

Mobile Center

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 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.

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, alarm input, thermal, emergency alarm.

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

Active security rule
Status of driver's picture sending: driver's picture progress report

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

Service Management

Delete the sub server.
Enable and disable sub servers.

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.

Other Functions

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.

System Dashboard

Overview and detail system information.
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

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.

Event Center

Real-time and history 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.

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.
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.

Tour Configuration

Manages tour tasks.

Hard Disk Hitch

Statistics of the hard disk errors.

Mobile

Quick locating on the map through real-time video

Displays the map on real-time view

Basic information management

Statistics of vehicles

Mobile alarm

Electrical fence alarm

Active security alarm

Statistics of GPS information

Restricted ANPR alarm

Restricted face alarm

Electrical fence management

Mobile Playback

Supports record playback.

Supports track playback.

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

• 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.

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.

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 capacity per storage server	200 TB
Maximum storage device number per server	5
Download task	5

Maximum Record Plan	100
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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 sub server	Up to 5
Auto-Register	5,000 devices, 10,000 channels

Cascade System

Number of cascade level	3
Number of cascade server	20
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 DSS Mobile Client	IOS: IOS 9.0 and later Android: Android 4.4 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 DSS 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: iPhone5S and later Android: Resolution: 1280 × 720 and higher; RAM: 3 GB and larger
Browser Version	· Internet Explorer: 11 and later · Chrome: 67 and later · Firefox: 56 and later
Virtual Machine	VMware ESXi 6.0(Windows Server 2012/Windows 10 (64bit))

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