

Standard Accessories

Li-Ion Battery (1800mAh) BL1806	Switching Power Adapter PS1026	MCU Charger CH10A04	Spring Belt Clip BC08	Leather Strap RO04	Antenna

Optional Accessories

Earbud with on-MIC PTT ESN10	D-earset with on-MIC PTT EHN12	Earbud with on-MIC PTT EAN16	3-wire Surveillance Earpiece with Transparent Acoustic Tube (Beige/BLACK)	Programming Cable (USB to serial port) PC36	Carrying Case (Thick Battery) (Leather/Swivel) LCY003	Waterproof Remote Speaker Microphone (IP57) SM18N3
Receive-Only Earbud ESS07	Receive-Only Earpiece with Transparent Acoustic Tube ESS08	Vehicle Adapter for Charger (Output: 12V/1A) CHV09	Intelligent Multi-unit Charger (with LCD) MCA05	MCU Multi-unit Rapid-rate Charger		

For reference only.

Specifications

General Specifications	
Frequency Bands	350-400 MHz 380-430 MHz 410-470 MHz 806-870 MHz
Dimensions (H×W×D)	127.5 × 54.5 × 35.5mm
Weight	348g (with battery)
Operating Voltage	7.4V
Battery	1800mAh Li-Ion battery
Battery Life (5/5/90 Duty Cycle)	>16 hours
User Interface	
LCD Color Display	160 x 128 pixels with 65K colors
Talk Groups -TMO	2048
Talk Groups -DMO	1024
Phonebook	512 entries
Scan Lists	20 lists of 20 groups
Text Message List	50
Call Log	20 Received Calls 20 Dialed Calls 20 Missed Calls

Environmental Specifications	
Operating Temperature	-25°C ~ +65°C
Storage Temperature	-40°C ~ +80°C
Humidity	ETS 300 019 (95%)
Water and Dust Protection	IEC60529 IP57
Drop, Shock & Vibration	MIL-STD-810 F
RF Specifications	
RF Channel Bandwidth	25 KHz
RF Power Output	3W
RF Power Level Accuracy	±2dB
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 Power Output	1W
GPS Specifications*	
Sensitivity	≤-138dBm acquisition sensitivity ≤-154dBm tracking sensitivity
Accuracy	≤10m
Cold Start (Time to First Fix)	<120s
Hot Start (Time to First Fix)	<10s

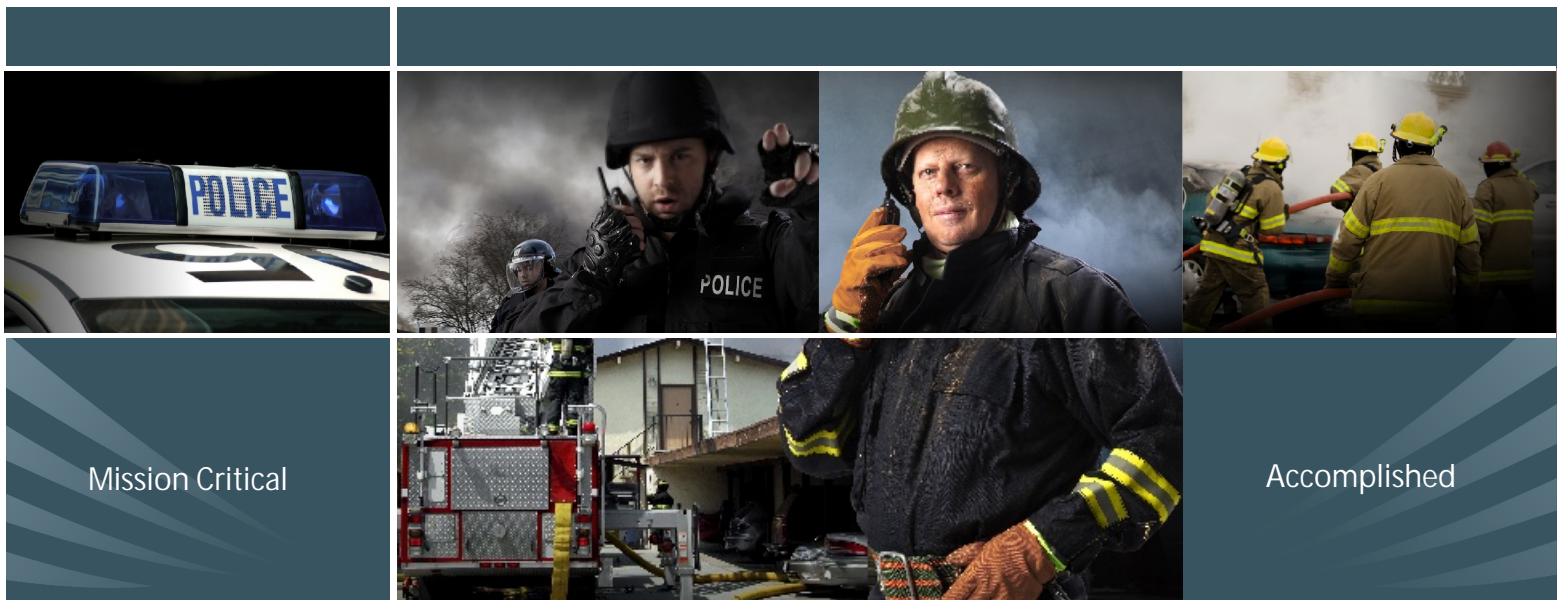
* GPS Specification condition: -130dBm Signal Strength and 95% percentile value, OPEN SKY
All Specifications are subject to change without notice due to continuous development.



PT580H

TETRA Portable Radio





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



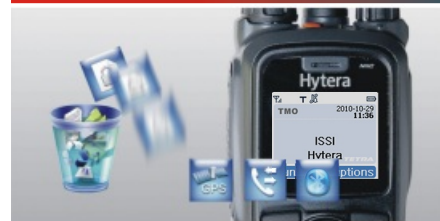
The PT580H's compact and large textured keys provide an excellent tactile feeling. The large TFT color display enables you to access pertinent information with ease, even under bright sunlight. As many as 20 programmable keys are configurable for quick access through one button operations.

Reliable Through Design



PT580H is designed to compliance to Tetra ETSI Standard, MIL810 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 <ul style="list-style-type: none"> ▶ Standard Group Call ▶ Priority Group Call ▶ Emergency Group Call ▶ Broadcast Call ▶ Late Entry ▶ Talking Party Identification ▶ DGNA Service | Individual call <ul style="list-style-type: none"> ▶ 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) <ul style="list-style-type: none"> ▶ Full Duplex Telephone Call ▶ DTMF ▶ Calling Identification ▶ Pre-emption Priority Call |
|--|---|---|

Security Services

- ▶ Authentication
- ▶ Air Interface Encryption TEA 1, TEA 2★, 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
- ▶ Terminal configuration protection
- ▶ **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 65,536 colors
 - Adjustable Display Brightness
 - Screen Invert
 - ▶ -7 Languages (English, Simplified Chinese, Korean, Russian, Spanish, German, French)*
 - ▶ -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
- ▶ Packet Data Service
- ▶ Peripheral Equipment Interface (PEI)

Easy accessible rotary volume knob and channel selection knob

Friendly UI, easy-to-use menu

Double color PTT, noticeable & enhance safety

Protecting the screen & keypad

Unique covert speaker design, compact & better audio quality

Unique antenna design, Hytera patent

Dedicated orange Emergency key

New accessories connector interface support, plug & play

Reserved tags location, convenience for user to stick user's ID