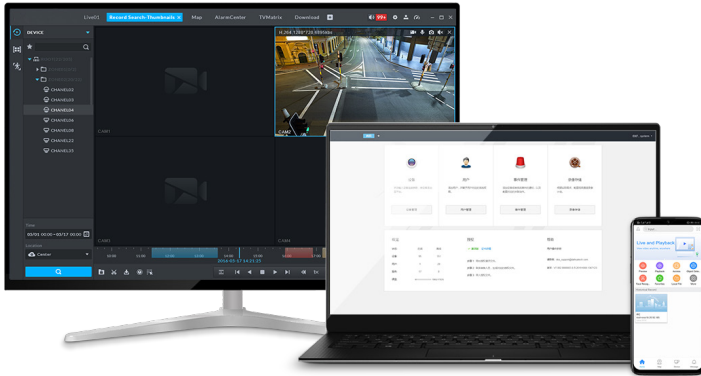# Mobile Center

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 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.

System Overview

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.

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.

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
- 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
- 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 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
	Users for VDP Mobile APP	500 Online Users, Unlimited Users
Devices and Channels	IP Addresses	Intel Xeon E3-1220: 600 Devices, 1200 Channels
		Intel Xeon E5-2640: 1000 Devices, 2000 Channels
	Auto Register	Intel Xeon E3-1220: 200 Devices, 800 Video Channels
		Intel Xeon E5-2640: 400 Devices, 1600 Video Channels
	ONVIF Devices	Intel Xeon E3-1220: 120 Devices, 480 Channels
		Intel Xeon E5-2640: 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[1]

Map

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

Ordering Information

Type	Part Number	Description
Mobile Center Licenses	DHI-MobileCenter-Base-License	Base package license with 16 auto-register video channels
	DHI-MobileCenter-Video-Channel	Auto-register video channel license (one license per channel)
	CUS-DAE-SOFTPLATFORM-OVERSEA	Custom Development Service