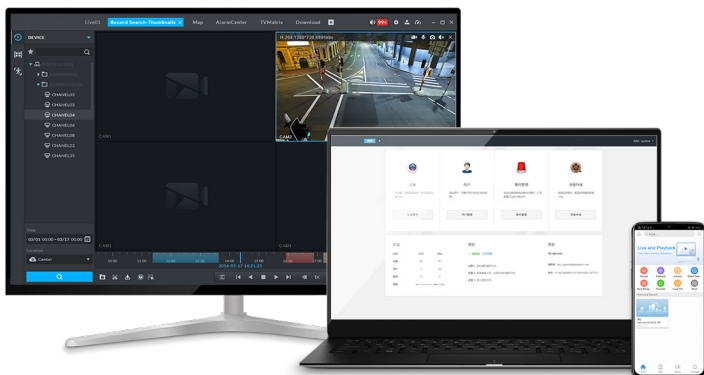


# Mobile Center

## Video Management for Mobile Applications



- Compatible with Dahua Mobile Devices: Mobile NVRs, HDCVI DVRs, and Mobile Cameras
- Connects to Third-party Devices via Standard ONVIF Protocol
- Supports LAN, WAN, Wi-Fi, 3G, and 4G Deployment
- Allows Device Initialization and Management
- Configure Role and User Management and Manage Permissions
- Live Video Playback from Edge Device
- Offers Fisheye Camera Dewarping on Live View
- Offers GPS Tracking and E-fence Feature

### System Overview

Mobile Center is a powerful, all-in-one central management software system designed specifically for mobile applications. Mobile Center provides central management control and convenient connections to Dahua devices. Mobile Center easily connects to Dahua network cameras, NVRs, HDCVI DVRs, and other devices. The software provides basic management functions including user permission management, device management, alarm management, central storage, and backups. Mobile Center displays up to 16 separate camera channels and can playback videos with full search capabilities.

### Functions

#### Compatibility

Mobile Center is compatible with all Dahua IP-enabled cameras and video recorders. The server is also compatible with the ONVIF protocol, so it can connect to ONVIF-enabled third-party devices.

#### Fisheye Camera Support

The software features full support for Dahua Fisheye cameras. The software supports options for the Fisheye camera installation and offers dewarp modes. Dewarping solves the problem of distortion in the circular panoramic view in both live or playback modes.

#### Management Operations

The software manages the devices and the user accounts for an entire organization. Operators can assign different camera ranges, active use periods, and business roles for each user. The server also supports different schemes for various events, including IVS, to record and view all event history information.

#### Access and Video Intercom Control

DMSS supports configuration and management of video intercom devices directly from the user interface. DMSS allows a user to manage users and permissions, supports two-way talk with video intercom devices.

## System Features

### Mobile Center Web Manager

#### Device Management

- Initialize Dahua devices
- Add devices via auto search, IP Address, Domain, IP Segment, and auto register (for 3G, 4G, and DHCP devices)
- Manage Dahua devices
- Add third-party devices via ONVIF Protocol
- Modify Dahua device IP Address and password

#### Role and User Management

- Manage user permissions and roles
- Assign appropriate permissions to specific users
- Restrict user access by MAC and expiration dates
- Set user PTZ permissions

#### Event Management

- Set alarm type: device, video channel, and alarm input
- Set alarm scheme: all day, weekday, weekend, or custom template
- Set alarm priority: Low, Medium, High
- Link recordings, snapshots, live video, alarm output, PTZ actions, or e-mail

#### Storage

- Supports edge storage and central storage
- Creates record plan by time template: All day template, Weekday template, Weekend template, and custom template
- Backup video from edge storage: NVR, DVR by schedule
- Backup the video from Mobile DVR by Wi-Fi
- Disk Quota: Allocate disk and cameras to different disk groups

#### Map

- Use Google online map or offline map
- Up to 8 submap levels

### System Maintenance

#### System Dashboard

- Displays overview and detailed system information
- Monitor runtime status: CPU, storage, and bandwidth
- Review service, device, user information, and device health report
- View total events and processed events
- Search and export logs

#### Logs

- View operator log and door log in control client
- Search and export logs

#### Backup and Restore

- Backup system data automatically (daily, weekly, monthly)
- Backup system data manually
- Restore system data from server or local file

#### Other Functions

- Supports HTTPS
- Calibrate device time and server time
- Set message storage time for logs, alarm information, GPS information

#### Domain

- Superior level can view live video and recorded videos of subordinate levels

### Mobile Center Control Client

#### Live View

- Displays device tree, device IP Address or device name
- Control PTZ cameras and electronic focus
- Set manual recording to PC or a central storage device
- Take snapshots
- Select from Live Mode, Map Mode, and Live&Map Mode
- Audio talk
- Set alarm window
- Set Region of Interest: divide one window into 4 or 6 parts, one shows whole image and others show details
- Save current split as a view

#### Basic Information Management

- Driver and vehicle management
- GPS upload interval time
- Upload device icon

#### Vehicle Statistics

- Mobile alarms
- E-fence alarms
- GPS statistics

#### Playback

- Playback recording from edge and central storage devices
- Apply video filters: normal, motion, alarm
- Sync play
- Reverse playback
- Playback frame-by-frame
- Supports 1/64x to 64x playback speeds
- Lock or mark important recording segments for central storage
- Video download formats support .avi, .dav, .flv, .mp4, and .asf
- Fisheye dewarping decoding
- Supports thumbnail search and smart search

#### Download Center

- Download recordings by timeline, files, or tags
- Supports multi-task download
- Supports .dav, .mp4, .flv, .asf, and .avi video formats

#### Event

- Realtime and history alarm information
- Alarm detail information: live video, record, and pictures from related camera, alarm source location on the map
- Acknowledge alarms
- Control arming for alarm source
- Forward 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

#### Map

- View live video and playback on the map
- Calculates the length or area for the GIS map
- Supports visible range and initial angle
- Icon flashes on map when alarm occurs

### Mobile Center Application

#### History Record

- Show recently viewed channels, open live video or playback via history records
- Up to 20 history records, newer record replaces the oldest operation record

#### Live View

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

#### Playback

- Replay device record and center record (Up to 8x and 1/8x)
- Calendar indicates if video is present for a specific day
- Supports snapshot and manual local record
- Supports 1x, 2x, 3x, 4x, 1/2x, 1/4x, 1/8x playback

#### Alarm Center

- Subscribe to an alarm
- Process alarms
- View alarm video and alarm picture
- Search via alarms

#### Map

- Supports Google Maps
- Display video channel on map and perform playback

#### Video

- View video of channel added to favorites
- View picture and video via local file

### Technical Specification

#### Hardware- Server

|                    |             |   |
|--------------------|-------------|---|
| Operating System   |             | Windows 7 (64-bit), Windows 10 (64-bit), Windows Server 2008 R2 Standard, Windows Server 2012 |
| CPU                | Recommended | Intel Xeon E5-2640 v3 2.60G Hz 8-Core   |
|                    | Minimum     | Intel Xeon E3-1220 v5 3.00G Hz 4-Core   |
| Memory             | Recommended | 16 GB   |
|                    | Minimum     | 8 GB  |
| System Disk        |             | 1 TB, at least 500 GB free for Mobile Center  |
| Network Connection | Recommended | Four (4) 1000 Mbps Ethernet Ports   |
|                    | Minimum     | Two (2) 1000 Mbps Ethernet Ports  |

#### Hardware- Control Client

|                    |             |                                 |
|--------------------|-------------|---------------------------------|
| Operating System   |             | Windows 7, Windows 10           |
| CPU                | Recommended | Intel® Core™ i5 64-bit 4-Core   |
|                    | Minimum     | Intel® Core™ i3 64-bit 4-Core   |
| Memory             | Recommended | 8 GB                            |
|                    | Minimum     | 4 GB                            |
| Graphics Card      | Recommended | NVIDIA® GeForce® GT 730         |
|                    | Minimum     | Intel® HD Graphics 4400         |
| Storage            | Recommended | 200 GB free space               |
|                    | Minimum     | 100 GB free space               |
| Network Connection |             | One (1) 1000 Mbps Ethernet Port |

#### Hardware- Mobile Center App

|                  |         |  |
|------------------|---------|--|
| Operating System |         | IOS 8.0 and later, Android 4.4 and later               |
| Hardware         | iPhone  | iPhone 5S and later                                    |
|                  | Android | Resolution: 1280 x 720 or higher<br>RAM: at least 3 GB |

#### Software

|                 |   |
|-----------------|---|
| Web Browser     | IE 9 or later, Chrome version 52 or later, Firefox version 51 and later |
| Virtual Machine | VMware ESXi 6.0   |

### Video Management

|   |  |  |
|---|--|--|
| Organization and User                                   | Organization                                     | 10 Hierarchies, 999 organizations per hierarchy        |
|   | Roles  | 100  |
|   | Users  | 100 Online Users, Unlimited Users                      |
| Devices and Channels                                    | Users for VDP Mobile APP                         | 500 Online Users, Unlimited Users                      |
|   | IP Addresses                                     | Intel Xeon E3-1220:<br>600 Devices, 1200 Channels      |
|   |  | Intel Xeon E5-2640:<br>1000 Devices, 2000 Channels     |
|   | Auto Register                                    | Intel Xeon E3-1220:<br>200 Devices, 800 Video Channels |
| Intel Xeon E5-2640:<br>400 Devices, 1600 Video Channels |  |  |
| ONVIF Devices   | Intel Xeon E3-1220:<br>120 Devices, 480 Channels |  |
|   | Intel Xeon E5-2640:<br>200 Devices, 800 Channels |  |
| Media Transmission Server                               | Video Input, per server                          | 600 Mbps   |
|   | Video Output, per sever                          | 600 Mbps   |

### Playback, Storage, Download

|                                     |          |
|-------------------------------------|----------|
| Playback bandwidth, per server      | 100 Mbps |
| Video storage bandwidth, per server | 600 Mbps |
| Maximum capacity, per server        | 200 TB   |
| Maximum storage devices, per server | 5        |
| Download Tasks                      | 5        |
| Maximum Record Plan                 | 100      |

### Events

|                                   |                        |
|-----------------------------------|------------------------|
| Event Rules                       | 200                    |
| Number of events without pictures | 150                    |
| Number of events with pictures    | 50                     |
| Alarm Records                     | 5,000,000 <sup>1</sup> |

### Map

|                      |   |
|----------------------|---|
| Hierarchy            | 8   |
| Submap               | 32 per hierarchy  |
| Spots per Map        | Up to 200 (cameras, alarm inputs, etc.)   |
| Average Speed Record | 5,000,000<br>(Actual record number depends on disk capacity. 5,000,000 records is the maximum.) |