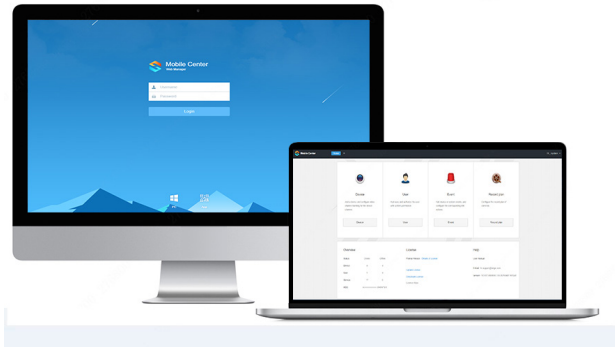


MCENTERB

Professional Mobile Platform



Overview

MobileCenter is a professional platform for mobile monitoring. 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, driver driving record, driver portrait, vehicle condition monitoring and evidence center 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 Monitoring

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

Supports real-time detection and analysis on the status of the device, user, system, disk and network. Supports viewing logs of user and system management, and business operations.

Active Security

Integrates active security devices to report alarm information such as locations, images and short videos showing on one interface. Supports graphical display of the alarm statistics.

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

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

Evidence Center

Supports downloading evidence in EXE format, including alarm details, snapshots, video clips, and alarm location data. Supports viewing the download records.

Driver Driving Record

Displays driver driving records. Supports daily/monthly statistics with visual charts for trend analysis.

Fatigue Driving Alarm

According to the driver's driving record, fatigue driving alarm is generated, including single overtime driving, single-day overtime, weekly overtime and insufficient rest alarm.

Fuel Consumption

Supports display of vehicle fuel level changes. Supports viewing vehicle fuel consumption daily/monthly statistical reports. Supports fuel theft alarm.

Temperature and Humidity

Supports viewing the change of vehicle temperature and humidity. Supports viewing the vehicle temperature and humidity report. Supports over-temperature and over-humidity alarm.

Driver Evaluation

Supports the evaluation of drivers' driving record and driving behavior. Supports custom scoring standards and assessment levels.

Driver Portrait

Supports viewing basic driver information, assessment scores and driving behavior analysis. Supports viewing the driver assessment score details and low score warning.

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.

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.

Record 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.
 Supports binding decode channel with the corresponding screen.

Map

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

Vehicle

Supports remote device upgrade: perform remote device upgrade on the web page by uploading upgrade package.
 Supports batch configuring device.
 Supports mobile information configuration.
 Supports configuring active safety rules.

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 Synchronizing time from the server and devices (when logging in).
 Supports configuring logs, alarms and GPS information.
 Supports configuring Email server.
 Supports configuring active directory.
 Supports configuring data retention time.
 Supports configuring timeout driving alarm switch and alarm parameters.

Service Management

Supports deleting the sub-server.
 Supports enabling and closing sub server.
 Supports configuring N+M management mode.

Backup and Restore

Supports automatically backup system database (daily, week, month).
 Supports configuring manually backup system database.
 Supports configuring restoring system database from server or local file.

Log

System, admin, client log.
 Supports searching and exporting log.

Statistical Maintenance

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.

Driver Scoring Criteria

Supports configuring the driver scoring standards, including verification degree, deduction value, and single deduction value.
 Supports automatic calculation based on historical data.
 Supports configuring the assessment levels, grading ranges, and grade colors.
 Supports configuring the low score early warning configuration, including the level, score range, and early warning color.

• Mobile Center Client**Language**

Simplified Chinese, English, Turkish, Italian, Portuguese, Spanish.

Live View

Displays device tree, shows or hides offline device.
 Displays the device IP address or device name on the device tree.
 Supports viewing real-time video.
 Supports common layout (1,4,9,16) and customized layout.
 Supports PTZ control.
 Supports electric focus.
 Supports manual recording (store on PC or central storage).
 Supports snapshot.
 Supports Live mode, map mode and live&map mode.
 Supports real-time alarms.
 Supports processing alarms.
 Supports sending message to devices.
 Supports audio talk.
 Supports turn on/off the audio in live view.
 Supports key monitoring.
 Displays vehicles&mpts by selecting devices of device tree.
 Supports NKB1000 to control camera on Live View.
 Supports adjusting the display mode (full screen and original).
 Supports Live video quick positioning on Map.
 Basic device setting: Camera properties, video, audio.

Download Center

Supports downloading videos from central storage or device.
 Supports avi,dav,flv,mp4,asf.
 Supports downloading records by timeline, file, or label.
 Supports multi-task download.

Playback

Supports replaying from the front-end devices or central storage.
 Video filter: Normal, motion, alarm.
 Supports sync play.

Supports reversing playback of central record.
Supports Slow and fast forward (up to 64X and 1/64X).
Supports playback frame-by-frame.
Supports lock or mark the important record for central storage.
Supports downloading the video, supports avi, dav, flv, mp4, asf.
Supports decoding the video to video wall.
Supports fisheye dewarping.
Supports adjusting the video image.
Supports Snapshot.
Supports quickly switch to live view.
Supports Adjusting the display mode (full screen and original).
Supports Common layout (1,4,6,8,9,13,16,20,25,36) and custom layout.
Supports thumbnail search.
Supports smart search.

Video Wall

Supports decoding the real-time video to wall.
Supports manually or automatically decode to wall.
Supports managing the video wall split.
Supports changing the stream type of video channel.
Supports touring 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

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

Passenger Flow Trend

Supports passenger flow statistics based on vehicles.
Supports passenger flow statistics based on lines.
Supports check site passenger flow details.
Supports check real-time number of people in the car.
Supports graphs and charts to display passenger flow statistics of single or multiple up-line and down-line.
Supports modifying 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

Supports configuring and sending electric fence to the device.

Vehicle

Supports video, map, video/map mode.
Supports receiving vehicle alarm and active safety alarm in real

time.

Supports displaying device, electronic fence, site on the map.
Supports map ranging, surface measurement, marking, reset.
Supports enabling or closing aggregation.

GPS Statistic

GPS mileage statistics
GPS abnormal statistics
GPS details statistics

Alarm Center

Event Center

Supports viewing 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.
Searchs alarm events and exports the alarm list.

Active safety alarm

Supports viewing and processing 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

Fence Alarm

Supports viewing and processing 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,Face Detection

Supports viewing and processing license plate, face detection alarm.
Supports viewing alarm pictures and videos.

BSD Alarm

Supports viewing and processing BSD alarm.
Supports viewing alarm pictures.

Fatigue Driving Alarm

Supports viewing and processing the fatigue driving alarms
According to the driver's driving record, fatigue driving alarm is generated, including single overtime driving, single-day overtime, weekly overtime and insufficient rest alarm.

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

Supports viewing 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 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

Supports viewing history face, license plate detection alarm.

Supports viewing alarm pictures and videos.

History BSD Alarm

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

Evidence Center

Support viewing evidence list and evidence download history

Support downloading evidence in the form of exe, download evidence including alarm information, capture, video, alarm location.

Driver Driving Record

Supports displaying the driver's driving record details.

Supports daily, weekly, and monthly aggregated statistics of drivers' driving hours and driving miles.

Fuel Consumption

Supports display of vehicle fuel level changes.

Supports viewing vehicle fuel consumption daily/monthly statistical reports.

Supports fuel theft alarm.

Temperature and Humidity

Supports viewing the change of vehicle temperature and humidity.

Supports viewing the vehicle temperature and humidity report.

Supports over-temperature and over-humidity alarm.

Driver Evaluation

Supports the evaluation of drivers' driving record and driving behavior.

Supports custom scoring standards and assessment levels.

Driver Portrait

Supports viewing basic driver information, assessment scores and driving behavior analysis.

Supports viewing the driver assessment score details and low score warning

• Mobile Center APP**History Record**

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

Live View

Opens 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

Replays 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

Subscribes 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

Supports viewing the 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	1,000 devices, 4,000 video channels
Recommended	2,000 devices, 8,000 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	10,000 devices, 40,000 channels

Running Environments

OS for Server	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.