



TETRA Portable Terminal

PT5 Series

PT580H Plus (B)/(E)/(S)/(T)

PT560H (B)/(E)/(S)

PT5 series, with higher quality and extended features, is designed for professional users performing mission critical tasks. PT5 series portable terminal has IP68 protection grade, 3W high RF power (806-870mhz is 1.8W) and reception sensitivity of -118dbm, Enhanced DMO repeater, full duplex handsfree call function, clear voice and rich audio modes, built-in Bluetooth 4.0, support a variety of positioning services, and provide users with a higher quality and reliable communication experience.



PT580H Plus

PT560H





PT5 Series

Highlights

Reliable Design

PT5 series is designed to comply with TETRA ETSI Standard, MIL-STD-810 G, IP68 Dust & Water Protection. These tests ensure that PT5 series will stand up to the toughest conditions and environments.

Improved Receiving Performance

PT5 series increases the receiving sensitivity by 2 dB, which enhances the capability of capturing weaker signal in order to enlarge the coverage.

Outstanding Audio

PT5 series offers a variety of audio profiles for users. These profiles can meet the needs of different scenarios. Advanced noise suppression technology and AGC algorithm ensure clear voice.

Comprehensive Security Protection

Built-in hardware encryption module provides multiple security protection, keys and encryption algorithms protection.

Multi-satellite Location Service

Multi-satellite system location service allows PT5 series to be used globally. PT5 series supports GPS, GLONASS and Beidou location system.

Advanced Features



IP68 Protection Level



Wideband: 405-475M



Longer Battery Life
Smart Battery



DMO Full Band TX/RX



Built-in BT 4.0
BT Indoor Location



DMO Repeater type 1A

PT5 Series

Ensure Efficient Critical Communication

Patented Antenna

Patented antenna designed in middle position ensures better GPS and RF performance.

Multi-satellite Location Service

Location system supports GPS, GLONASS and Beidou.

Separate Knob

Separate knob can be operated freely without keeping watching so as to guarantee higher efficiency.

Improved Strong Screen

Enhanced materials make more strong screen. Anti-dropping performance is improved obviously.

High Receive Sensitivity

PT5 series increases the receiving sensitivity by 2 dB, which enhances the capability of capturing weaker signal in order to enlarge the coverage.

BT 4.0 Data Applications

BT Upgrading&Programming solution allows users to configure radio flexible.

Dustproof and Waterproof

IP68 guarantees usage in full of dust environment, also allows to be exposed to waterjet or be soaked in 2m water for 4 hours.

Enhanced Audio Quality

New added noise suppression chip ensures clear&loud voice communication even in noisy environment.

Smart Battery

Precise state of charge and battery capacity display indicate remaining charging time during charging process.

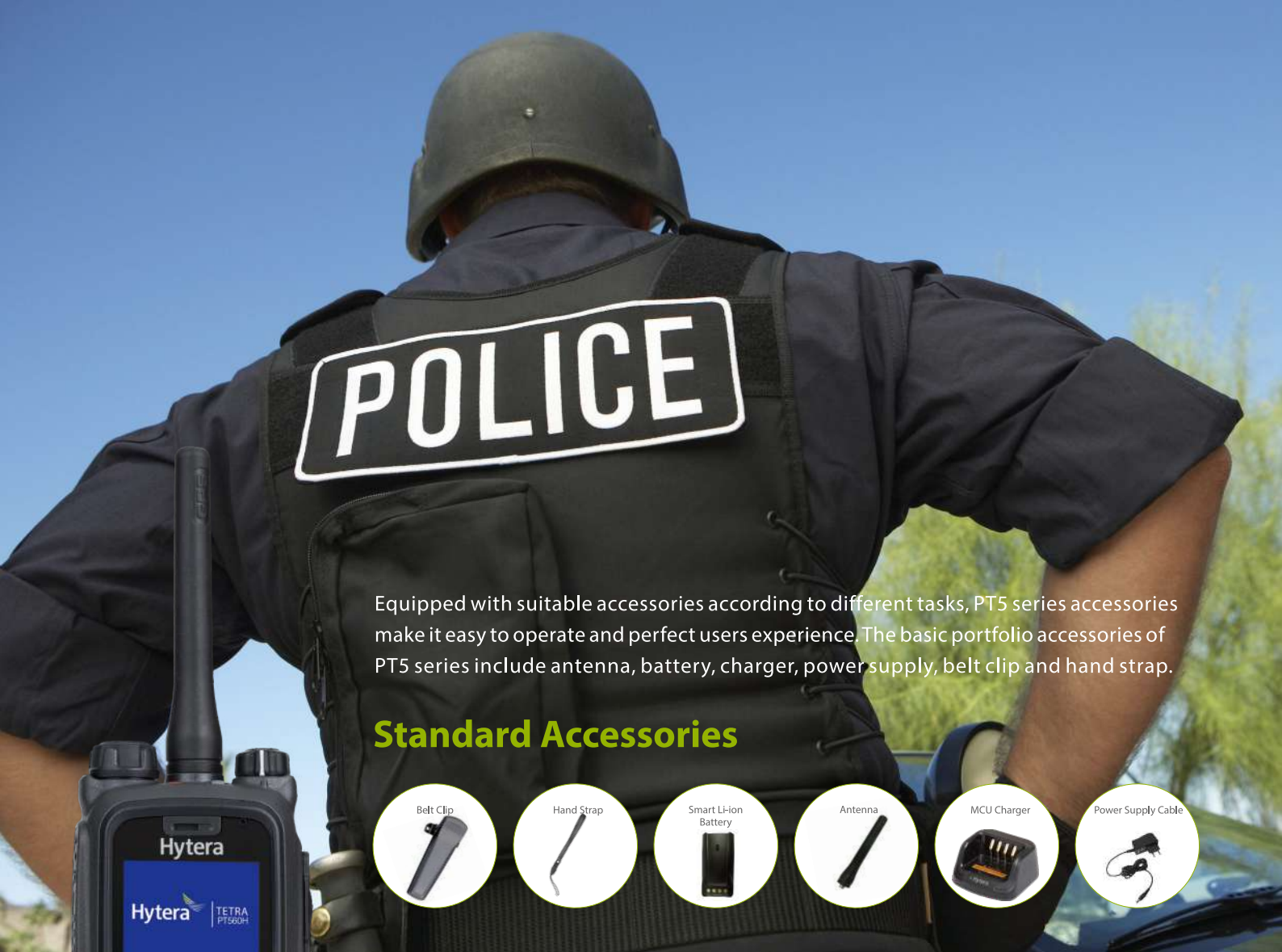
Rugged Design

Fully complying with MIL-STD-810 G, PT5 series radio shows outstanding performance in tough usage.

Easy Operation Keypad

Ergonomics keypad makes it easy to operate even with gloves.





Equipped with suitable accessories according to different tasks, PT5 series accessories make it easy to operate and perfect users experience. The basic portfolio accessories of PT5 series include antenna, battery, charger, power supply, belt clip and hand strap.

Standard Accessories



PT5 Series Versatile Accessories



Waterproof Remote Speaker Microphone (IP67)



MCU Multi-unit Charger (Also Compatible with High Capacity Battery)



2500mAh Li-ion Battery



Wireless Headset



Vehicle Adapter for Charger (DC-DC)



Dual Pocket MCU Charger Kit



3-wire Surveillance Earpiece with Transparent Acoustic Tube (Beige)



Leather Case

You can expect excellent audio performance through our robust and reliable accessory series. Audio accessories are designed to provide clear voice in noisy environments.

The rugged connector keeps connection firm. Remote speaker microphone with IP67 protection is adapted to wet, muddy or other harsh environments. In addition, wireless earpiece releases users' hands and offers users a better way to avoid the problem of tangled wires while attending to special tasks.

Features

Voice Service

- ▶ Pro-emptive Call
- ▶ Emergency Call
 - Emergency Group call to Selected Group
 - Emergency Group call to Pre-defined
 - Emergency Individual call
 - PSTN/PABX
 - Emergency phone call PSTN/PABX
 - Emergency Cycle
 - Emergency Silent
 - Emergency Protect Mode
 - Hot Mic
 - Configurable Emergency Priority
 - Location Information sending(TMO)
- ▶ DTMF
- ▶ Half-duplex call
 - Individual call
 - Group Call
 - Broadcast Call
 - PSTN/PABX
 - Open Call
 - Gateway Call(DMO)
 - Repeater Call(DMO)
- ▶ Duplex Call
 - Individual call
 - Group Call
- ▶ Fallback Operation
- ▶ Group Scanning
- ▶ Late Entry
- ▶ Notification Group
- ▶ Call Authorized by Dispatcher
- ▶ Call Default Group (PTT Work Mode)
- ▶ Individual call limit
- ▶ Energy-saving Mode
- ▶ Transmit Inhibit
- ▶ Repeater Mode



License Control

- ▶ GCK*
- ▶ SCK OTAR*
- ▶ VOX
- ▶ Temporarily Disable Enhancement
- ▶ BT Upgrading&Programming
- ▶ TETRA E2EE*
- ▶ TEA2
- ▶ SDS Template
- ▶ Drive Test
- ▶ Cell Application
- ▶ Route Trace
- ▶ Load Directed Roaming*
- ▶ Low Power Class
- ▶ TETRA Zone
- ▶ BT Indoor Location
- ▶ Work Order

*(Free Trial Applicable)

User Security

- ▶ RUA
- ▶ Lone Worker
- ▶ Man Down
- ▶ Terminal Configuration Password
- ▶ keypad locked
- ▶ Quick Emergency Call
- ▶ Ambience Listening
- ▶ No signal warning
- ▶ Low battery warning
- ▶ Multi network switching
- ▶ Voice Announcements
- ▶ Call out

Security Service

- ▶ Authentication
- ▶ Package Data User Authentication
- ▶ Air Interface Encryption
- ▶ Security Class: Class 1/2/3
- ▶ End to End Encryption
- ▶ Temporary Disable/ Enable
- ▶ Permanently Disable
- ▶ Temporarily Disable Enhancement

User Interface / Display

- ▶ Multi-language
- ▶ Java Platform 2.0
- ▶ 23 Programmable Keys (PT580H Plus)
- ▶ Flexible Dialing Ways: Rolling Dialing, Index by Symbols, etc.
- ▶ Two Independent Microphones
 - Top MIC for Half-duplex Call
 - Bottom MIC for Full-duplex Call
- ▶ Display Reverse
- ▶ Customized Terminal Menu
- ▶ Time Synchronization
 - With GPS Time
 - With System Time
- ▶ Configurable Maximum/Minimum Volume
- ▶ Input Method Editors
- ▶ Dark Blue and Light Blue Style Menu Display
- ▶ Group Application - Support for Sub-folder
- ▶ Weak Signal Area Pre-alert

DMO Repeater

- ▶ ETSI type 1A DMO Repeater for channel efficient operation
- ▶ DMO voice and tone signalling on selected talkgroup
- ▶ SDS and Status messaging on selected talkgroup
- ▶ Transmission of Repeater Presence Signal
- ▶ Participate & Initiate call in repeater mode

Data Service

- ▶ Short Data Service
 - SDS-1, 2, 3, 4, TL
 - Status Message
 - Immediate Text Message (TMO)
 - Long Text Message (TMO)
 - One Touch/ Fast Sending Status Message
 - Message Sending/Receiving During Calls
 - Message Sending via DMO Gateway
- ▶ Packet Data
 - Single-slot
 - Multi-slot
- ▶ Peripheral Equipment Interface (PEI)
- ▶ AT Command
- ▶ OTAP (Over The Air Programming)
- ▶ Status Message Solution
- ▶ WAP
- ▶ Circuit Mode Data
- ▶ Short Data Template
- ▶ Work Order
- ▶ OTAK (Over The Air Keying)
- ▶ Upgrading and Programming via BT

Location Service

- ▶ GPS/GLONASS/Beidou/BT Indoor Location
- ▶ Control Center Authentication by MS
- ▶ LIP Protocol
 - Trigger Conditions
 - Emergency Call
 - Interval
 - Distance
 - Power On/Off
 - Status Message
 - Positioning Loss/Regain
- ▶ NMEA Location Reporting
- ▶ Time Synchronization and Adjustment
- ▶ Overspeed Alarm
- ▶ Route Trace
- ▶ Display of the Calling Party's Relative Direction & Position

Hardware Options

Charge Feature	PT560H (B)	PT560H (E)	PT560H (S)	PT580H Plus(B)	PT580H Plus(E)	PT580H Plus(S)	PT580H Plus(T)
BT	—	—	✓	—	—	✓	✓
Man Down	—	—	✓	—	—	✓	✓
RTC	—	✓	✓	—	✓	✓	✓
Location	—	✓	✓	—	✓	✓	✓
Hytera E2EE	—	\$	✓	—	\$	✓	✓
Repeater	\$	\$	\$	\$	\$	\$	\$
Tamper Proof	—	—	—	—	—	—	✓

B: Basic
 E: Executive
 S: Specialized
 T: Tamper Proof
 —: Not Available
 ✓: Available
 \$: Licensed

Specifications

General Specifications	Frequency Bands	320-380MHz/380-430MHz 405-475MHz/806-870MHz
	Dimensions (HxWxD)	127.5 × 55 × 36.5mm(1800mAh battery) 127.5 × 55 × 39.5mm(2000mAh battery)
	Weight	368g (with 1800/2000mAh battery and antenna) 400g (with 2500mAh battery and antenna)
	Battery	PT580H Plus:1800mAh(Standard) PT560H:2000mAh (Standard) 2500mAh(Option)
	Battery Life (5-5-90)	>20 Hours(1800mAh) >22 Hours(2000mAh) >27 Hours(2500mAh)
	Operating Voltage	7.4V
User Interface	LCD Color Display	1.8inch, 160*128pixels, 262144colors
	Talkgroup-TMO	6000
	Talkgroup-DMO	4000
	Phone Book	2000
	Inbox	400
	Outbox	50
	Drafts	50
	Talkgroup Folders-TMO	200
	Talkgroup Folders-DMO	50
	Total Group-TMO	200X200(200 groups in each folder)
	Total Group-DMO	50X200(200 groups in each folder)
	Status Messages	200

RF Specifications	RF Channel Bandwidth	25KHz
	RF Power Output	3W(1.8W For 806-870MHz)
	RF Power Level Accuracy	±2dB
	RF Power Control	5 steps of 5dB
	Receiver Class	ETSI EN 392-2/396-2 Class A & Class B
	RX Static Sensitivity	400MHz: -116dBm(Min); -118dBm(Typical) 800MHz: -115dBm(Min); -116dBm(Typical)
GPS Specifications	RX Dynamic Sensitivity	400MHz: -107dBm(Min); -109dBm(Typical) 800MHz: -106dBm(Min); -107dBm(Typical)
	Audio Power Output	2W (Peak 3W)
	Sensitivity	≤-146dBm Acquisition Sensitivity ≤-165dBm Tracking Sensitivity
Environmental	Accuracy	≤2.5m
	Cold Start (Time to First Fix)	<35s
	Hot Start (Time to First Fix)	<1s
	Operating Temperature	-30°C ~ +60°C
	Storage Temperature	-40°C ~ +85°C
	Humidity	ETS 300 019 (95%)
	Water and Dust Protection	IEC60529, IP65/66/67/68
	Drop, Shock & Vibration	MIL-STD-810G; ETS 300 019-1-7 5M3; GJB150A-2009

All Specifications are tested according to applicable standards, and subject to change without notice due to continuous development.

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