

**HYT**

Two-way Radio

# TC-580


Professional  
Two-way Radio



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

Hytera Communications Corporation Limited

[www.hytera.us](http://www.hytera.us)



The TC-580 is the best choice for organizations requiring a low-cost analog radio with display and keypad. Possible markets include light industrial applications, retail, and hospitality. With 256 channels, front-panel programming, and DTMF Signalling the TC-580 is capable of fulfilling the need for conventional communication at an affordable price.

# TC-580

## Professional Two-Way Radio

### Main Features

#### Powerful Front Panel Programming

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

#### 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.

When larger numbers of channels are being used, they can be grouped into smaller blocks to allow for easier navigation.

#### Reverse Display Option

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

#### Emergency Alarm

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

#### DTMF Signalling & Caller Identification

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

## 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 Selectable Squelch Levels
- Channel Scan
- PC Programmable
- Wired Clone
- Compandor
- Scrambler
- Whisper
- VOX
- Home Channel
- Restorable Factory Defaults

## Applications

- Light Industry
- Retail
- Hospitality
- Construction
- Warehousing

## Accessories





### Standard Accessories

- |               |                                 |                                                 |
|---------------|---------------------------------|-------------------------------------------------|
| Antenna       | Li-Ion Battery (1650mAh) BL1719 | Rapid-Rate Charger (for Li-Ion Battery) CH10L12 |
| Power Adapter | Belt Clip BC12                  | Strap RO03                                      |

### Featured Optional Accessories



### 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		810D		810E		810F	
	Methods	Procedures	Methods	Procedures	Methods	Procedures	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 MHz UHF: 400-470 MHz
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)	Over 12 hours
Frequency Stability(ppm)	± 2.5
Operating Temperature(°F)	-13° ~ +149°
Antenna Impedance( )	50
Dimensions (HxWxD)(with battery, without antenna)(in.)	4.60 in. x 2.09 in. x 1.42 in.
Weight (with antenna & battery)(oz.)	10.12 oz.

## Transmitter

RF Power Output	VHF: 5W/1W UHF: 4W/1W
Modulation	16K? F3E/8K? 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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