



TETRA Portable Terminal

PT5 series

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

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

PH560H radio will further improve PT5 series high quality and abundant features for mission critical users.

Excellent Performance with IP68 water&dust ingress protection, higher RF output, clear digital voice , built-in BT and GPS positioning, The TETRA portable PT5 series will ensure call gets through anytime and anywhere.



PT580H Plus

PT560H

www.hytera.com





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 environment.

Improved Receiving Performance

2 dB of PT5 Series Radio's receiving sensitivity is improved comparing previous version, which would capture the weaker signal and enlarge 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 pretty 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 lets PT5 Series be used globally. PT5 Series supports GPS, Glonass and Beidou location system.

Enhancements:



IP68 Protection Level



Wideband:405-475M



Longer Battery Life

New added features:



DMO Full Band TX/RX



Built-in BT 4.0



DMO Repeater type 1A

PT5 Series

Ensure Efficient Critical Communication

Patented Antenna

Patented antenna designed in middle position benefit the operation over knobs.

Multi-satellite Location Service

Supports GPS, Glonass and Beidou location system.

Separate Knob

Can be operated freely without watching it or unviewable controlling.

Improved Strong Screen

Enhanced materials make more strong screen. Anti-dropping performance gets obvious improvement.

High Receive Sensitivity

2 dB receiving sensitivity is improved, which can capture the weak signal and increase the transmission distance.

BT 4.0 Data Applications

BT Upgrading & Programming solution allows users to facilitate radio modification way.

Dustproof and Waterproof

IP68 guarantee usage in full of dust environment or exposure to water jet or even soak in 2m water after 4 hours.

Enhanced Audio Quality

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

Smart Battery

Precise state of charge, battery capacity display. Indicate remaining charging time during charging process

Easy Operation Keypad

Ergonomics keypad makes it easy to operate even with gloves.

Rugged Design

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





Equipped with suitable Accessories according to different Tasks, PT5 Series accessories makes it easy to operate and elevates the 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) SM18N5



MCU Multi-unit Charger (Also Compatible with High Capacity Battery) MCA08



2500mAh Li-ion Battery BL2505



Wireless Headset with Double PTT EHW02



Vehicle Adapter for Charger (DC-DC) CHV09



Smart Charger CH20L06



3-wire Surveillance Earpiece with Transparent Acoustic Tube (Beige) EAN17



Leather Case LCY006

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

Rugged connector keeps connection firm. Remote speaker microphone has same IP67 protection is adapt to wet, muddy or other hash environment. In addition, wireless earpiece releases users' hand and offers user a best way to avoid the problem of tangled wires while attending to special tasks.

Features

Voice Service

- ▶ Individual Call
- ▶ Group Call
- ▶ Broadcast Call (TMO)
- ▶ Open Group Call
- ▶ DTMF
- ▶ Gateway Call (DMO)
- ▶ Repeater Call (DMO)
- ▶ Phone Call
 - PABX
 - PSTN
- ▶ Pre-emptive Call
- ▶ Late Entry
- ▶ DGNA
- ▶ Group Scanning
- ▶ Fallback Operation
- ▶ Emergency Call
 - Emergency Group Call to Selected Group/Group Call to Pre-Defined
 - Group/ Individual Call/ Phone Call(PABX/PSTN)
 - HOT MIC
 - Emergency Cycle
 - Configurable Emergency Priority
 - Location Information Sending (TMO)
 - Silent Emergency Call (TMO)
- ▶ Talking Party Identification
- ▶ Individual Call Restriction via Phonebook
- ▶ Group Change Voice Broadcast
- ▶ CAD(Call Authorized by Dispatcher)
- ▶ BT
- ▶ Notification Talkgroup
- ▶ Favorite Folder
- ▶ Audio Profile



License Control

- ▶ GCK*
- ▶ SCK OTAR*
- ▶ VOX
- ▶ Temporary Disable Enhancement
- ▶ SDS Template
- ▶ Drive Test
- ▶ Cell Application
- ▶ Route Trace
- ▶ Load Directed Roaming*
- ▶ Low Power Class
- ▶ BT Upgrade&Program

* (Free Trial Applicable)

User Security

- ▶ Man-Down
- ▶ Ambience Listening
- ▶ Radio User Assignment(RUA)
- ▶ Lone Worker
- ▶ Alert for Low Battery
- ▶ Emergency Protect Mode
- ▶ Call Out
- ▶ One Touch Emergency Call
- ▶ User Configuration Data Protection
- ▶ Keypad Lock
- ▶ Alert for Out of Network Coverage

Security Service

- ▶ Authentication
- ▶ Package Data User Authentication
- ▶ AIE:TEA1,TEA2,TEA3,TEA4
- ▶ Security Class:Class 1/2/3
- ▶ End to End Encryption
 - By Hytera Software (AES128)
 - By TETRA Software (AES128 / AES256)
 - By SIM card or TP chip
 - Voice Service / SDS Service
- ▶ Temporary Disable
- ▶ Permanent Disable

User Interface / Display

- ▶ Multi-language
- ▶ Java Platform 2.0
- ▶ 23 Programmable Keys (PT580)
- ▶ Flexible Dialing Ways: Rolling Dialing, Index by Symbols and etc.
- ▶ Two Independent Microphones
 - Top MIC for Half-duplex Call
 - Button MIC for Full-duplex Call
- ▶ Display Reverse
- ▶ Customized Terminal Menu
- ▶ Time Synchronization
 - With GPS Time
 - With System Time
- ▶ Configurable Maximal/Minimum Volume
- ▶ Input Method Editor
- ▶ Dark Blue and Light Blue Style Menu Display
- ▶ Group Application - Support for Sub-folder

DMO Repeater

- ▶ ETSI type 1A DMO Repeater for Channel Efficient Operation
- ▶ Repeats DMO Voice and Tone Signalling on Selected Talkgroup
- ▶ Repeats SDS and Status Messaging on Selected Talkgroup
- ▶ Transmission of Repeater Presence Signal

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;
- ▶ Package 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)
- ▶ Upgrade and Program via BT

Location Service

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

Hardware Options

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

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

Specifications

General Specifications	Frequency Bands	380-430MHz/ 405-475MHz 806-870MHz
	Dimensions (HxWxD)	127.5 × 55 × 39.5mm
	Weight	368g (with 2000mAh battery and antenna) 400g (with 2500mAh battery and antenna)
	Battery	PT580H Plus:1800mAh,PT560:2000mAh (Standard) 2500mAh(Optional)
	Battery Life (5-5-90)	PT580H Plus: >20 Hours(1800mAh), >22 Hours(2000mAh),>27 Hours(2500mAh)
	Operating Voltage	7.4V
	LCD Color Display	1.8inch, 160*128pixels, 65536colors
User Interface	Talk Group-TMO	6000
	Talk Group-DMO	4000
	Phone Book	2000
	Inbox	400
	Outbox	50
	Drafts	50
	Scan Lists-TMO	200
	Scan Lists-DMO	50
	Status Messages	200
	Folder-TMO	200X200(200 groups in each list)
	Folder-DMO	50X200(200 groups in each list)

RF Specifications	RF Channel Bandwidth	25KHz
	RF Power Output	3W(1.8W For 806-870MHz)
	RF Power Level Accuracy	±2dB
	RF Power Control	5steps of 5dB
	Receiver Class	ETSI EN 392-2/396-2 Class A & Class B
	RX Static Sensitivity	-116dBm(typical)-118dBm 800MHz-115dBm (min); -116dBm (typical)
	RX Dynamic Sensitivity	-107 dBm(Min);-109 dBm(Typical) 800M;-106 dBm(Min);-107 dBm(Typical)
GPS Specifications	Audio Power Output	2W (Peak 3W)
	Sensitivity	≤-146dBm Acquisition Sensitivity ≤-165dBm Tracking Sensitivity
	Accuracy	≤2.5m
	Cold Start (Time to First Fix)	<35s
Environmental	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, IP68
	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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