

Hytera HyTalk



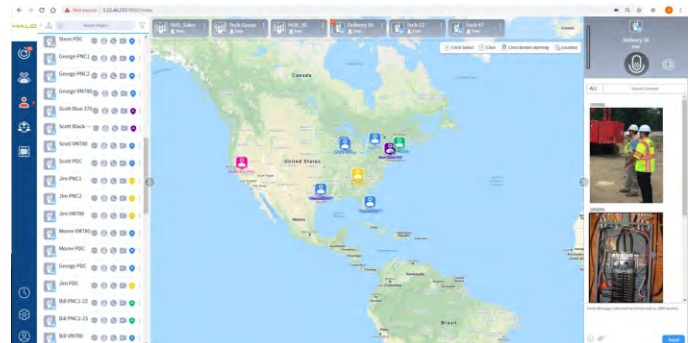
VM780 Body Worn Camera with Push-to-Talk over Cellular

The Hytera VM780 Body Worn Camera integrates a body camera with a remote speaker microphone to capture, store, and share video and audio in the field. The multi-functional design reduces equipment costs and simplifies communications.

The VM780 supports Push-to-Talk over Cellular (PoC) voice communications and can be used with the Hytera HyTalk Dispatch web-based application and other video recording and evidence collection software applications.

Nationwide Group Communications Solution

The VM780 is part of the Hytera HyTalk Nationwide Group Communications Solution that enables Push-to-Talk over Cellular (PoC) Cellular using Wi-Fi and the existing 3G/4G/LTE infrastructure of Mobile Network Operators.





VM780 Key Features

On-Site, Real-Time Video Recording

- Video can be streamed real-time back to dispatch over cellular 4G/LTE or Wi-Fi networks for nationwide monitoring of events
- H.265 high-efficiency video compression technology to reduce streaming bandwidth and data plan costs
- AES256 advanced encryption to protect all captured evidence (images, audio, and video) in local storage or during transmission

High Quality Video Capture

- 216° rotatable camera with wide angle and large field of view for flexible hand-held or uniform-attached operation
- High-resolution 16 Megapixel images and mp4/1080p video recording
- Automatic Night Vision captures images in low-light or darkness

Enhanced Safety Video Capture

- When the emergency button is pressed, the VM780 will automatically start video recording and immediately trigger the emergency alarm to control center
- Pre and post recording video buffer captures events for up to 30 seconds before/after the user turns the video recording on/off for capturing evidence

Push-to-Talk over Cellular with Group Calling

- Supports individual and group calls between dispatch, VM780, and other POC devices over nationwide cellular networks
- Clear audio with dual 1.5 Watt speakers and dual microphones

Rugged and Easy to Use

- Ruggedized design is compliant with MIL-STD 810G and IP68 water and dust protection
- Large 2.8" touch screen for easy operation and feature navigation
- Ergonomic design with tactile buttons for easy video recording

Long Battery Life

- High-capacity 3500mAh battery provides up to 8 hours of continuous video recording at 720p@30fps
- Batteries can be swapped in the field for extended use

Watermark Stamping

- Users can choose to stamp different watermarks on videos and photos, such as Date and Time, Device ID, or User ID

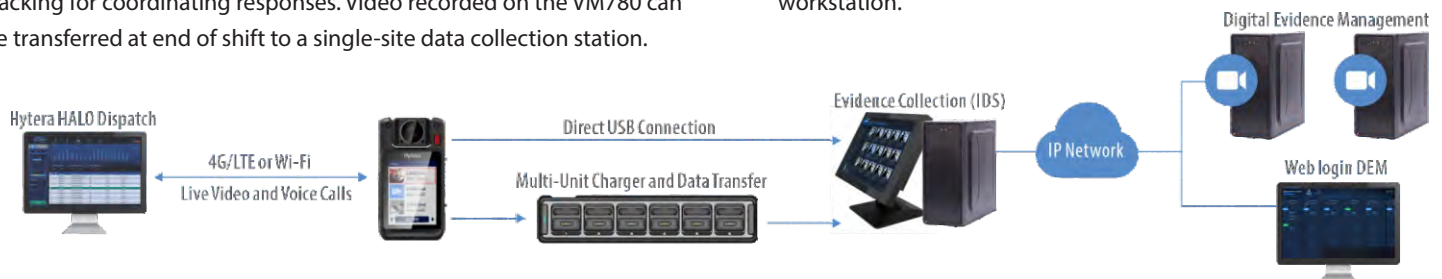
Built-In GPS Positioning

- Built-in GPS enables nationwide dispatching and location tracking

Data Transfer and Collection Solution

Video can be streamed over cellular 4G/LTE or Wi-Fi networks for real-time monitoring of security operations. Built-in GPS enables location tracking for coordinating responses. Video recorded on the VM780 can be transferred at end of shift to a single-site data collection station.

Using the multi-unit chargers with data connectivity, up to 18 VM780 devices can simultaneously upload video to a single IDS workstation.

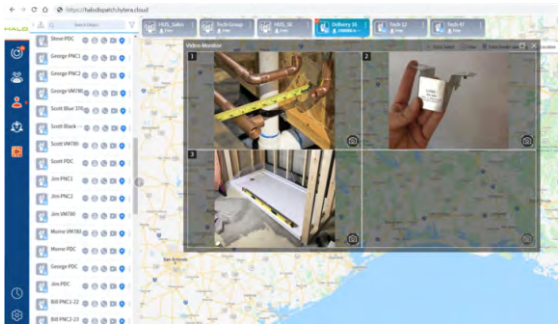


Dispatching, Video Transfer, and Evidence Management Applications



The VM780 and other Hytera PoC radios are part of the Hytera HyTalk Nationwide Group Communications Solution that includes Hytera HyTalk Dispatch, a powerful web-based communication and location dispatch application.

- Provides wide-area tracking of driver locations and travel routes with time stamps using the GPS built into the VM780
- Video conference and share video between remote VM780 users
- Instant group calling as well as individual calling for the most flexible calling available
- Dynamic groups can be quickly created with a simple list selection or geographically by selecting an area on the dispatch map



Integrated Device Station (IDS)

IDS collects and stores digital evidence from the body worn cameras connected via the multi-unit charger. With an intuitive GUI, data can be quickly reviewed, managed, and shared simply and efficiently.

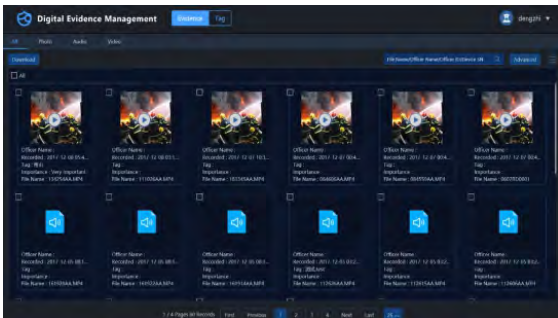
- Comprehensive device management
- Search and replay the local data
- Automatically import and upload the data to the cloud (DEM Server)
- Automatically clear the collected data from VM780
- Satisfies data protection requirements



Digital Evidence Management Platform

Digital Evidence Management Platform collects and stores digital evidence. The evidence can easily be tagged and found through key words. Different permissions can be assigned to different users for data security.

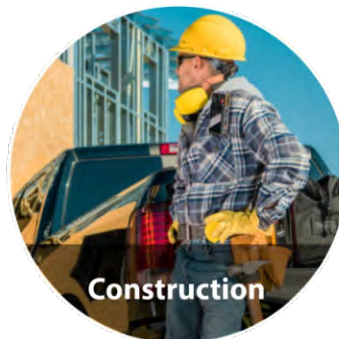
- Capable of processing massive amounts of video data
- Redundancy backup and load balancing mechanism for reliability
- Cloud server for centralized storage and control
- Automatic data upload
- Rich interface for compatibility with other systems



Target Applications for the VM780

The VM780 body worn cameras are designed for remote employees that need to transmit and share video and image data:

- Review video with dispatchers and supervisors
- Share video with remote users
- Video conference remote users



Specifications

Dimensions and Weight	Dimensions (H x W x D)	4 1/2" x 2 13/32" x 1" (114.5 x 61 x 25.5mm)
	Weight	7.23oz (205g) Including battery
Camera	Field of View	Diagonal 116°, horizontal 101°, vertical 57°
	Focus Range	0.8m - infinity
Battery	Battery Life	8 hours (continuous video with 720p@30fps)
	Battery Capacity	>3500 mAh
	Charging Time	≤4 hours
Display	Size	2.8 inch
	Resolution	240 x 320 QVGA
	Type	TFT-LCD color touch screen
Recording	Memory	16 GB/32 GB/64 GB/128 GB
	Video Format	mp4 (1080p@30fps, 720p@30/60fps, 480p@30fps)
	Video Encoding	H.264/H.265
	Audio Format	AAC
	Image Format	JPG
	Image Resolution	16 Megapixel, 5 Megapixel, 3 Megapixel
	Pre-recording/Post-recording	30s/30s (configurable to 10s, 20s, or 30s)
Audio	Speaker Power	Dual speakers, 1.5 Watts each
	Microphone	Dual microphones
Connection	Wi-Fi	802.11 b/g/n
	BT	BT4.2
	Connector	Micro USB port, 4-pin charging and data port
Environmental Specifications	Ingress Protection	IP68
	Drop Resistance	2 meters (with belt clip)
	US Military Standard	MIL-STD-810G
	ESD	Contact discharge: 6 kV; Air discharge: 12 kV
	Operating Temperature	-22°F to +140°F (-30°C to +60°C)
	Storage Temperature	-40°F to +185°F (-40°C to +85°C)
	Certification	CE, FCC, IC
Night Vision	IR Lamp	OSRAM x 6
	Night Vision Range	≤10m (low-light conditions)
	White LED	1 Watt x 1
Positioning	Satellite Positioning	GPS/BDS/GLONASS
Network	3G/4G/LTE	GSM: 850/1900 WCDMA: B2/B4/B5 TDD-LTE: B38/B40/B41 FDD-LTE: B2/B4/B5/B7/B12/B13/B17/B26/B28
Accessories	Standard Accessories	USB cable, Power adapter, Belt clip, Battery, User manual
	Optional Accessories	Multi-unit charger (with data collection function), Carrying belt, Strap

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



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Optional Accessories

Multi-unit Charger with Data Connectivity

Charge six body cameras and six batteries simultaneously. Auto export audio, videos, photos, and log files using application software and the standard USB cable.

Part number MCL30



Additional Batteries

3500mAh battery enables longer shifts (up to 8 hours) with easy-swap batteries.

Part Number BP3501



Standard Accessories

- USB Cable, Wrist Strap, Power Adapter, Battery, and User Manual.
- Pivoting clip for mounting the VM780 to belts, uniforms and body armor.

