

MCENTERB

Professional mobile platform



System Overview

Mobile Center is a professional platform for mobile surveillance. Focusing on the safety and protection on road transportation, public transport and long distance transportation, it integrates video monitoring, electrical map, alarm linkage, intelligent analysis and maintenance, remote operation maintenance together to form a flexible, scalable, highly reliable and powerful central management system.

The client-server structure provides integrated management, easy connection and multiple businesses cooperation. Basic functions such as management on user permissions, devices, alarms, and central storage make it a professional mobile vehicles management platform.

Highlights

Video Surveillance

Supports live view, playback, video wall and audio intercom on important regions. Connection with other cloud platform, and operating on Iphone, Ipad and Android are available.

Alarm Linkage

Manage alarms through regional devices and intelligent rules. You can also link the alarm with videos, recordings, messages, Emails, video wall, audio intercom and PTZ preset.

Electrical Map

Supports Google offline map, Gaode online map, raster map and Baidu map. Operations such as real-time and real-location video monitoring, vehicle history track search, vehicles passing search and positioning trace are available.

Statistical Maintenance

Real-time detection and analysis on the status of the device, user, system, disk and network. The platform supports viewing logs of user and system management, and business operations.

Active Security

Integrate active security devices to report alarm information such as locations, images and short videos showing on one interface. Graphical display of the alarm statistics is supported.

Driver and Vehicle Management

Supports driver and vehicle information distribution, display of distribution progress and records, and supports alarm linkage to video, video recording, users management, e-mail configuration, wall mounting and PTZ management.

Wi-Fi Backup

Supports access to EVS device, realize fast video backup of video through Wi-Fi, and supports search of backup video.

Remote Operation Maintenance

Supports remote operation maintenance of devices, including device status monitoring, command sent, parameter sent, remote upgrade, and terminal data collection.

History Alarm

Display all historical alarms on the platform and view historical alarm records.

Functions

• Mobile Center Web Manager

Device Management

Device initialization: Initialize Dahua's device.

Add devices via auto search, IP, Domain, IP Segment, auto register (for 3G, 4G, DHCP device).

Manage Dahua devices such as network camera, network speed dome, MNVR, NVR, MDVR, DVR and more.

Modify the IP address of Dahua devices.

Modify passwords of the added Dahua devices.

Bind the associated cameras, which is very convenient for alarm configuration to link the bound cameras.

Role and User Management

Manage the user's permission via role.

User can be assigned with the roles to obtain the corresponding permissions.

User can be restricted by the MAC and expiry data.

Setting PTZ permission for user.

User can be locked.

Supports import domain user and assign roles to the user.

Organization Management

Achieves device group management via organization.

Event Management

Alarm type: Device, video channel, active security, alarm input, intelligent channel, mobile device.

Active safety alarm type: DSM & ADAS.

Alarm Scheme: All day template, Weekday template, Weekend template and custom template.

Alarm Priority: Low, Medium, High.

Linkage: Record snapshot, live video, alarm output, PTZ, video wall, E-mail, User.

Storage

Supports edge storage and central storage.

Central storage: Extend storage via iSCSI.

Creates record plan by time template: All day template, Weekday template, Weekend template and custom template.

Backup the video from the edge storage, like EVS, NVR, DVR and more by schedule.

Backup the video from MDVR by Wi-Fi.

Disk Quota: Group the disk, and cameras can be allocated to different disk groups.

Video Wall

Supports screens combination.

Bind the decode channel with the corresponding screen.

Map

Google online map, Google offline map.
Up to 8-level sub map.

Mobile

Remote device upgrade: perform remote device upgrade on the web page by uploading upgrade package
Batch configuring device
Mobile information configuration

EVS Record Backup

Record backup plan: supports create normal/temporary plan
Record backup progress: supports search real-time backup progress
Task sending record: supports search task sending record
Historical backup record: supports search historical backup record

System Configuration

Supports importing HTTPS certificate.
Synchronize time from the server and devices (when logging in).
Configure logs, alarms and GPS information.
Configure Email server.
Configure active directory.

Service Management

Delete the sub server
Enable and disable sub servers
N+M management

Backup and Restore

Automatically backup system database (daily, week, month).
Manually backup system database.
Restore system database from server or local file.

Log

System, admin, client log.
Search and export log.

System Dashboard

Running Status: CPU, storage, bandwidth.
Service, device and user online information, device health report.
Event Information Statistics: total events and processed.
Source Information: Video channel, alarm channel.

Cascading Management

Add subordinate site for cascading.
Superior level can view the live video and video record of subordinate site.

• Mobile Center Client**Language**

Simplified Chinese, English, Turkish, Italian, Portuguese

Live View

Displays device tree, shows or hides offline device.
Displays the device IP address or device name on the device tree.
View real-time video.
Common layout (1,4,9,16) and customized layout.PTZ control.
Electric focus.
Manual recording (store on PC or central storage).
Snapshot.
Live mode, map mode and live&map mode.
Real-time alarms.
Process alarms.
Send message to devices.
Audio talk.
Turn on/off the audio in live view.
Key monitoring.
Display vehicles&mpts by selecting devices of device tree.

Supports NKB1000 to control camera on Live View.
Adjust the display mode (full screen and original).
Live video quick positioning on Map.
Basic device setting: Camera properties, video, audio.

Playback

Replay from the front-end devices or central storage.
Video filter: Normal, motion, alarm.
Sync play.
Reverse playback of central record.
Slow and fast forward (up to 64X and 1/64X).
Playback frame-by-frame.
Lock or mark the important record for central storage.
Download the video, supports avi, dav, flv, mp4, asf.
Decode the video to video wall.
Fisheye dewarping.
Adjust the video image.
Snapshot.
Quickly switch to live view.
Adjust the display mode (full screen and original).
Common layout (1,4,6,8,9,13,16,20,25,36) and custom layout.
Supports thumbnail search.
Supports smart search.

Download Center

Download record from central storage or device, avi, dav, flv, mp4 and asf formats supported.
Download record by timeline, files or tags.
Supports multi-task downloading.

Video Wall

Decode the real-time video to wall.
Manually or automatically decode to wall.
Manage the video wall split.
Change the stream type of video channel.
Tour the video channel in one screen.
Schedule plan: Setting the running task on timeline.
Tour plan: Looping different tasks, and each task has duration time.

Operation Panel

Displays the information of current month.
Bar charts to display active security alarm, electrical fence alarm, alarm type and alarm rank data.

Passenger Flow Trend

Passenger flow statistics based on vehicles.
Passenger flow statistics based on lines.
Check site passenger flow details.
Check real-time number of people in the car.
Graphs and charts to display passenger flow statistics of single or multiple up-line and down-line.
Modify the name of bus stops.

Alarm Analysis

Pie charts to display the ratio of the processing status of alarms.
Statistics data to display the relationship between the alarms and mileage of the selected vehicle.
Pie charts to display the basic information of searched driver and various alarm type.
Supports displaying the search results crossing days or months.
Supports exporting search results.

Mobile Playback

Video playback
Track playback

Tour Configuration

Manages tour tasks.

Basic Information Management

Driver management

Vehicle management

Driver picture sending status

Electric Fence Management

Configure and send electric fence to the device

Mobile

Supports video, map, video/map mode

Receive vehicle alarm and active safety alarm in real time

Supports displaying device, electronic fence, site on the map

Support map ranging, surface measurement, marking, reset

Enable or disable aggregation

GPS Statistic

GPS mileage statistics

GPS abnormal statistics

GPS details statistics

Alarm Center**Event Center**

Real-time alarm information.

Alarm detail info, like live video, record and pictures from related camera, alarm source location on the map.

Acknowledge the alarm.

Arming control for alarm source.

Forwards the alarm to relevant user.

Manually send alarm email to relevant person.

Search alarm by alarm source, alarm time, status, handle user and priority.

Search alarm events and export the alarm list.

Active safety alarm

Supports to view and process active security alarms, support to view alarm pictures and videos

Alarm type: smoking, answering phone calls, lens tampering, drowsy driving, distracted driving, leaving, not wearing seat belts, lane departure, forward collision, headway monitoring, wearing infrared blocking glasses, driver abnormality, driver change

Electric Fence Alarm

Supports to view and process fence alarms

Detection type: driving into/out of the departure zone, driving into/out of the driving zone, driving into/out of the prohibited zone, driving into/out of the arrival zone, regional overspeed

License Plate Detection

Supports to view and process license plate detection alarm, supports to view alarm pictures and videos

Face Detection

Support to view and process face detection alarms, supports to view alarm pictures and videos

BSD Alarm

Supports to view and process BSD alarm, supports to view alarm pictures

Hard Disk Failure

View the number of disk failures and their latest occurrence time

Local Video

Supports playing video files of dav and MP4 format

Face Database Management

Face database management: supports the addition/deletion/modification of face database and distribution of face database.

Face database configuration: supports adding/deleting/modifying/batch importing/exporting personnel information.

Distribution progress of face database: supports the display of distribution status/progress of face database and redistribution.

Face database distribution records: supports the display of distribution records.

ANPR Database Management

ANPR database management: supports the addition/deletion/modification of ANPR database and distribution of ANPR database.

ANPR database configuration: supports adding/deleting/modifying/batch importing/exporting ANPR information.

Distribution progress of ANPR database: supports the display of distribution status/progress of ANPR database and redistribution.

ANPR database distribution records: supports the display of distribution records.

Line and Site Management

Site management: supports site addition/deletion/modification/batch import/export

Line management: support line addition/deletion/modification/export, and route station information configuration

Line distribution progress: it supports displaying the line distribution status and redistributing the failed lines

Line distribution records: support displaying distribution records

Remote Operation Maintenance

Terminal status monitoring: Support batch reading terminal parameters, channel status refresh display in real time

Terminal instruction sent: can remotely restart the terminal, batch clear alarm data, simulate instruction delivery and hard disk formatting.

Terminal parameters: Support remote terminal parameter

Settings, including license plate infor, delay for shutdown, speed ratio, abnormal events, basic platform parameters, etc.

Video parameters: Support remote OSD parameter setting, mirror mode, audio and video parameter setting, can be configured in batches.

AI parameters: Support remote ADAS, DSM, ICM and BSD intelligent parameter Settings.

Remote upgrade: Support remote terminal device /IPC device package upgrade.

Terminal data acquisition: Supports remote acquisition of vehicle device data, including device logs, serial port logs, gps data, network packet capture, etc.

Operation logs: You can view user management and remote upgrade operation logs.

O&M Authorization management : Authorization of O&M modules can be added to devices. Unauthorized devices do not allow O&M modules to go online.

History Alarm Center**History Event Center**

Supports viewing history alarm information .

Alarm details, real-time video, video and pictures, the location of the alarm source on the relevant camera and map.

Search by alarm source, alarm time, status, user, priority.
Search for alarm events and export alarm lists.

Active Safety Alarm

Support to view the history of active security alarm, support to view alarm pictures and videos.

Alarm types support: smoking, answering phone calls, lens blocking, tired driving, distracted driving, leaving work, not wearing seat belts, lane departure, forward collision, too close to the car, wearing infrared blocking glasses, driver abnormality, driver change.

History Electric Face Alarm

Supports viewing history electric fence alarms.

Alarm type support: Alarm type support: driving into/out of the departure zone, driving into/out of the driving zone, driving into/out of the prohibited zone, driving into/out of the arrival zone, regional speeding.

History Face, License Plate Detection Alarm

Support to view history face, license plate detection alarm, support to view alarm pictures and videos.

History BSD Alarm

Support to view the history BSD blind area alarm, support to view the alarm picture.

• **Mobile Center APP**

History Record

Show recently viewed channels, you can open live video or playback via history records.

Live View

Open more than one channel at same time, up to 16 channels.
Three stream type: HD (High Definition), SD (Standard Definition), FL (Fluency).
Supports PTZ control.
Supports horizontal screen play.
One-key switch to playback.
Snapshot, local record and audio talk.

Playback

Replay device record and center record (Up to 8 × and 1/8 ×).
The calendar shows whether there is a video on that day.
Supports Snapshot.
Manually do local record.
Supports 1 ×, 2 ×, 3 ×, 4 ×, 1/2 ×, 1/4 ×, 1/8 × playback.
Quickly view video of channel added to the favorite.

Alarm Center

Subscribe the alarm.
Alarm processing.
Alarm video and alarm picture.
Alarm search.

Map

Supports Google map.
Displays the video channel on the map.
View video and do playback.

Favorite

Quickly view video of channel added to the favorite.

File Management

View picture and video via local file.mileage of the selected vehicle.
Pie charts to display the basic information of searched driver and various alarm type.
Supports displaying the search results crossing days or months.
Supports exporting search results.

Performance Specification

Performance specifications	
Org, User and Role	
Organization	10 hierarchies, 999 organizations per hierarchy
Role (User Permission)	100
User	100 online users and unlimited users
User for VDP Mobile APP	500 online users and unlimited users

Device and Channel	
Service Configuration	
Minimum	500 devices, 1,000 video channels
Recommended	1,000 devices, 2,000 video channels

Media Transmission Server	
Video input per server	600 Mbps
Video output per server	600 Mbps

Playback, Storage and Download	
Playback bandwidth per server	100 Mbps
Video storage bandwidth per server	600 Mbps
Maximum storage device number per server	5
Download task	5
Maximum Record Plan	100

Event	
Event Rules	200
Number of alarm reception without pic	150
Number of alarm reception with pic	50
Alarm Records	5,000,000*

Map	
Hierarchy	21
Submap	8
Spots per Map (Number of vehicles)	Up to 1,0000

Distributed System	
Number of services	
Number of sub server	Up to 5
Devices and channels	

Auto-Register	5,000 devices, 10,000 channels
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Devices and channels	
Auto-Register	5,000 devices, 10,000 channels

Running Environments	
OS for Server	Windows 10 (64-bit) /Windows Server 2012/Windows Server2016/Windows Server2019
OS for Control Client	Windows 7/Windows 10
OS for Mobile Client	IOS: IOS 13.0 and later Android: Android 8.0 and later
Languages	English/Simplified Chinese
Hardware for Server	Recommended CPU: E5-2640 v3@2.60 GHz 2.60 GHz 8 cores Memory: 16 GB System Disk: 1 TB, 500 G free for Mobile Center
Hardware for Client	Recommended CPU: Intel Core i5, 64 bits 4 cores processor Memory: 8 GB Graphics Card: NVIDIA® GeForce®GTX 750 Hard Drive Capacity: 200 G free for Mobile Center Control Client
Hardware for Mobile Client	iPhone: iPhone 8 and later Android: Resolution: 1280 × 720 and higher; RAM: 3 GB and larger
Browser Version	· Internet Explorer: 11 and later · Chrome: 78 and later · Firefox: 56 and later

*The record number depends on the disk capacity, the maximum record quantity is 5,000,000.