

# **HYT**

Two-way Radio


# TC-580

**Professional  
Two-way Radio**



- Powerful Front Panel Programming
- Select Call & Caller Identification
- 256 Channels & 32 Zones
- Display Reverse
- Emergency Alarm





As a combination of efficiency and practicality, TC-580 is definitely the best choice for various kinds of users. With an intelligent design of LCD, numeric keypad, wide-band coverage, 256 channels, manually programming and versatile call, TC-580 has integrated all cutting-edge analog technologies, and is capable of fulfilling any demand on conventional communication. With practical needs of mission critical workers in mind, it deserves your trust.

# TC-580

## Professional Two-way Radio

### Technical Features

#### Powerful Front Panel Programming

Large front panel buttons facilitate easy programming of nearly the whole radio parameters and functions without the need for additional equipment.

#### Select Call & Caller Identification

With the signalling of DTMF, versatile call functions are available such as caller ID identification and select call.

#### 256 Channels & 32 Zones

This channel capacity makes the radio suitable for large radio system applications or systems where channel capacity can be used to increase and simplify unique calling requirements.

Where large numbers of channels are being used, they can be grouped into smaller blocks to allow for easier navigation and segregation.

#### Display Reverse

This product supports a 180-degree reverse of the displayed content. In this way you can read the information in LCD easily without removing the radio from its holder. This would facilitate your work and enhance your efficiency.

#### Emergency Alarm

When encountering an emergency, you can use this function to sound harsh alarms and send a message to the control center for help.

### Applications

- Light industry
- Retail
- Hospitality
- Construction
- Transportation

## Main Functions

Battery Strength Indicator

Switchable Power (High/ Low)

Low Battery Alert

Busy Channel Lockout (BCL)

Time-out Timer (TOT)

CTCSS/CDCSS

Squelch Tail Elimination

Nine Squelch Levels Selectable

Channel Scan

PC Programmable

Wired Clone

Comandor

Scrambler

Whisper

VOX

Home Channel

Factory Defaults Restorable



## Accessories

### Standard Accessories

Antenna

Li-Ion Battery (1650mAh) BL1719

Rapid-rate Charger (for Li-Ion Battery) CH10L12

Switching Power (different P/N for different countries and areas)

Belt Clip BC12

Strap RO03

### Optional Accessories



Antenna



Li-Ion Battery(1300mAh)  
BL1301



Vehicle Power Adapter  
CHV09



Earpiece with on-MIC  
PTT & VOX & Transparent  
Acoustic Tube EAM12



Earbud with in-line  
PTT & VOX ESM11



Earbud with on-MIC  
PTT & VOX ESM12



D-earset with Boom  
Microphone & VOX EHM16



D-earset with in-Line  
MIC & VOX EHM15



Remote Speaker Microphone  
SM08M3



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



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



Programming Cable (COM Port) PC19

Programming Cable (USB to Serial Port) PC26

Cloning cable CP05

Note: Pictures are for reference only. Image may vary from actual product. Product function shall remain the same.



## 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: 350-390 400-470
Channel Capacity	256
Channel Spacing(KHz)	25/12.5 KHz
Operating Voltage(V)	7.4
Battery	1650mAh (Li-Ion Battery)
Battery Life (5-5-90 Duty Cycle)	12 hours above
Frequency Stability(ppm)	±2.5
Operating Temperature(°C)	-25~+65
Antenna Impedance(Ω)	50
Dimensions (H×W×D)(with battery, without antenna)(mm)	117×53×36
Weight (with antenna & battery)(g)	287

## Transmitter

RF Power Output	VHF: 5W/1W UHF: 4W/1W
Modulation	16KΦ F3E/8KΦ 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	70/50dB
Intermodulation	60dB
Spurious Response Rejection	70dB
S/N	40/35dB
Rated Audio Power Output	1W
Rated Audio Distortion	≤ 5%



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