

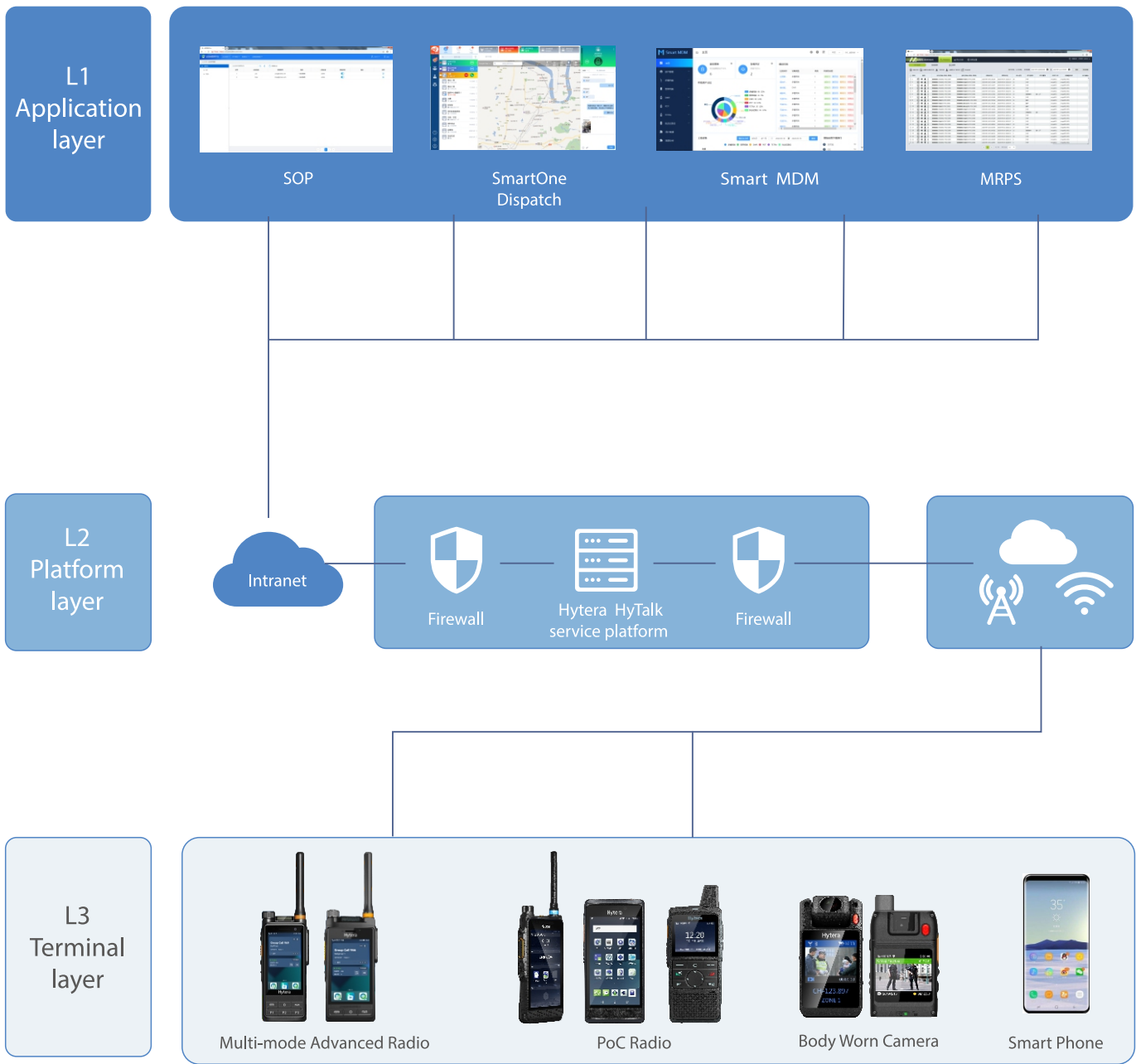
# Hytera HyTalk Solution

The Hytera HyTalk is a multimedia push-to-talk over cellular (PoC) communication solution that provides rich communication services including voice, video, data, and unified dispatch. With the Hytera HyTalk application installed on Hytera PoC radios, multi-mode smart radios or body worn cameras (BWCs), users can access PTT services through the public networks(3G/4G) and WLAN.



# Hytera HyTalk Solution

The Hytera HyTalk solution consists of Hytera HyTalk service platform, user equipment (PoC radios, smart phones, etc.), Service Operation Platform (SOP), Dispatch Platform (SmartOne Dispatch), Mobile Device Management Platform (Smart MDM), Multimedia Recording and Playback System (MRPS). The Hytera HyTalk solution can be deployed on public 3G, 4G, WLAN networks, as well as private LTE network.





## Industry Applications

With the rapid development of the social economy, the daily work content and working environment of industrial users are increasingly diversified and complicated. It is the latest demands of PTT users to not only protect existing investments, but also get access to rich multimedia services such as high-definition video and data services, in addition to the traditional voice communications.

The Hytera HyTalk solution is suitable to the following industries.



Hotel



Catering



Logistics



Transportation



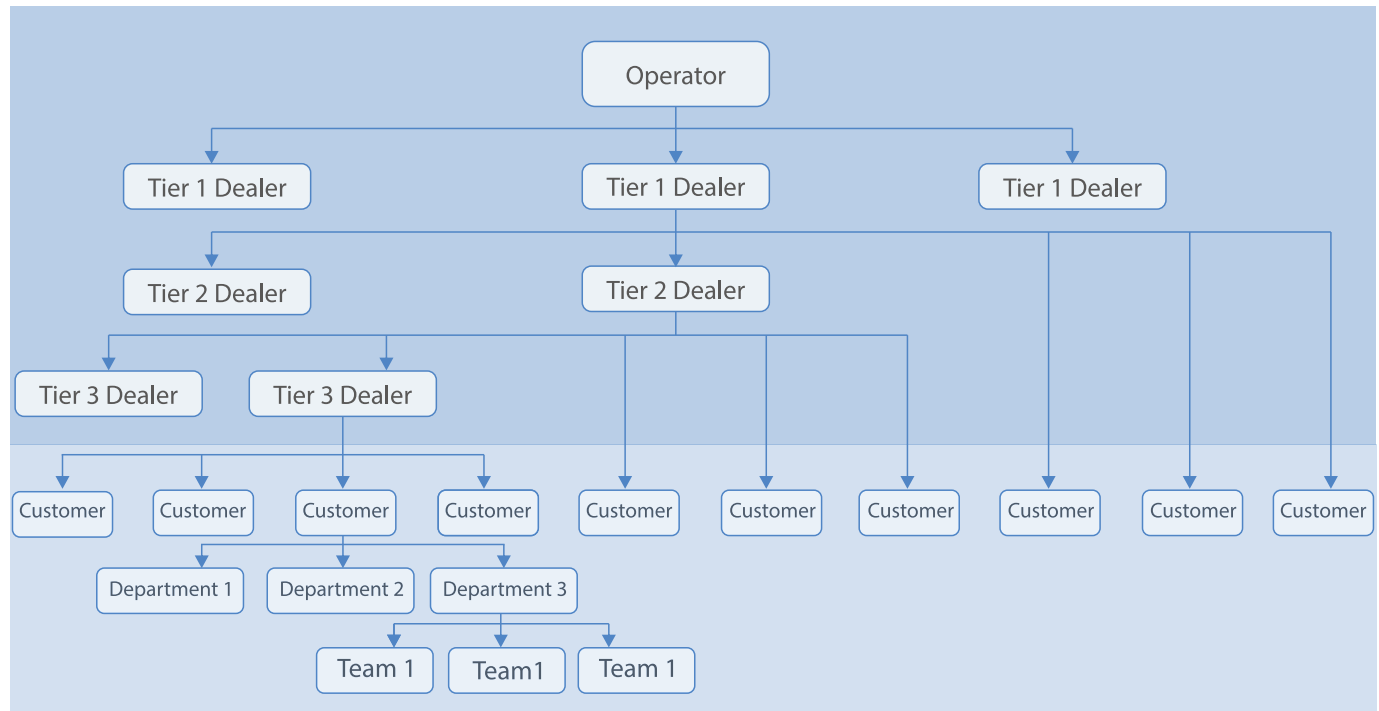
Property Management



Urban Management

## Business Model

The SOP users are divided into following types: operator, tier 1 dealer, tier 2 dealer, tier 3 dealer, and customer. SOP users at different levels have different operation permissions.



## 1. Operator

The operator sets up, manages and maintains the HyTalk platform, defines the package templates, and manages the tier 1 dealer.

## 2. Tier 1 Dealer

The tier 1 dealers get SOP account, package templates, and credits from the operator. Subsequently, the tier 1 dealers can create an SOP account for the tier 2 dealers or customers and allocate package templates and credits to them.

### 3. Tier 2 Dealer

Just like the tier 1 dealers, the tier 2 dealers are able to assign SOP account, package templates and credits to the tier 3 dealers or customers.

#### 4. Tier 3 Dealer

As a subordinate of the tier 2 dealers, the tier 3 dealers are allowed to assign SOP account, package templates and credits to the customer.

## 5. Customer

With resources obtained from the dealers, the customer can independently create and manage the organizations, subscribers and groups.

## 6. End User

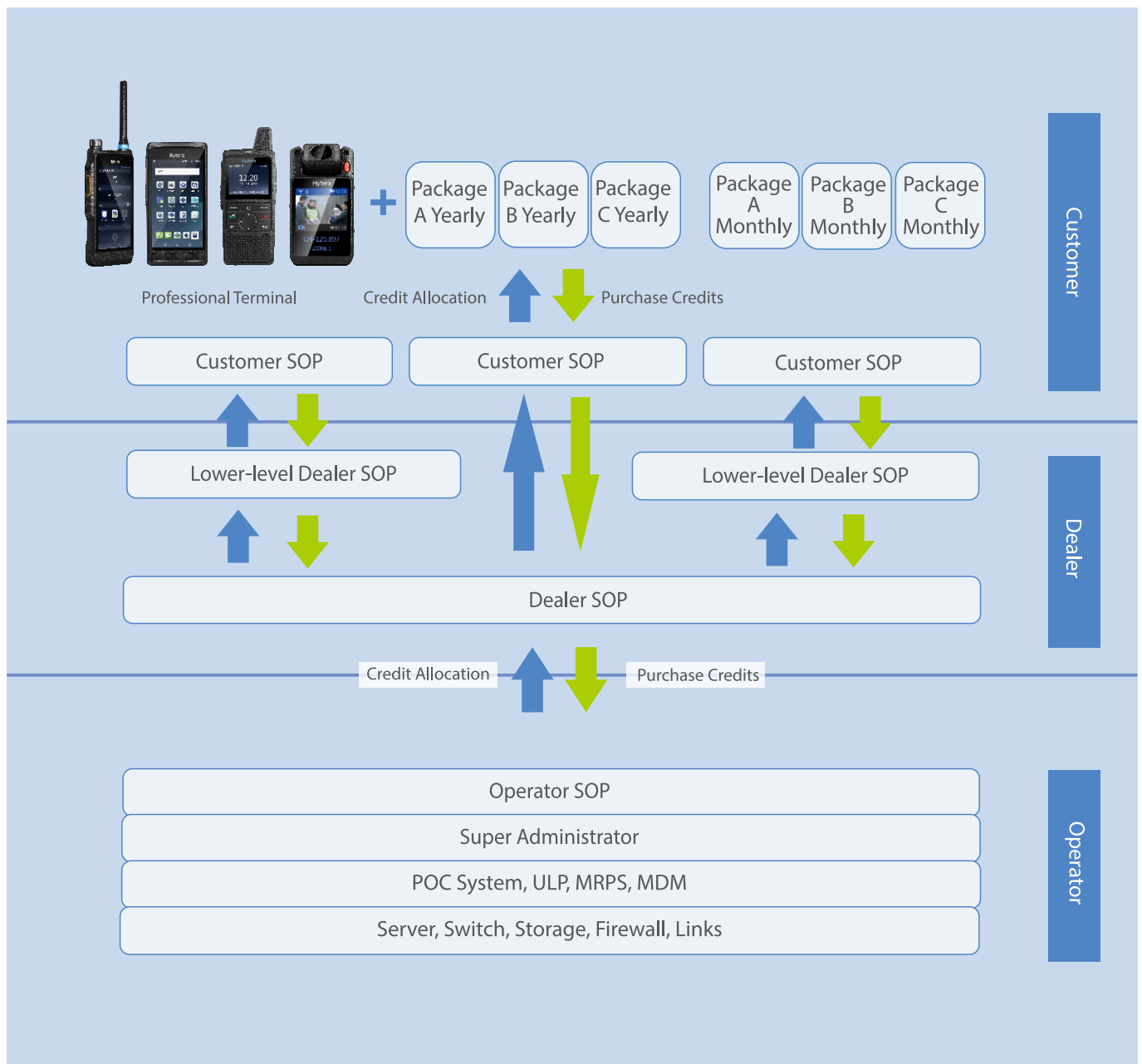
The end users include radio users and dispatchers. They get user account from the dealer or customer to log in to the HyTalk app or dispatch software. After that, the radio users can enjoy rich PoC services including voice, video, and data, while the dispatchers can perform visual dispatch, as well as voice and video recording.



## SOP

To experience the instant communication anywhere and anytime on the powerful and reliable Hytera HyTalk platform, all you need is a Hytera PoC terminal and a PoC service subscription.

- Ready to use for end users
- Low cost since there is no need to build your own platform
- 24x7 professional maintain for stable system operation
- Rich SOP features for dealers
- Flexible package customization to meet individual requirements



## Feature List



### Mobility Management

- Register & Deregister
- Authentication
- Sign in with SN/Account
- Query by SN
- DMS Service
- SIM Card Binding
- Expiration Reminder
- Customer-specific Timer Settings



### Data Service

- Private Message
- Group Message
- Private Multimedia Message
- Group Multimedia Message
- Status Message
- Store and Forward



### Call Service

- Half-duplex Voice Private Call
- Full-duplex Voice Private Call
- Emergency Call
- Video Private Call
- Video Group Call



### Supplementary Service

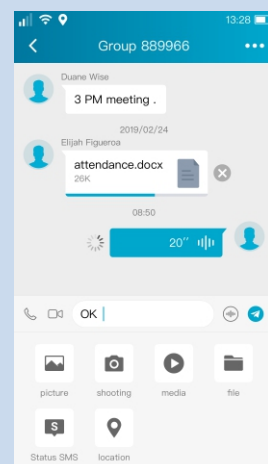
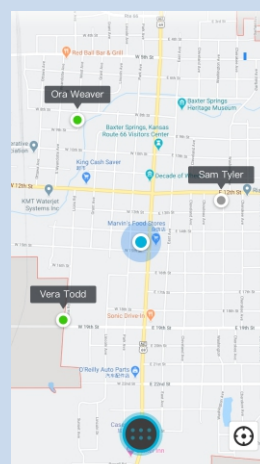
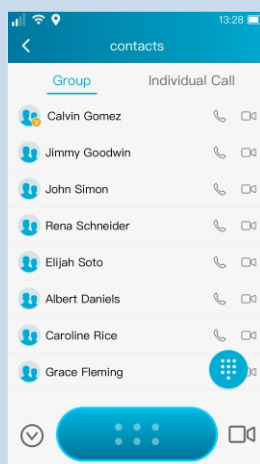
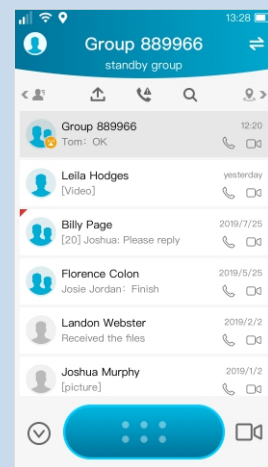
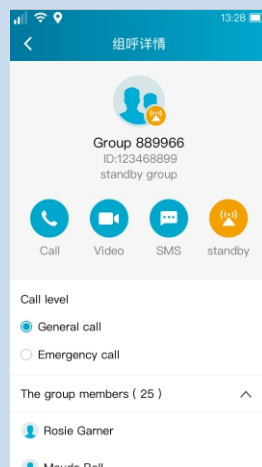
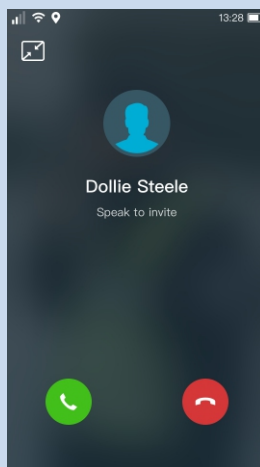
- Emergency Call
- Call Merging
- Late Entry
- Online Status
- Video Snapshot
- Video Watermark



### Dispatch Service

- Interrupt & Override
- Ambient Listening
- Location
- Push Video to Group
- Forward Video to Group
- Push Video to UE
- Forward Video to UE
- Video Pull
- Dynamic Regrouping
- Callback

## Software Interface





## Highlights



### Hierarchical User Model

The Hytera HyTalk solution adopts a hierarchical user model in the SOP. Users at different levels are granted with various operation permissions to simplify management and enhance work efficiency.



### Professional Radios

The Hytera radios are rugged and durable. With a dedicated PTT key, the radios allow you to effectively communicate with other radio users, even phone users.



### Real-time PTT Voice

Press the PTT key and make yourself heard by the other end, just at your fingertips.



### Prioritized Services

The Hytera HyTalk supports prioritizing services and ensures emergency services are processed first.



### Real-time Video Surveillance

The dispatcher can view videos from multiple users in real time.



### Flexible Deployment

The Hytera HyTalk solution can be deployed on the local server, or on the cloud.



### Flexible Package Templates

The SOP offers flexible package templates for different service combos to form packages that meet the needs of different users.



### Nationwide PTT

The Hytera HyTalk solution provides PTT service across the country relying on the existing LTE network infrastructures.



### Multimedia Messages

The Hytera HyTalk supports multimedia messages including text, voice message, pictures, videos, and location data.



### Organized User Management

The Hytera HyTalk users are presented in an organized way for intuitive and efficient management. The dispatcher can easily identify user status and monitor calls of all users.



### Visualized Dispatch

With the help of GIS, the dispatcher can locate users on the map in real time. In addition, the dispatcher can call users selected on the map, play back their history track and more.



### SN and SIM Card Binding

The radio can be uniquely bound with its SN and SIM card for higher security.

## Specifications

The Hytera HyTalk solution supports deployment on SR550 server or cloud server, and offers flexible hardware combination to meet various capacity and performance requirements of different customers.



SR550 or Cloud Server

Item	Lightweight Network	Mini Network	Small Network	Medium Network
Max active users	2000	5000	10000	20000
Max users per group	500	500	500	500
Max concurrent voice calls	400	1000	2000	4000
Max concurrent video calls	80	200	400	800
GPS subscription	600/s	600/s	1000/s	1500/s
Concurrent voice recording	300	300	300	600
Concurrent video recording	30	30	30	60

## Terminal Introduction

Hytera HyTalk solution provides a selection of PoC terminals for your choice. With Hytera HyTalk application installed on these terminals, you can access the Hytera HyTalk platform to perform voice, video, data and multimedia dispatch services.



### PTC680

Multi-mode Advanced Radio

- 2G/3G/4G/WLAN
- 140x60x29.1mm
- 325g (including standard battery)
- 3.6" HD touchscreen
- IP68, MIL-STD-810G
- 2m drop resistance
- 13MP rear camera
- Dual SIM
- Smart MDM
- GPS/BDS/GLONASS/Galileo/QZSS



### PDC550

Smart PoC Radio

- 2G/3G/4G/WLAN/DMO/RMO
- 155x75x21.5mm
- 375g (including standard battery, antenna and belt clip)
- Speaker: 1W (rated), 2.5W (Max.)
- 5MP front camera, 13MP rear camera
- Dual-mic noise reduction
- IP68, MIL-STD-810G
- Working temperature: -20°C to 60°C
- 5.0" touchscreen, 1280\*720
- BT4.1
- Drop resistance: 2m
- GPS/BDS/GLONASS/AGPS



### PNC550

Smart PoC Radio

- 2G/3G/4G/WLAN
- 156.5x76x14mm
- 250g (including standard battery)
- Speaker: 1W (rated), 2W (Max.)
- Camera: 8MP (front), 1300MP (rear)
- Dual-mic noise reduction
- Anti-shake video recording
- IP68, MIL-STD-810G
- Working temperature: -20°C to 60°C
- 5.0" touchscreen, 1280\*720
- BT4.2
- 1.2m drop resistance
- GPS/BDS/GLONASS/AGPS



### PNC380

PoC Radio

- 2G/3G/4G/WLAN
- 145.1x60x26.1mm
- 208g (including standard battery)
- Working time: >24 hours (5-5-90) (4000mAh)
- Speaker: 5W (rated)
- 8MP rear camera, for PNC380 Pro only
- IP67, MIL-STD-810G
- Working temperature: -20°C to 60°C
- Keypad, 2.0 color display, 320x340
- BT4.1
- 1.2m drop resistance
- GPS/BDS/GLONASS/AGPS





### PNC370

PoC Radio

- 3G/4G/WLAN
- 146x55.5x24mm
- 185g (including standard battery)
- Working time: >18 hours (5-5-90) (3100mAh)
- Speaker: 1W (rated)
- IP55/MIL-STD-810
- Working temperature: -20°C to 60°C
- Keypad
- 2.0" color display, 320x240
- BT4.1
- 1.2m drop resistance



### VM780

4G Body Worn Camera

- 2G/3G/4G/WLAN
- 114x61x25.5mm
- 218g (including standard battery)
- H26.5, dual-stream
- 216°swivel camera
- Night vision (5m recognizable, 10m visible)
- Continuous video recording: >9 hours
- 1.5W speaker x 2
- Dual-mic noise reduction
- IP68, MIL-STD-810G
- 2m drop resistance
- GPS/BDS/GLONASS/AGPS

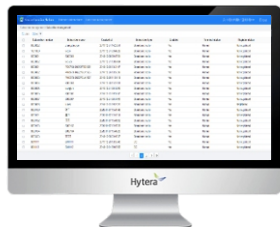


### VM580D

Body Worn Camera

- 172g (including standard battery)
- 3000mAh Li-ion battery
- Night vision (5m recognizable, 10m visible)
- Continuous video recording > 8 hours
- 1W speaker
- 1.2m drop resistance
- GPS/BDS/GLONASS

## Software Suites



### Service Operation Platform

- Easy user management
- Visualized network topology for quick troubleshooting and risk prediction
- Package management
- Operations management



### SmartOne Dispatch

- Multi-voice and video formats conversion
- Unified dispatch across different networks
- Location service
- GIS-based web dispatch
- Track playback



### Multimedia Recording and Playback System

- Massive voice, video and SMS recording
- B/S architecture with advanced search, playback and analysis functions
- Flexible centralized or distributed deployment simultaneously



### Smart Mobile Device Management

- Management of both narrowband and broadband terminals
- Batch programming, upgrade, key management, permission control, and APP push
- Quick configuration and OTAP
- Multi-level organization and RBAC



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