

Hytera Digital Evidence Management Platform

- EFFICIENT INVESTIGATION
- QUICK AND EASY REDACTION
- INTEGRITY OF THE EVIDENCE CHAIN
- TAMPER-PROOF SHARING FOR ENHANCED EFFICIENCY
- REMOTE DEVICE MANAGEMENT
- SECURE EVIDENCE AND RELIABLE SYSTEM



In the era of big data and information transparency, digital evidence holds immense significance for the judiciary, commercial activities, and the Government. It can intuitively, clearly, and comprehensively reconstruct the truth, serving as credible evidence. Seeing is believing.



DEM INTRODUCTION

The cloud-native Digital Evidence Management (DEM) platform is designed to collect, store, query, and analyse digital evidence, including videos, audios, photos, and documents from body cameras or other third-party sources. The DEM supports both on-premise and cloud deployment, enabling you to create a unified media database with high security and reliability, thereby transforming evidence management into a digital, intelligent process.

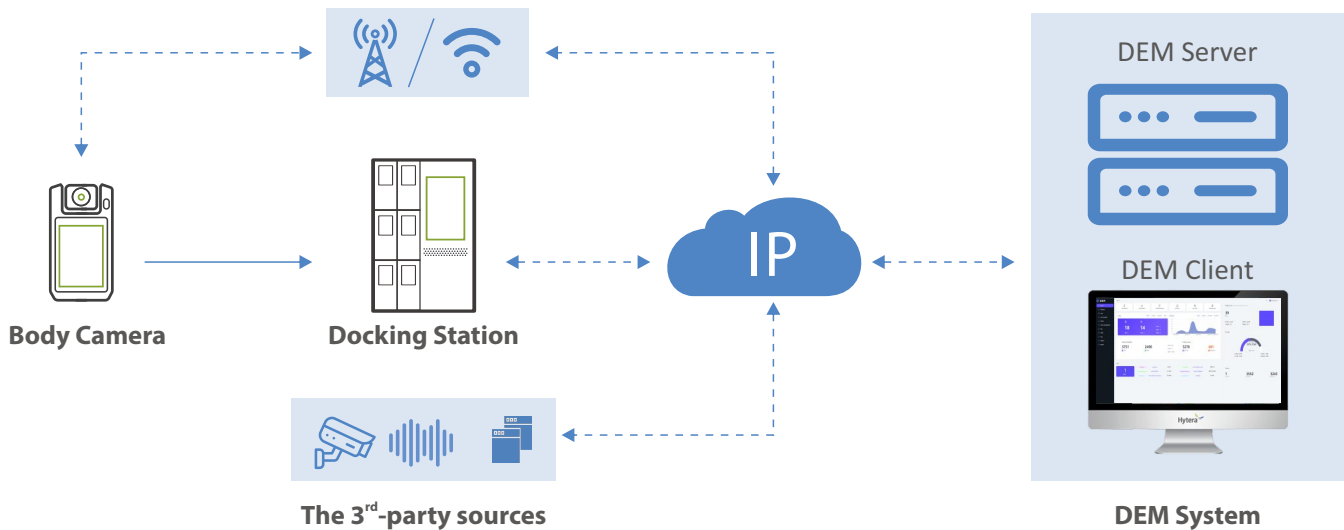


DEM Dashboard Overview:

- Home:** All evidence, My Evidence, Shared Evidence, All Cases, My Cases, Shared Cases.
- Latest Evidence:** 18 Total, 14 Video, 4 Photo, 0 Audio, 0 Others.
- Evidence Statistics:** 5751 Total, 2490 Video, 691 Photo, 8 Audio, 2562 Others.
- Evidence Level:** 5270 General, 481 Important.
- Case Management:** 1 Case Today. Includes filters for tag, external sharing, access, and download.
- Deletion List:** 39 Files to be deleted permanently in 7 days.
- Storage:** 245.2GB Available, 1.0TB Total. Breakdown: Video (0.4TB), Audio (0.1GB), Photo (1.3GB), Others (0.4TB).
- Device Management:** 1 Device Online, 3552 Offline, 3243 Inactive.

Unified Evidence Offloading

Stop struggling with fragmented, scattered information, and gather it in a unified manner. With Hytera's end-to-end solution, digital media captured through body cameras can be automatically encrypted and uploaded to the DEM for centralised storage and management.



Efficient Evidence Storage

As volumes of digital media increase, concerns over information retrieval efficiency, storage cost, and scalability become paramount. Hytera's DEM storage strategy addresses these challenges, saving you both time and operation costs.

Fast Retrieval of Evidence Information

Utilising the industry-leading database, the DEM accelerates queries across hundreds of millions of complex, massive records, swiftly presenting target information.

Flexible Expansion of Evidence Files

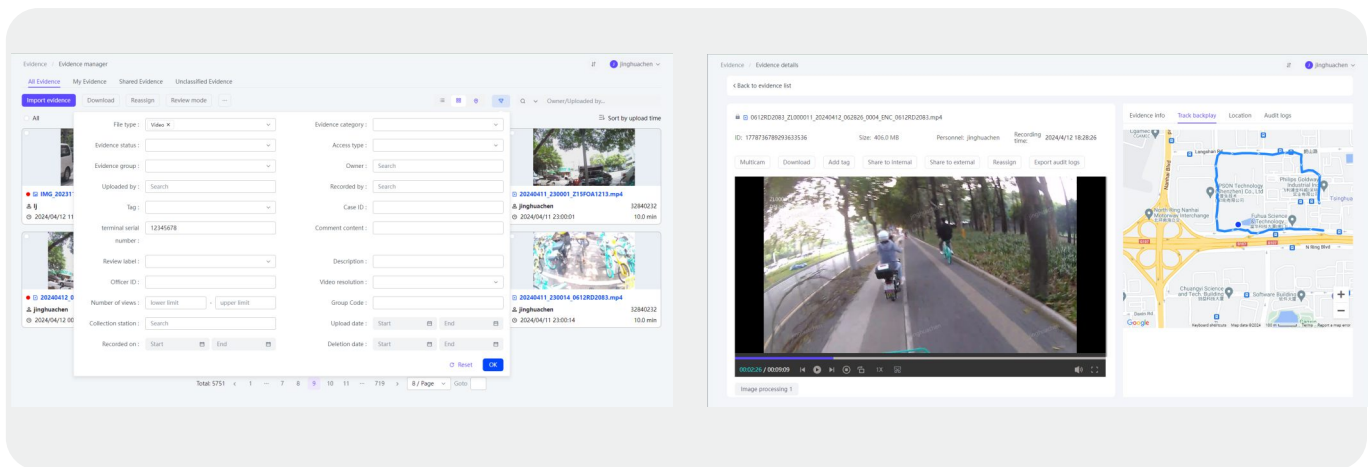
Leveraging the high scalability of Block Storage, you can flexibly scale storage according to your changing needs, even up to petabytes of storage, achieving cost optimisation and savings.

The upload concurrency is increased by 80%, supporting the establishment of a national-scale digital evidence centre. The single-point storage rate can reach up to 130 MB/s, enabling supervisors to access and review the day's evidence in a timely manner.

EFFICIENT INVESTIGATION

The digital evidence recorded by body cameras is a crucial aid for case reporting, on-site analysis, and event investigation in later stages of law enforcement. Through automatic analysis, classification, and integration of evidence metadata, the DEM can quickly present the timeline of events, movement tracks, key video and audio clips, aiding in rapid review and simplifying the investigation process.

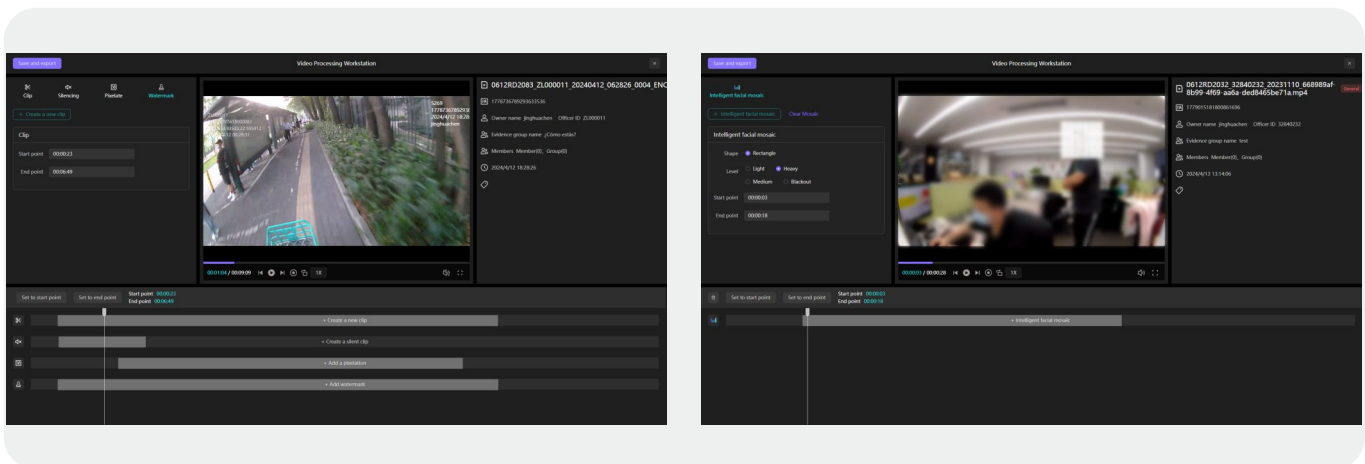
- Filter the extensive database with multiple conditions to achieve intuitive search results.
- Multi-view evidence playback showcases the full story of investigated events.
- Tracks played in sync with video illustrate where and what happened.



QUICK AND EASY REDACTION

When evidence needs to be made public due to public opinion or trials, it often requires limitation and desensitization, which is typically a slow and expensive process. The DEM provides efficient features that significantly reduce redaction times and costs whenever possible.

- By keeping the original file unaltered, the DEM quickly renders copies after redaction, such as video clipping, silencing, adding mosaics, and watermarks, etc.



INTEGRITY OF THE EVIDENCE CHAIN

- Once the evidence is captured, all activities taken by anyone around the evidence are tracked as logs to protect the chain of evidence, whether on the DEM or on body cameras and docking stations.
- Generate Log Audit Reports for specified evidence, cases, and devices to fulfill the purposes of investigation, archiving, and ensuring admissibility when testifying in court.

The image shows two screenshots from the DEM interface. On the left, an 'Export audit logs' dialog box is open, allowing users to select a scope (e.g., 'Select period' from 2024-04-08 to 2024-04-15), choose a file type (PDF), and add a watermark. On the right, an 'Audit Report' document is displayed, titled 'Electronic Evidence Case Management', showing a detailed log of system activities and a table of evidence items.

TAMPER-PROOF SHARING FOR ENHANCED EFFICIENCY

The DEM helps you share evidence, cases, and other information in a time-saving, secure, and traceable manner, whether internally or externally. Sharing facilitates better collaboration with your partners and enables evidence presentation in court or media.

- You don't need to worry about malicious tampering or artificial synthesis of the shared evidence. The DEM automatically verifies its authenticity and integrity by providing an attached Authorisation Certificate.

The image contains a screenshot of the 'Share evidence' interface on the left and a diagram on the right. The screenshot shows a form for sharing evidence, including a 'Shared title' field, 'Internal sharing duration' options (Always until deletion, 1 year, 180 days, 90 days, 30 days, Custom), and a 'Members' table with columns for Case name, Members, and Operation. The diagram on the right, titled 'DEM', shows two 'Admin' icons connected by a 'Share Evidence/Case' arrow, labeled 'Internal'. Below this, an 'E-mail Link' arrow points to an external user icon, labeled 'External'.

Security

Fine-grained Access Control

The DEM allows you to implement comprehensive and fine-grained access restrictions based on the user's role, ensuring that users can only operate within their permissions.

Evidence Leak-proof

The media captured by body cameras can be encrypted frame by frame using a 256-bit key combination, which must be decrypted on the DEM. Even if the media is accidentally obtained by others, its content will remain secure and avoid unauthorised disclosure.

Tamper-proof Evidence

Combined with the MD5 and hash algorithm, the evidence is hashed and encrypted twice to generate a unique file signature, which is used to verify the originality and integrity at every step of the evidence upload.

Reliability

Database Disaster Recovery

In terms of data backup strategy, the DEM adopts a combination of full backup and incremental backup, utilising less disk space and backup time in exchange for higher data integrity and reliability.

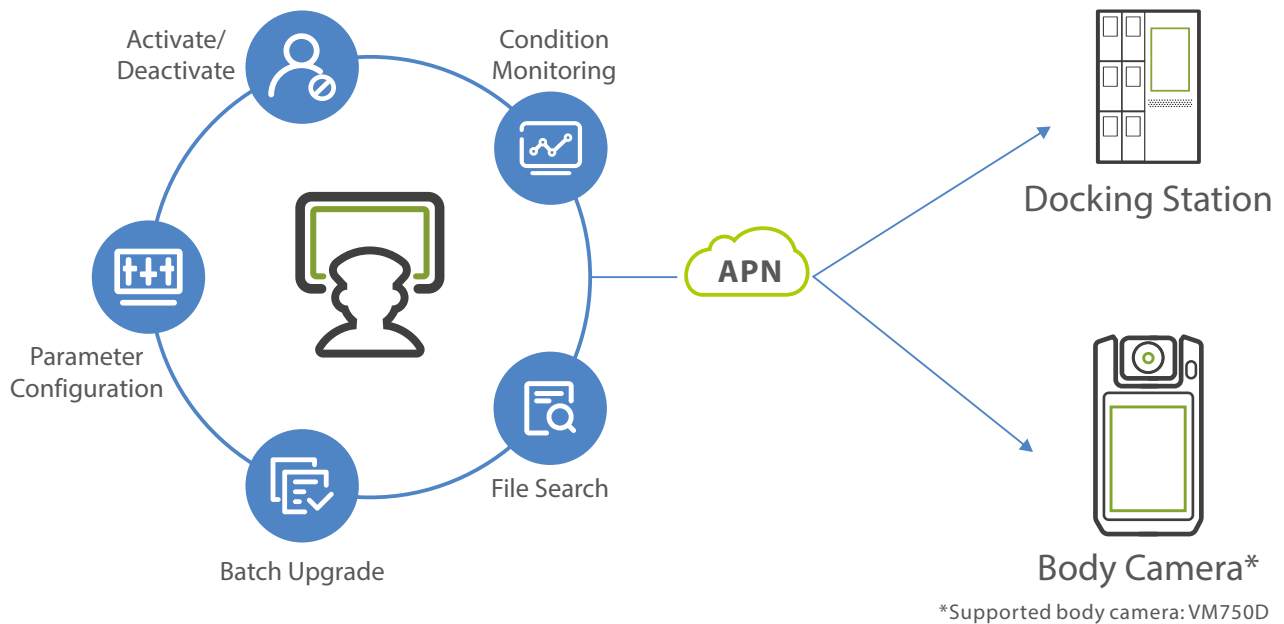
Mature and Reliable System Architecture

- Supports smooth expansion to handle more requests.
- Supports cluster deployment to ensure continuous and reliable operation of the system, and enhance resource utilisation.
- Enables faster delivery of new or customised features to customers.



REMOTE DEVICE MANAGEMENT

The DEM provides you with a fast and easy way to manage the body camera and docking station through a dedicated APN link. You can access status information of devices and personnel, upgrade devices in batches, and more, thereby boosting productivity.



Industry Application





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