voice Operated Transmit (VOX)

Enjoy the convenience of hands-free operation when used with optional accessories.

#### 2-Tone Decode (for TC-610P optional)

Allows you to receive Select Call, Alert Call, and Alert Call w/Voice.

#### HDC1200 PTT ID (for TC-610P optional)

Enables the transmission of caller ID and allows user to identify incoming callers.

#### ATIS

ATIS is an automatic identification device compliant with special technology regulations. This feature may be enabled by your dealer for specific areas.

#### DOS (Data Operated Squelch)

Helps to eliminate noise that occurred at the receiver.

### IMPORTANT

1. TC-610/610P series are NOT submersible! Never immerse the radio in water.

2. KEEP the radio's accessory jack cover attached when the speaker-microphone is not in use. Water may get into the radio when the cover is not attached.

### Recommended Applications

- Construction sites
- Stocking

- Hotel
- Property management

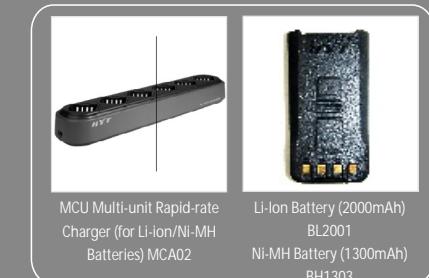


### Accessories

#### Standard Accessories

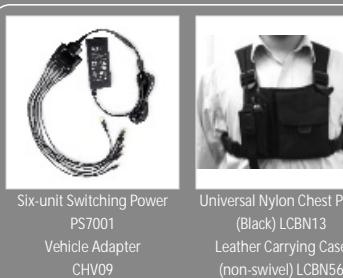
Li-Ion Battery (1200mAh) BL1204      Switching Power (Varies from different countries and areas)      Antenna  
MCU Rapid-rate Charger (for Li-ion/Ni-MH Batteries) CH10A03      Belt Clip BC12      Strap RO03

#### Optional Accessories



MCU Multi-unit Rapid-rate Charger (for Li-ion/Ni-MH Batteries) MCA02

Li-Ion Battery (2000mAh) BL2001  
Ni-MH Battery (1300mAh) BH1303



Six-unit Switching Power PS7001  
Vehicle Adapter CHV09

Universal Nylon Chest Pack (Black) LCBN13  
Leather Carrying Case (non-swivel) LCBN56

Audio Accessories   TC-610P: Contact Pin Accessory Jack   TC-610: 2-Pin Accessory Jack



Earbud with in-line PTT  
ESN05(TC-610P) / ESM11(TC-610)

Earbud with on-MIC PTT  
ESN06 / ESM12(TC-610)



Behind-the-Head, Noise-Cancelling Headset (TC-610P) / ECM14(TC-610)

Earbud with on-MIC PTT  
ESN07 / ESM13(TC-610)



Light-weight, Single-muff Headset  
ECN07(TC-610P) / ECM12(TC-610)

Light-weight, Behind-the-head Earpiece ECN08(TC-610P) / ECM13(TC-610)



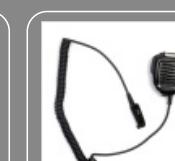
Earpiece with on-MIC PTT & Transparent Acoustic Tube  
EAN04(TC-610P) / EAM10(TC-610)

Light-weight, Behind-the-head Earpiece ECN09(TC-610P) / ECM14(TC-610)



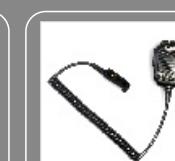
Light Weight, Throat-Vibrating Earpiece  
ELN02(TC-610P) / ELM01(TC-610)

Ear Canal Bone Induction Earpiece EBN01(TC-610P) / EBM01(TC-610)



Remote Speaker Microphone  
SM08NT(TC-610P) / SM13NT(TC-610)

Receive-only Earbud (for use with remote speaker microphone) ESS07



Noise-Cancelling Remote Speaker Microphone (IP56) SM13NT(TC-610P) / SM13M2(TC-610)

Receive-only Earpiece with Transparent Acoustic Tube (for use with remote speaker microphone) ESS08



D-earset with Boom Microphone  
EHN08(TC-610P) / EHM10(TC-610)

D-earset with in-line Microphone  
EHN07 / EHM15(TC-610)

Programming Cable (COM port) PC18(TC-610P) / PC19(TC-610)  
Programming Cable (USB to Serial Port) PC25(TC-610P) / PC26 (TC-610)

D-earset with in-line Microphone  
EHN07 / EHM15(TC-610)