Standard Accessories

Li-Ion Battery (1800mAh)	Switching Power Adapter	MCU Charger	Spring Belt Clip	Leather Strap	Antenna

Optional Accessories

Water-resistant Remote Speaker Microphone (IP57)	Earbud with on-MIC PTT	D-earset with in-line Microphone	Earpiece with on-MIC PTT & Transparent Acoustic Tube	3-wire Surveillance Earpiece with Transparent Acoustic Tube (beige)	Leather Carrying Case (swivel)	Programming Cable (USB to serial port)

For reference only.

Specifications

General Specifications	
Frequency Bands	350-400 MHz 380-430 MHz 450-470 MHz* 806-870 Mhz*
Dimensions (H×W×D)	127.5 ×54.5 ×35.5mm
Weight	295g (with battery)
Operating Voltage	7.4V
Battery	1800mAh Li-Ion battery
Battery Life (5/5/90 DutyCycle)	>16 hours
User Interface	
LCD Color Display	160 x 128 pixelswith 65K colors
Talk Groups -TMO	2048
Talk Groups -DMO	1024
Phonebook	512 entries
Scan Lists	20 lists of 20groups
Text MessageList	20
Call Log	20 Received Calls 20 Dialed Calls 20 Missed Calls

Environmental Specifications	
Operating Temperature	-20℃ ~ +55℃
Storage Temperature	-40℃ ~ +85℃
Humidity	ETS 300 019 (95%)
Water and DustProtection	IEC60529 IP57
Drop, Shock & Vibration	MIL-STD-810 C/D/E/F
RF Specifications	
RF Channel Bandwidth	25 KHz
RF Power Output	3W
RF Power Control	5 steps of 5dB
Receiver Class	Class A
RX Static Sensitivity	-112dBm (typical -116dBm)
RX Dynamic Sensitivity	-103dBm (typical -105dBm)
Maximum Audio PowerOutput	1W
GPS Specifications	
Sensitivity	⩽-138dBm acquisition sensitivity ⩽-154dBm tracking sensitivity
Accuracy	⩽10m
Cold Start (Time toFirst Fix)	<120s
Hot Start (Time toFirst Fix)	<10s

*The frequency band which is planned to be a future development, future information and availability is available on request.

All Specifications are subject to change without notice due to continuous development.

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Hytera Communications Corporation Limited

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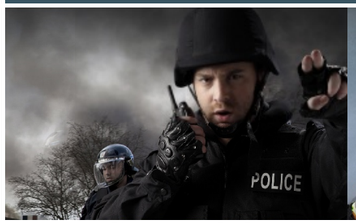
Hytera

PT580H

TETRA Portable Radio

TETRA standard

www.hytera.cn



Mission Critical

Accomplished

Highlights

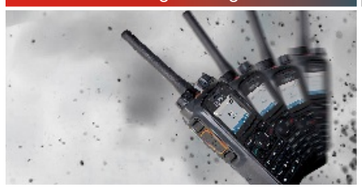
Performance Through Innovation

PT580H has a globally patented Industrial design with antenna in the middle position, providing Omni-directional antenna pattern for better coverage performance. Antenna used in PT580H is a patented design which is short in length and having GPS antenna integrated. Rotary knobs separated by antenna and different in size have made volume knob and channel selector knob easy to access.

User Friendly Interface

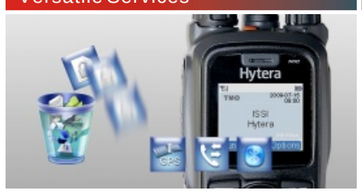
The PT580H's compact and large textured keys provide an excellent tactile feeling. The large TFT color display enables you to access pertinent information with ease, even under bright sunlight. As many as 20 programmable keys are configurable for quick access through one button operations.

Reliable Through Design



PT580H is designed to compliance to Tetra ETSI Standard, MIL810 C/D/E/F, IP57 Dust/Water Protection and Hytera ALT Test simulating over years usage. These tests ensure PT580H will stand up to the toughest conditions and environment.

Versatile Services



In addition to voice and data communication services, the PT580H also allows users to customize various functions to include; GPS, Encryption, Man-Down, etc.

Instant and Seamless Communication

The PT580H enables quick access to TETRA networks and roaming services. Additionally, PT580H provides powerful interoperability with base stations and terminals of different manufacturers.

Features

- **Operation Mode**
  - Trunking Mode Operation (TMO)
  - Direct Mode Operation (DMO)
- **Voice Services**

Group Call
- Standard Group Call
- Priority Group Call
- Emergency Group Call
- Broadcast Call
- Late Entry
- Talking Party Identification
- DGNA Service

Individual call
- Standard Half Duplex Individual Call
- Standard Full Duplex Individual Call (TMO)
- Priority Individual Call
- Emergency Individual Call
- Calling Identification
- Pre-emption Priority Call

Telephone Call (PSTN/PABX)
- Full Duplex Telephone Call
- DTMF
- Calling Identification

- **Security Services**
  - Authentication
  - Stun/Revive, Kill★
  - Air Interface Encryption
    - TEA 1
    - TEA 3
    - TEA 4
  - E2EE (End-to-End Encryption) Security Services ★
    - E2EE Encryption Module
    - Multiple Algorithm Support
  - PIN/PUK Code Access
  - Security Class 1, 2 (3 ★)
- **User Safety**
  - Emergency Button
  - Man Down
  - Talk Group Lock
  - Keypad Lock
- **Global Positioning System (GPS)** - Optional
  - Built-in and Fully Integrated GPS
  - Position Information Transmission during Emergency Call
  - Time Synchronization and Calibration
- **Ergonomic Design Feature**
  - Patented 65mm/95mm Integrated GPS Antenna
  - Unique ID with Antenna in the middle Position to provide Omni-directional Antenna Pattern
  - Easy Accessible Rotary Knob with Distanced Position Gap
  - Easy Operation and Configurable Keypad/Controls
    - -Dual Colors Tactile PTT Button
    - -Alphanumeric Keypad
    - -Emergency Button
    - -4-ways Navigation Key
    - -20 Programmable Shortcut Keys
  - High Definition and User Friendly Display
    - -160 x 128 pixels LCD with 65,000 colors
    - -Adjustable Display Brightness
    - -Screen Invert
    - -2 Languages (English/Simplified Chinese)*
    - -Tri-color LED Indicator
    - -Date and Time Display/ Calendar DIsplay
  - High Quality Audio Design
    - -Upper Microphone for Half Duplex Call
    - -Lower Microphone for Duplex Call
    - -Earpiece for Duplex Call
    - -Build-in Loud Speaker
  - Lockable Accessory Side-Connector
  - Selectable Ringing Profile

* Multi-language is available on request.

- **Data / Messaging Services**
  - Short Data Service (SDS) -- Type1, Type2, Type3, Type4, TL Data
  - Status Message
  - Circuit Data Service ★
  - Packet Data Service ★
  - Peripheral Equipment Interface (PEI)

(Due to continuous technology development, functions with a ★ mark contained will be available in future versions of PT580H.)