

**HYT**

Two-way Radio

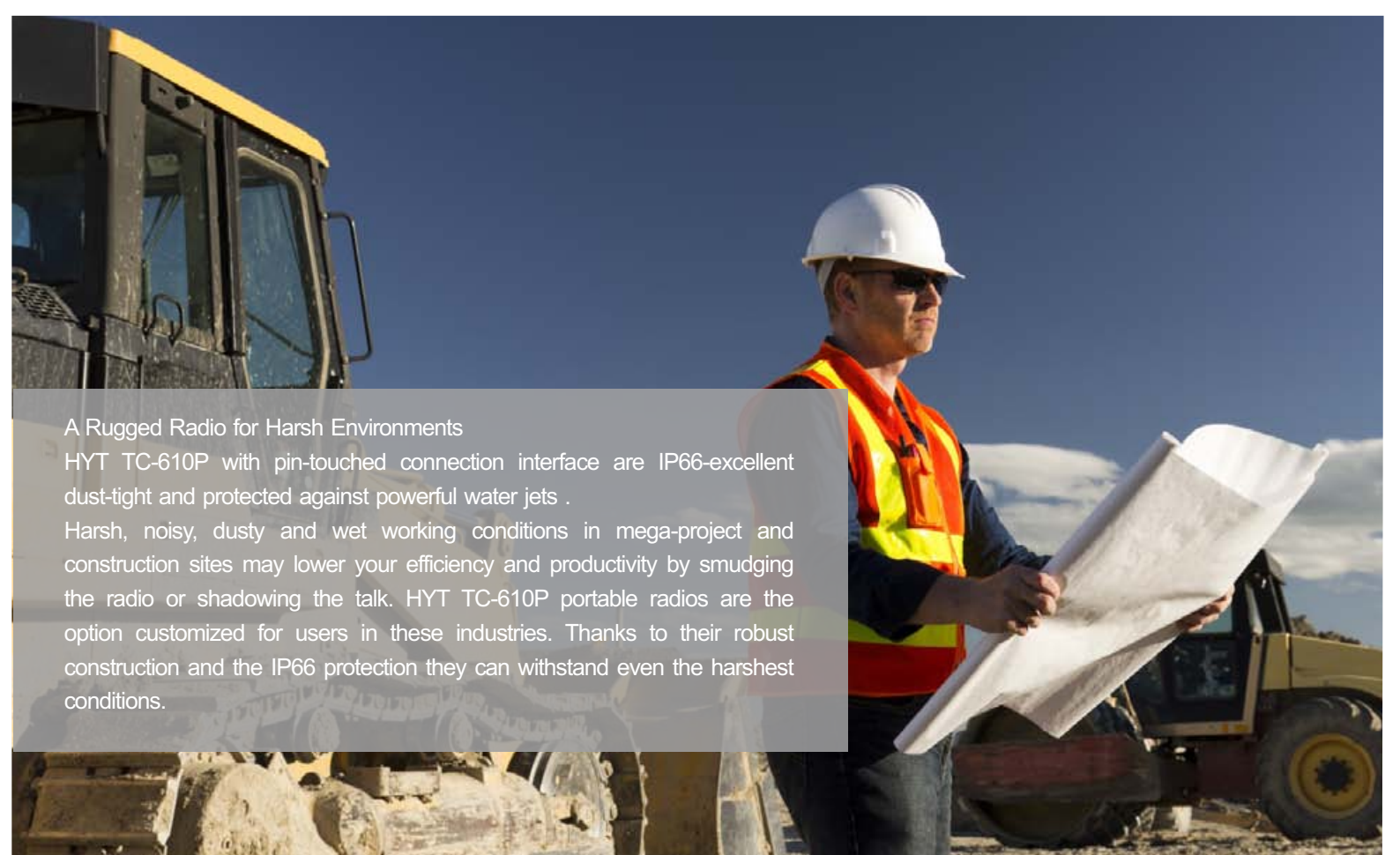
# TC-610P

**Cost Effective  
Professional Radio**



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





### A Rugged Radio for Harsh Environments

HYT TC-610P with pin-touched connection interface are IP66-excellent dust-tight and protected against powerful water jets .

Harsh, noisy, dusty and wet working conditions in mega-project and construction sites may lower your efficiency and productivity by smudging the radio or shadowing the talk. HYT TC-610P portable radios are the option customized for users in these industries. Thanks to their robust construction and the IP66 protection they can withstand even the harshest conditions.

# TC-610P

## 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

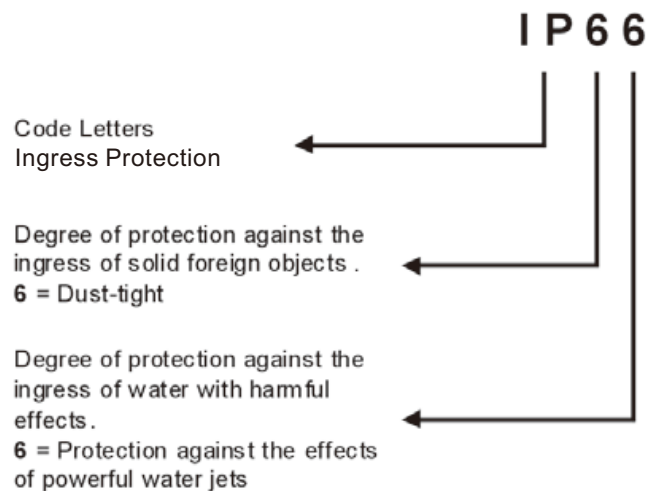
Non-display radios generally have no battery power indicator. The TC-610P series allow you to simply press one button to illuminate the tri-color LED battery gauge, which indicates battery strength levels for more effective power management.

### 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.

## Professional Two-way Radio

The IP Code is a designation that indicates the level or amount of protection. The IP Code designation consists of the letters IP (Ingress Protection Standard) followed by two numerals – example:



• 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 CTCSS/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-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
- Hotel
- Ports
- Stocking
- 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



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



Earbud with on-MIC PTT  
ESN06



Behind-the-Head, Noise-Canceling  
Headset ECN09



Noise-Cancelling Remote Speaker  
Microphone (IP56)  
SM13N5



Earpiece with on-MIC PTT &  
Transparent Acoustic Tube  
EAN04

2-wire Surveillance Earpiece with  
Transparent Acoustic Tube (black)  
EAN07

3-Wire Surveillance Earpiece with  
Transparent Acoustic Tube  
EAN02(black) /  
EAN06(beige)

2-Wire Earpiece with Wireless  
Receiver and Neck Loop  
EWN03



Remote Speaker Microphone  
SM08N1

Receive-only Earbud (for use with  
remote speaker microphone) ESS07  
Receive-only Earpiece with  
Transparent Acoustic Tube  
(for use with remote  
speaker microphone) ESS08



D-earset with Boom Microphone  
EHN08

D-earset with in-line Microphone  
EHN07

Programming Cable (COM port) PC18  
Programming Cable (USB port) PC25



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

## Transmitter

RF Power Output	5W/2W(VHF) 5W/2W(UHF)
Modulation	16K Φ F3E/8K Φ 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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