



**DIGIEVER**

Empower Your Vision



# DIGIEVER CMS Server

Professional Large-scale Surveillance Solution  
**Centralized Management. Distributed Architecture.**

## CMS-Server

- Central management software
- Trouble-free installation
- Centralize multiple devices: NVRs, Failover Server, Streaming Server, ONVIF Cameras and Access Control
- Easy channel expansion via license key
- Manage up to 3000 channels via multiple NVRs
- Auto search NVR mechanism
- Graphical dashboard (multiple devices analysis with instant alert)

- Create up to 500 user accounts
- Trouble-free installation
- AD accounts access management
- Access Control device integration
- Smart privilege management
- Design layout for user group
- Easy channel expansion via license key
- Comprehensive log system
- A total package with CMS-Client (Liveview, E-Map, Playback)

## CMS-Client

- Smart installation mechanism
- All-in-one Access Control Solution
- Powerful Video Wall Application
- Monitor up to 144 channels per page
- Two layout types:  
Server layout & Client layout
- User-defined display mode, up to 100 layouts
- Real-time event notification

- Intuitive multi-layer dynamic E-Maps
- Group playback across multiple E-Maps
- Advanced smart tracking within E-Map
- Up to 16CH synchronous and asynchronous playback simultaneously
- Five Smart Search modes, efficiently find out crucial moments
- Instant video export while playback
- Remote playback via CMSPlayer

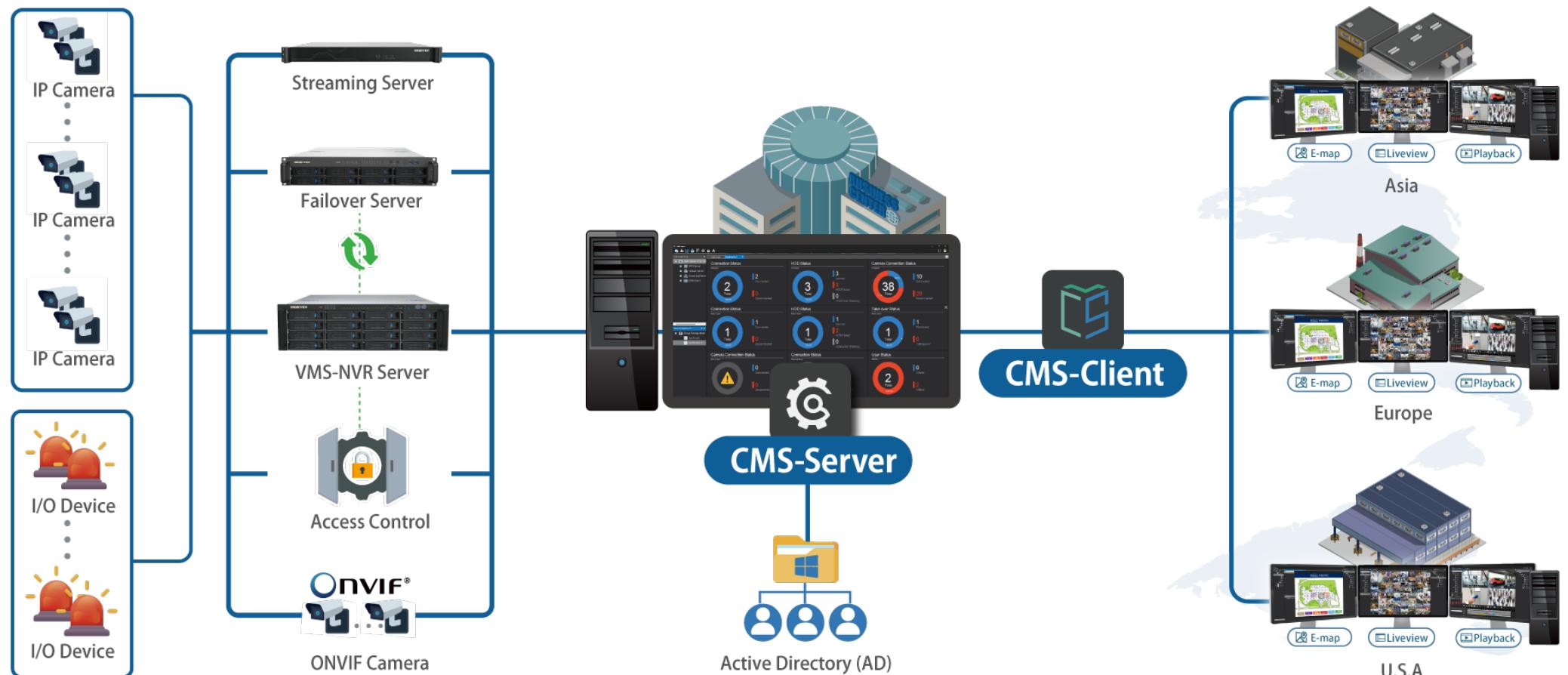




# CMS-Server

## Professional Large-scale Surveillance Solution

- Seamless Connections Without Boundaries
- Centralized Device Management





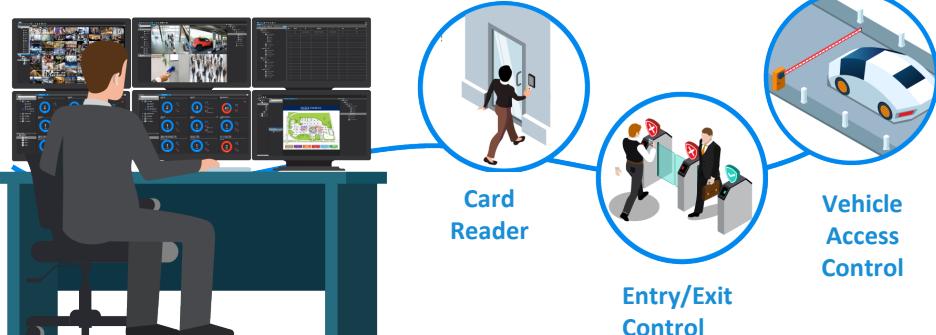
# CMS-Server

## Professional Large-scale Surveillance Solution

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### All-in-one Access Control Solution (1/3)

- Seamlessly integrates Access Control device for efficient entry and exit security.
- Simplified camera pairing from managed NVRs.
- Group-based privilege authorization
- In-depth access control activity review and event playback



\*Note: CMS supports Honeywell Pro-Watch currently and will be adding more brands and models soon.

### Rapid Deployment

Maintains the original hierarchical structure of the Access Control system, accelerating system integration



First layer: Device's Name



Second layer: Controller



Third layer: Card-Reader



Fourth layer: Paired Cameras

### Simplified Camera Pairing

Easily link camera from managed NVRs, with up to 4 cameras assignable per door or card reader.

### One-click Data Synchronization

Instantly retrieve up-to-date data, reducing maintenance efforts and time costs.

### Comprehensive Event Logs

Quickly find critical events by various search modes: smart filter, keywords, specified time range.

### Instant Event Playback

Review events with immediate playback of the last 5 minutes of recorded footage, including pre-/post-event footage (configurable)

### Detailed Log Export

Event Log Export at any time for further analysis and audit purposes. File format: csv



## CMS-Server

# Professional Large-scale Surveillance Solution

- Seamless Connections Without Boundaries
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### All-in-one Access Control Solution (2/3)

- Dedicated Access Control device panel on Liveview, dynamic E-Map & Playback
  - Real-time monitoring
  - Real-time event alarms via dynamic E-Map
  - Purple timeline highlighting event recording period in playback

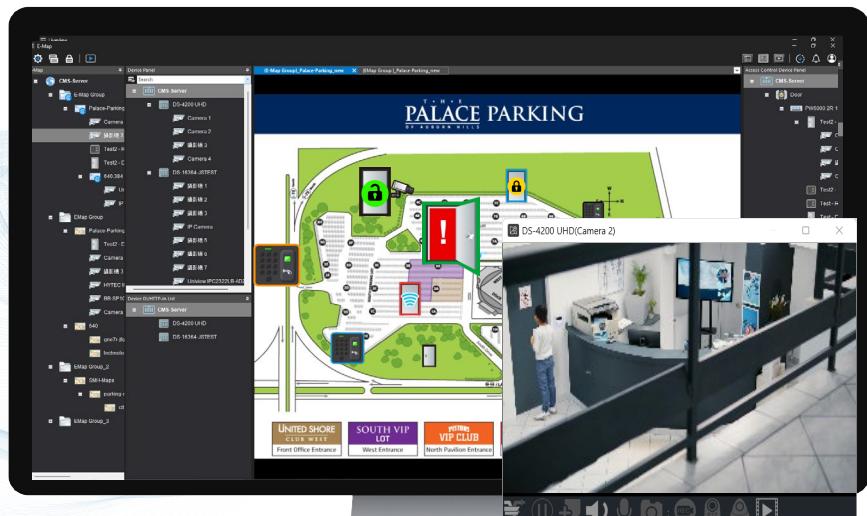


Liveview



Access Control

Playback



E-Map



# CMS-Server

## Professional Large-scale Surveillance Solution

- Seamless Connections Without Boundaries
- Centralized Device Management

### All-in-one Access Control Solution (3/3)

- Allocate On-map Access Control Device with 5 colors, 3 sizes
- Instant liveview via double-clicking the device icon on map
- Real-time event alarms via dynamic E-Map
- Simultaneously playback recordings from the paired camera
- Support group playback across multiple maps (up to 16-CH)



E-Map

Device	Icon Status on Map	Device icon with colors
Door	Lock	
	Temporary Unlock	
	Event alarm	
	Unlock	
	Restore	
Card Reader	Normal	
	Offline	
	Alarm	



# CMS-Server

## Professional Large-scale Surveillance Solution

- Seamless Connections Without Boundaries
- Centralized Device Management



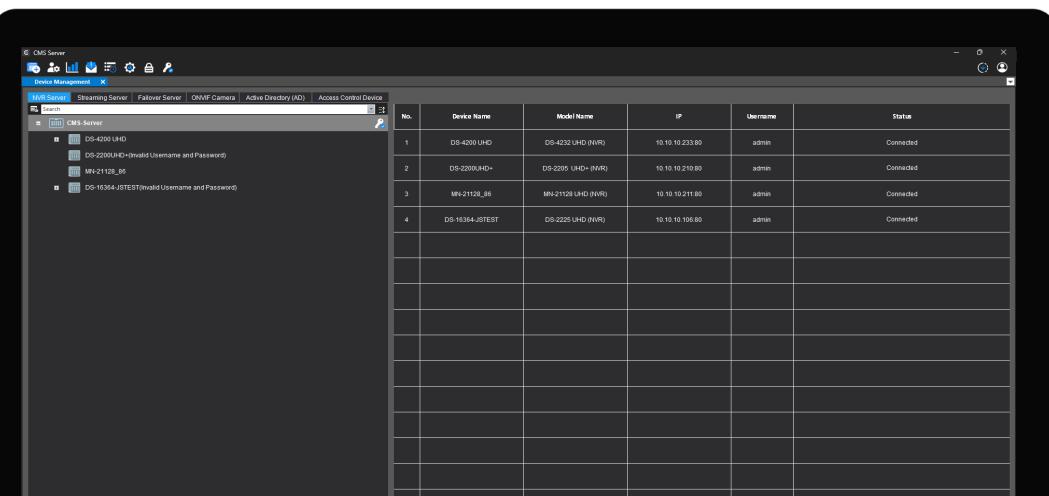
### Simplified Management (1/2)

- Trouble-free installation
- Login page for system security
- Strong password policy & instant feedback for password strength level
- Centralize devices management
- Manage up to 3000 channels via multiple NVRs

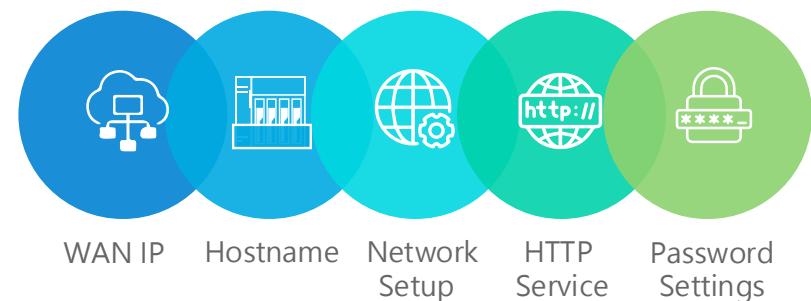
- Strong Password Policy and Instant Feedback for Password Strength Levels



### Intuitive User Interface



- Centralized to Change Device Settings



WAN IP

Hostname

Network  
Setup

HTTP  
Service

Password  
Settings



# CMS-Server

## Professional Large-scale Surveillance Solution

- Seamless Connections Without Boundaries
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### Simplified Management (2/2)

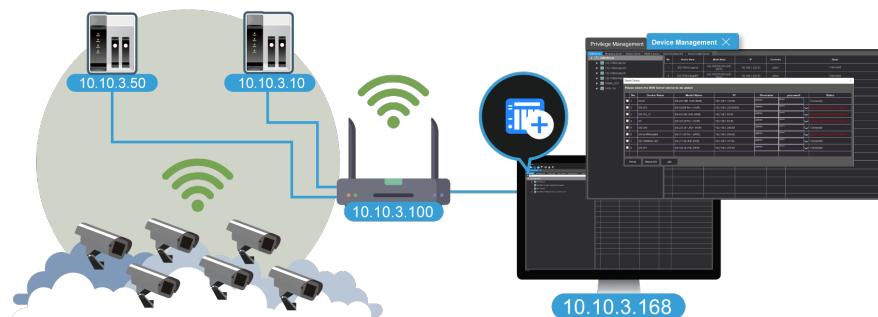
- Fast device deployment
- Easy channel expansion via license key
- One-stop channel activation maintenance



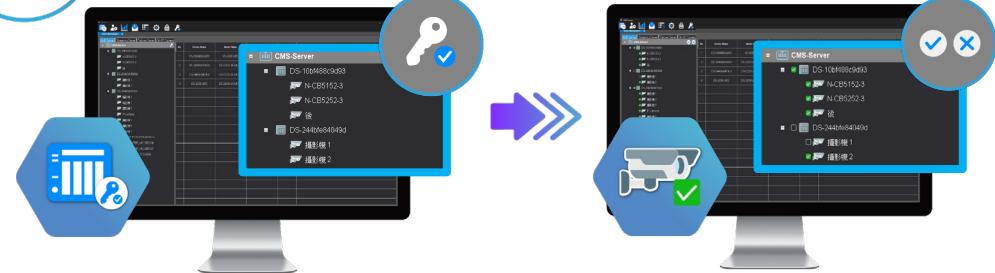
### Flexible Channel Expansion via License Key



### Auto/Manual Device Search



### One-stop channel Activation Maintenance





# CMS-Server

## Professional Large-scale Surveillance Solution

- Seamless Connections Without Boundaries
- Centralized Device Management



### Three Server Accounts

- 1. root:**  
full configuration with live stream visibility
- 2. supervisor:**  
full configuration with non-live stream visibility
- 3. designer:**  
layout planner, responsible for live view and E-Map layout



**1** Root

- ✓ System Configuration
- ✓ Viewing Streams
- ✓ Design Layout
- ✓ Change Password



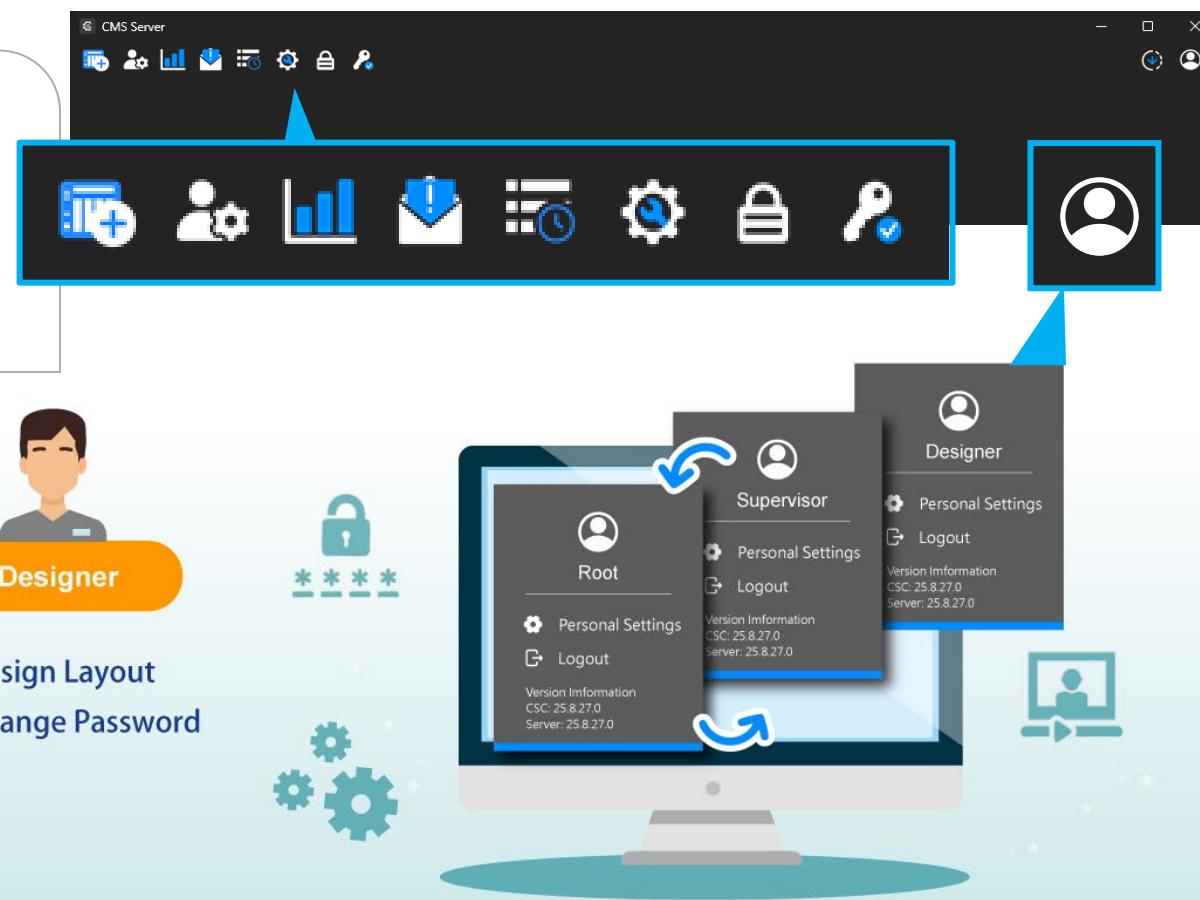
**2** Supervisor

- ✓ System Configuration
- ✓ Design Layout
- ✓ Change Password



**3** Designer

- ✓ Design Layout
- ✓ Change Password





# CMS-Server

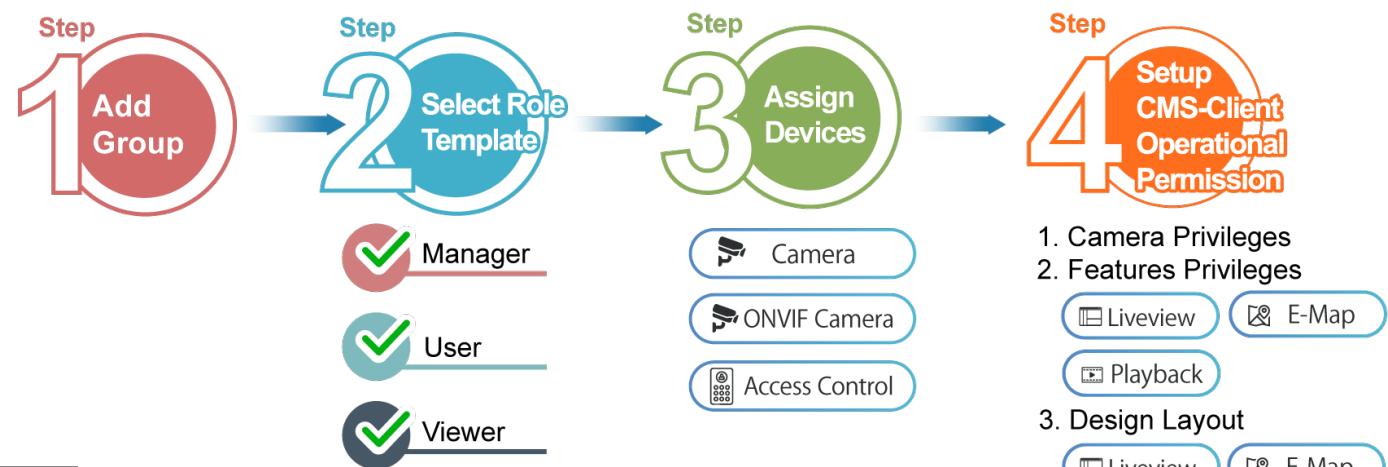
# Professional Large-scale Surveillance Solution

- Seamless Connections Without Boundaries
- Centralized Device Management



## Flexible Client Privilege (1/2)

- 1. 2 Group Method:**  
Manual Add and Add AD Group
- 2. 3 role-templates:**  
Manager, User and Viewer
- 3. Assign Controllable Devices**
- 4. Define Operation Privilege**



## 3 Role-templates Overview

## Feature Privileges

Role Template		Liveview			
	Role Template	Add/ Delete/ Save/ Rename	Enable/ Edit Sequence	Change Camera Position	
Camera Privileges	Manager	●	●	●	●
Feature Privileges	User	●	●	●	●
	Viewer		●		●
E-Map					
	Role Template	Add/ Delete Group and Map	Camera	Device DI/HTTP-in	Access Control
	Manager	●	●	●	●
	User	●	●	●	●
	Viewer				
Playback					
	Role Template	Time-divided Search		Smart Search	
	Manager	●			●
	User	●			●
	Viewer				



## CMS-Server

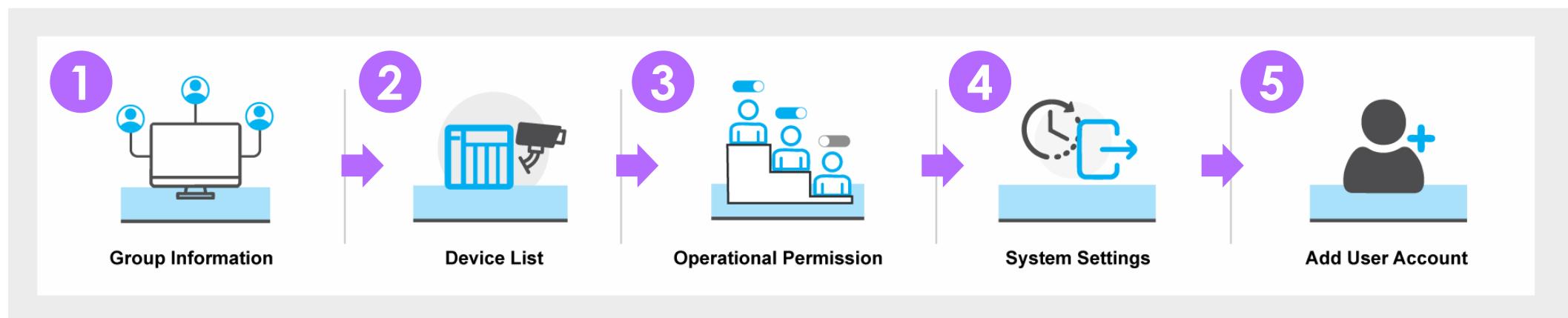
# Professional Large-scale Surveillance Solution

- Seamless Connections Without Boundaries
- Centralized Device Management



### Flexible Client Privilege (2/2)

5. CMS-Client auto logout time
6. Up to 100 User Groups with 500 user accounts



Set group name, description and select role template.

Assign devices (NVRs, cameras) to the group.

Define detailed camera operation rights, design layout (optional) for the group.

Configure CMS-Client auto logout time.

Add user account for CMS-Client



## CMS-Server

# Professional Large-scale Surveillance Solution

- Seamless Connections Without Boundaries
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## Port Forwarding Setting to Connect the World





# CMS-Server

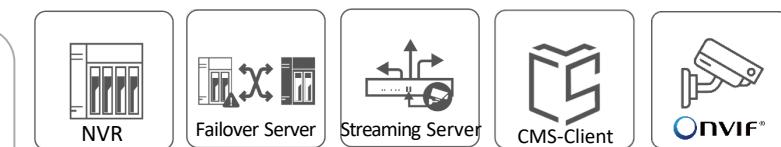
## Professional Large-scale Surveillance Solution

- Seamless Connections Without Boundaries
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### Graphical Dashboard (1/3)

- Five Key device status:  
NVR, Failover Server, Streaming Server, CMS Client and ONVIF Camera



**5 Categories**

- NVR Server
- Failover Server
- Streaming Server
- CMS-Client
- ONVIF Camera

**Favorite Groups**

Dashboard Panel: CMS-Server (192.168.1.100)

Failover Server

**Connection Status**  
Failover Server: 0 Connected, 0 Disconnected

**HDD Status**  
Failover Server: 0 Normal, 0 HDD Failed, 0 HDD Error Warning

**Take-over Status**  
Failover Server: 0 Monitoring, 0 Taking over

**Camera Connection Status**  
Failover Server: 0 Connected, 0 Disconnected

Click for  
further details

### ● Detailed Usage Insights

**Connection Status**

**HDD Status**

**Take-over Status**

**Camera Connection Status**

**User Status**



Smart display mode  
(auto-fitted matrix)

Pop-up window  
via double-click

Adjustable window size



# CMS-Server

## Professional Large-scale Surveillance Solution

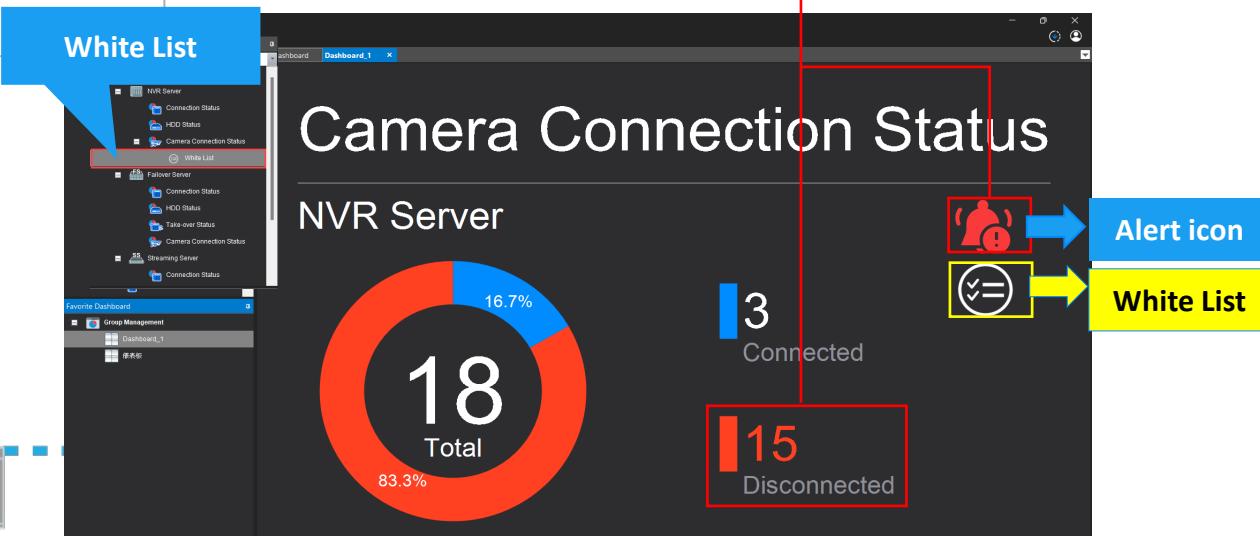
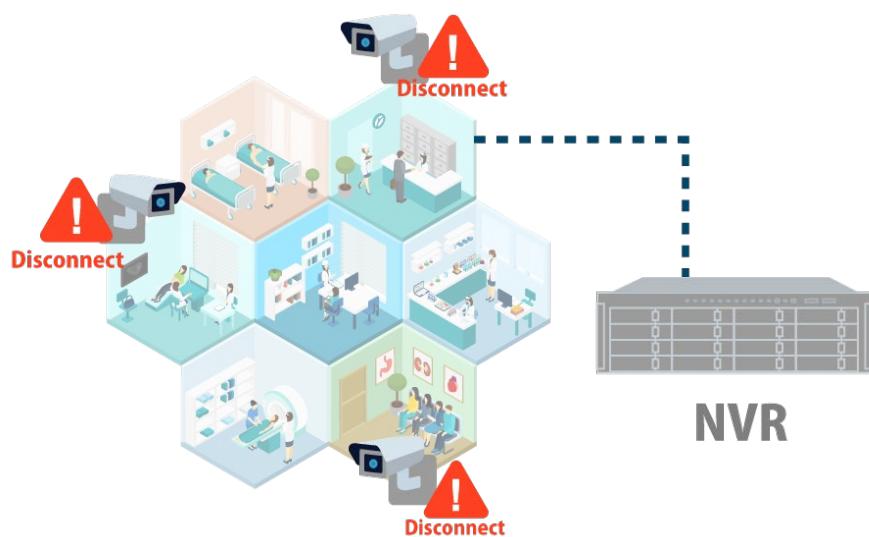
- Seamless Connections Without Boundaries
- Centralized Device Management



### Graphical Dashboard (2/3)

#### ● Real-time Alert Management

1. Real-time alert
2. Custom alert sound
3. White List setting to stop sound



**Note:** The alert sound will only activate when the specific dashboard group with an abnormal status is open.

**Note:** Closing the affected dashboard group will silence the alarm.



# CMS-Server

## Professional Large-scale Surveillance Solution

- Seamless Connections Without Boundaries
- Centralized Device Management



### Graphical Dashboard (3/3)

#### ● Real-time Alert Management

##### 4. Quick alert list

The screenshot shows the CMS-Server graphical dashboard with the following interface elements:

- Dashboard Panel:** A sidebar on the left with a search bar and a list of connected devices: CMS-Server (192.168.99.90:5566), NVR Server, Failover Server, Streaming Server, CMS-Client, and ONVIF Camera. A green circle labeled **1** is on the CMS-Server entry. A yellow box highlights the NVR Server entry, and a red circle labeled **2** is on the "White List" button.
- Dashboard 1:** A main panel with three circular status indicators:
  - HDD Status:** NVR Server. Total 1, Normal 1, HDD Failed 0, HDD Error Warning 0.
  - Connection Status:** NVR Server. Total 1, Connected 1, Disconnected 0.
  - Camera Connection Status:** NVR Server. Total 18, Connected 15, Disconnected 3.A red box labeled **3** is on the "Disconnected" count for cameras.

Panel	Status Items	Real-time Status
NVR Server	Connection Status	Connected/Disconnected
	HDD Status	Normal/HDD Failed/HDD Error Warning
	Camera Connection Status	Connected/Disconnected
Failover Server	Connection Status	Connected/Disconnected
	HDD Status	Normal/HDD Failed/HDD Error Warning
	Take-over Status	Monitoring/Taking over
	Camera Connection Status	Connected/Disconnected
Streaming Server	Connection Status	Connected/Disconnected
	Camera Connection Status	Connected/Disconnected
CMS-Client	User Status	Online/Offline
ONVIF Camera	Camera Connection Status	Connected/Disconnected



# CMS-Server

## Professional Large-scale Surveillance Solution

- Seamless Connections Without Boundaries
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### User-defined Reporting Notification

- **Multiple SMTP servers' configuration:**

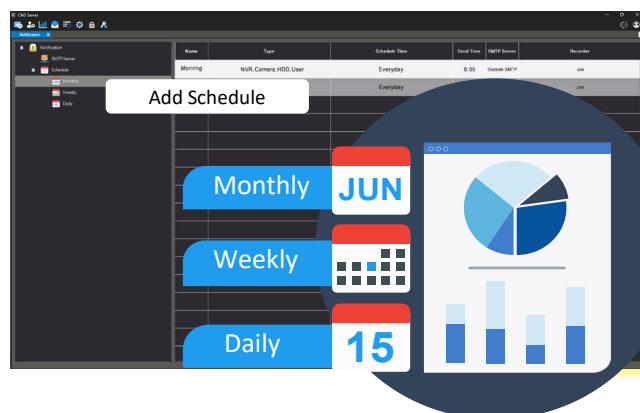
up to 10 servers to ensure reliable email delivery across different regions.

- **Customizable reporting schedule:**

flexible options of monthly, weekly, and daily.

- **User-defined report type:**

Up to 11 options



### 11 Report Types

- Connection Status / NVR Server
- Camera Connection Status / NVR Server
- Connection Status / Failover Server
- HDD Status / Failover Server
- Connection Status / Streaming Server
- Camera Connection Status / ONVIF Camera
- User Status / CMS-Client
- HDD Status / NVR Server
- Camera Connection Status / Failover Server
- Camera Connection Status / Streaming Ser...



# CMS-Server

## Professional Large-scale Surveillance Solution

- Seamless Connections Without Boundaries
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### Powerful Log System (1/2)

#### ● Comprehensive Log Coverage:

1. **System Log** : Operation Log, Event Log, History of User Log
2. **Device Log** : Event Log, History of User Log and Device Log (Hardware Log, System Log and File Access Log)
3. **Access Control Device**: Access Control Event Log.





# CMS-Server

## Professional Large-scale Surveillance Solution

- Seamless Connections Without Boundaries
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### Powerful Log System (2/2)

- Smart Filter Design
- Keyword Search
- One-click Export
- Instant Sync Logs
- Instant Event Playback

Level	<input checked="" type="checkbox"/> Information
	<input checked="" type="checkbox"/> Notice
	<input checked="" type="checkbox"/> Alert
	<input checked="" type="checkbox"/> Warning
	<input checked="" type="checkbox"/> Error
Date & Time	<input checked="" type="checkbox"/> Start Time 2024/12/24 23:59:59
	<input checked="" type="checkbox"/> End Time 2024/12/30 23:59:59
Keyword	<input checked="" type="checkbox"/> disconnect

Smart Filter Design

Log Categories

Operation Log Search

Filter Status: Result numbers/Selected criteria

Level	Date & Time	IP Address	Device Name	Card Number	Description	Playback
Warning	2025-03-11 09:40(+08:00)	192.168.5.241.8734	Test1 - Reader	478492677	Unknown Card	
Warning	2025-03-11 10:58:07(+08:00)	192.168.5.241.8734	Test1 - Reader	1631341285	Expired Card Attempt	
Warning	2025-03-11 10:49:15(+08:00)	192.168.5.241.8734	Test1 - Reader	478492677	Unknown Card	
Warning	2025-03-11 02:02:09(+08:00)	192.168.5.241.8734	PW6000 2R 1		Panel Offline - RTN	
Warning	2025-03-11 02:00:29(+08:00)	192.168.5.241.8734	PW6000 2R 1		Panel Offline	
Warning	2025-03-10 19:01:18(+08:00)	192.168.5.241.8734	Test1 - Reader	478492677	Unknown Card	
Warning	2025-03-05 17:05:35(+08:00)	192.168.5.241.8734	PW6000 2R 1		Panel Offline - RTN	
Warning	2025-02-27 17:44:08(+08:00)	192.168.5.241.8734	PW6000 2R 1		Panel Offline	
Warning	2025-02-27 17:29:28(+08:00)	192.168.5.241.8734	Test1 - Reader		Reader in card only mode	
Warning	2025-02-27 17:28:20(+08:00)	192.168.5.241.8734	Test1 - Door Position		Input point held past shunt time	
Warning	2025-02-27 17:28:20(+08:00)	192.168.5.241.8734	Test1 - Door Position		Input point held past shunt time	
Warning	2025-02-27 15:31:31(+08:00)	192.168.5.241.8734	Test1 - Reader	1815490965	Opened UnlockedDoor	
Warning	2025-02-27 15:12:19(+08:00)	192.168.5.241.8734	Test1 - Reader	1815490965	Opened UnlockedDoor	
Warning	2025-02-27 15:02:49(+08:00)	192.168.5.241.8734	Test1 - Reader	1815490965	Opened UnlockedDoor	
Warning	2025-02-27 14:58:44(+08:00)	192.168.5.241.8734	Test1 - Reader	1815490965	Opened UnlockedDoor	
Warning	2025-02-27 14:58:35(+08:00)	192.168.5.241.8734	Test1 - Reader	1815490965	Opened UnlockedDoor	
Warning	2025-02-27 14:43:41(+08:00)	192.168.5.241.8734	Test1 - Reader	1815490965	Opened UnlockedDoor	
Warning	2025-02-27 14:41:05(+08:00)	192.168.5.241.8734	Test1 - Reader	1815490965	Opened UnlockedDoor	
		32.168.5.241.8734	Test1 - Reader	409896533	Opened UnlockedDoor	

Page: 1 / 66 < > Page: 1 / 66 < >

Current page/Total page

Previous page

Next page

Central Management System 16



# CMS-Client

## Comprehensive Surveillance Software

### Liveview, E-Map, Playback

- Installation Wizard
- Multilingual User Interface
- Access Control Integration

#### Liveview

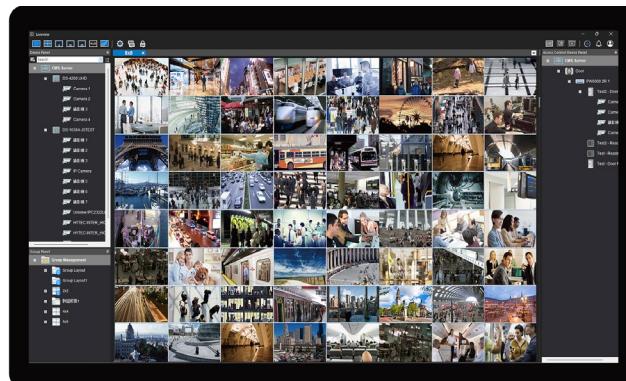
- Monitor up to 144 channels per page
- Support up to 16 channels ONVIF camera
- Personalized monitoring layouts, sequential displays, and favorite lists
- Manual recording, snapshot, instant playback and export footage, dewarping functions
- Real-time event notifications (visual & audio)
- Smart dual-stream switch

#### E-Map

- Intuitive management of multi-layer dynamic E-Map
- Distinct camera icon configuration
- Advanced smart tracking
- Group playback across multiple E-Maps
- Instant event notification (visual & audio)
- Advanced setting for event notification
- Thumbnail navigation

#### Playback

- Up to 16-ch playback simultaneously in Synchronous & asynchronous modes
- Time-divided search for efficient retrieval
- Five smart search modes
- Self-defined bookmark & bookmark search
- Built-in CMSPlayer for powerful remote playback





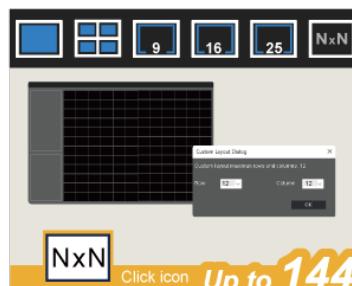
## CMS-Client

Liveview

# 360-Degree Monitoring for Environmental Safety

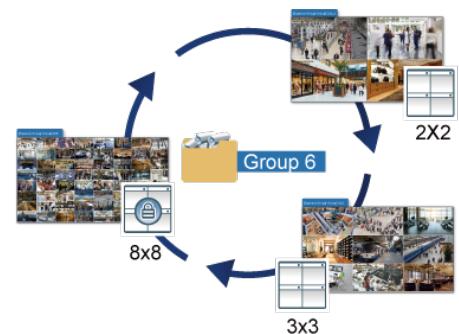
✓ User-friendly UI

✓ Easy operation



### Diverse Display Modes:

- 1/4/9/16/25 division options
- Self-defined division (NxN)



### Sequential Display:

- Group-based sequence
- Flexible time interval for each group



### Multi-layer Group Management:

- Up to 100 groups, 5 layers per group creation
- Up to 100 layouts



### Display/Hide Panel:

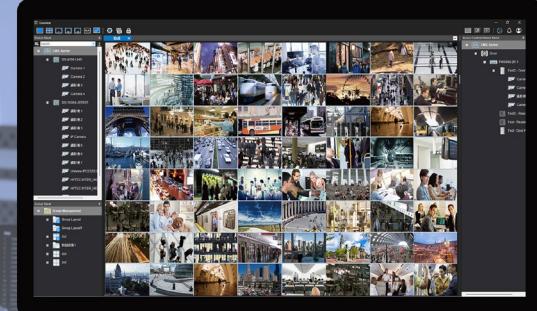
- Device, event, group, access control device panels
- Freely panel size adjustment



# CMS-Client

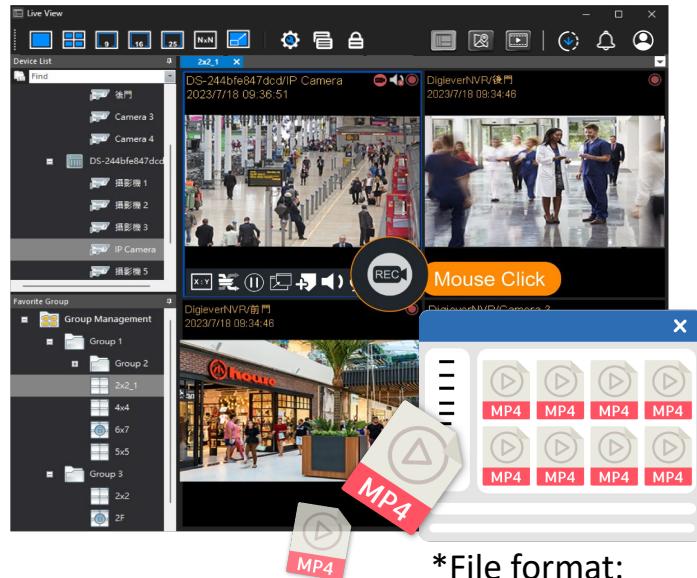
Liveview

## 360-Degree Monitoring for Environmental Safety



### REC Manual Recording

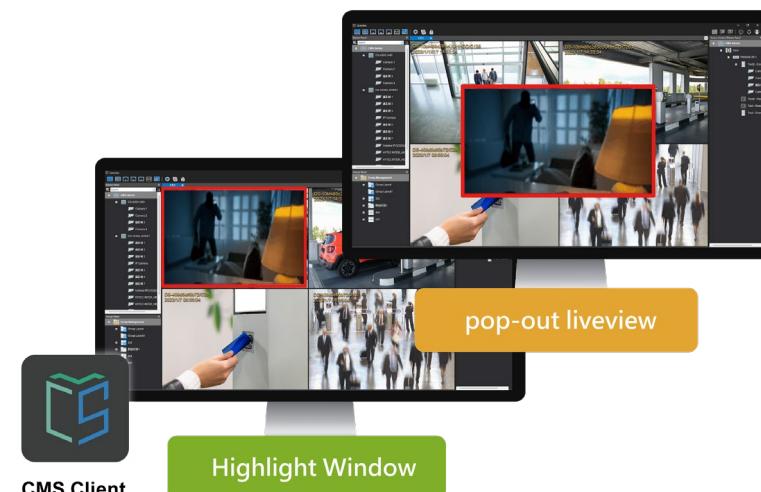
- Capture suspicious images during monitoring for subsequent verification and documentation.
- Instant playback/export crucial images



\*File format:  
MP4

### ! Instant Event Notification

- Alert center with visual & audio alerts
- Highlighted new event on event panel
- Two methods of notifications:
  - Highlight window
  - Pop-up liveview window



Highlight Window

### More...

- Snapshot
- Self-defined Bookmark
- Instant Export
- PTZ Control
- Download Center

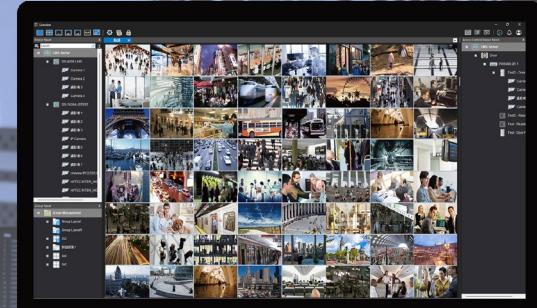


## CMS-Client

Liveview

E-Map

# 360-Degree Monitoring for Environmental Safety



## Powerful Video Wall Application

- Allocate Liveview & E-Map across extended monitors.
- Auto-restore Layouts after system restart
- Ideal for modern control rooms with continuous large-scale surveillance needs



## Powerful Event & Action Support

- Centralized events notification from multiple NVRs across different sites

Up to 17 types of NVR events

### Camera Events



### System Events



### External Events

Up to 10 types of CMS actions

### Notice on Live View



### Notice on E-Map





## CMS-Client

Liveview

E-Map

# 360-Degree Monitoring for Environmental Safety



## Flexible Layout Design Management

- Two Types of Layouts
  1. Pre-configured Server Layout
  2. Personalized Client Layout
- Operational Functions
  1. Liveview: Group Layout
  2. E-Map: Map Layout



Liveview/E-Map  
Design Layout



Server Layout



## CMS-Client



## Multi-layer Dynamic E-Map



### E-Map Management

- Group based structure
- Intuitive hierarchical E-Map organization



### On-map Camera Deployment

- 5 colors to group cameras
- 6 icons to differentiate camera's style
- 3 sizes to fit different screen resolution
- Change color, size, style, position anytime via right-click menu



5 colors & 6 styles



4K



FHD/HD



WXGA



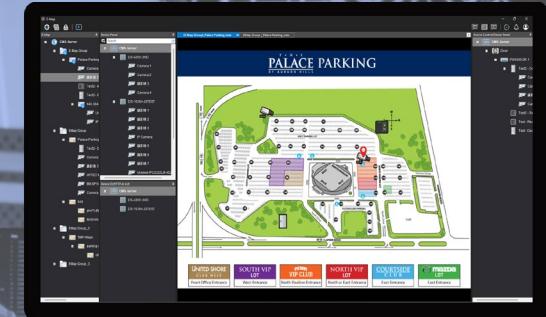
3 Resolution



## CMS-Client

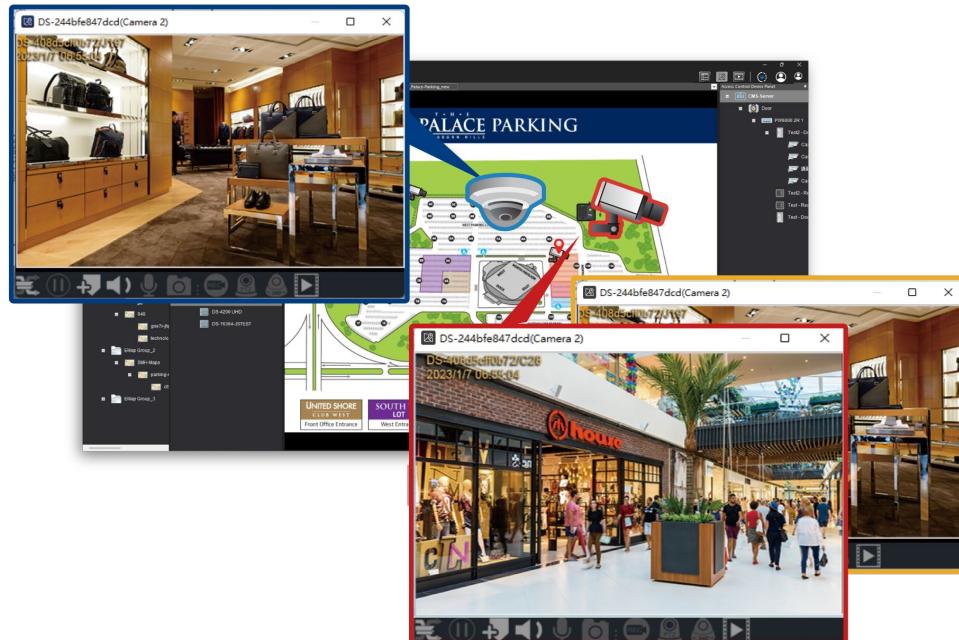


## Multi-layer Dynamic E-Map



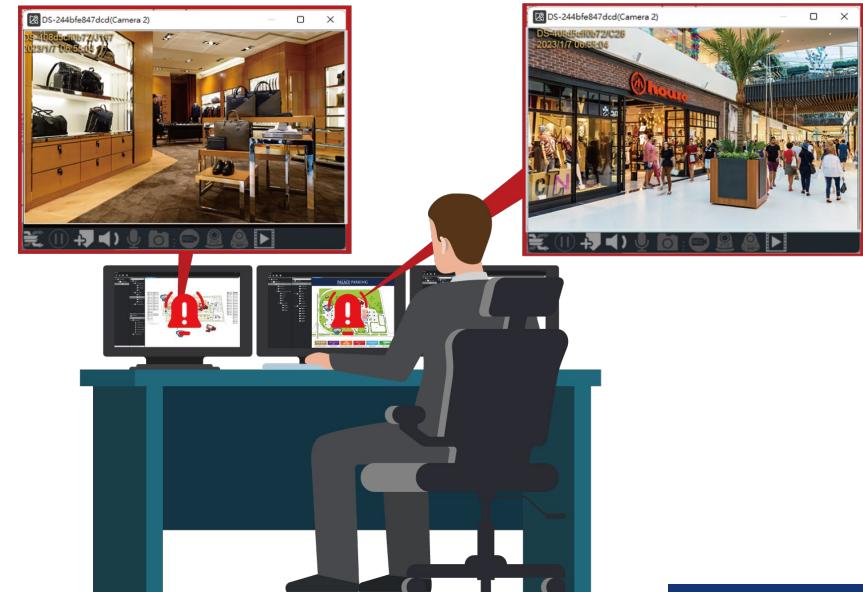
### Instant Liveview

- Up to 10 windows
- Pop out liveview window by double-clicking camera's icons on map
- Save operation time through operation toolbar on liveview window



### Real-time Event Notification

- Blinking visual alert icon on the focused area
- Highlighted window pop out directly on the screen (Max. 10)
- Auto-closed pop out window in 10 seconds





## CMS-Client



## Multi-layer Dynamic E-Map



### Advanced Option of Event Notification

- Effectively respond to critical events.
- Enhanced Map Highlighting on the top layer to indicate the occurrence of events.
- Multiple Notification Options: including Cam Event Popup, Cam DI Popup, NVR DI/HTTP-in Popup, Cam Event Switch, Cam DI Switch, NVR DI/HTTP-in Switch.



### Advanced Group Playback

- Efficient group playback across multiple E-Maps
- Open multiple playback user-interface at the same time
- Support up to 16-CH





# CMS-Client



## Multi-layer Dynamic E-Map

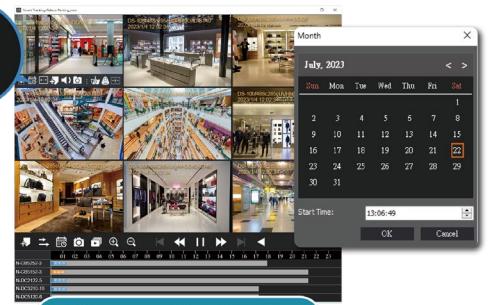


### Powerful Smart Tracking

- Efficiently track suspicious movement from 9 cameras at different sites in one window
- Simultaneously playback selected camera and other 8 cameras nearby at a time
- Advanced playback options for further actions on each channel
- Easily trace the suspicious movement via one-click on another desired camera to view new 9 cameras
- Change date and time to playback recorded video for 9 cameras simultaneously
- Export video with combine videos & add watermark features for all channel & Instant export for a selected channel



Switch focus camera



Change Play Time



# CMS-Client

Playback

## Powerful Multi-channel Playback



### Intuitive Operation

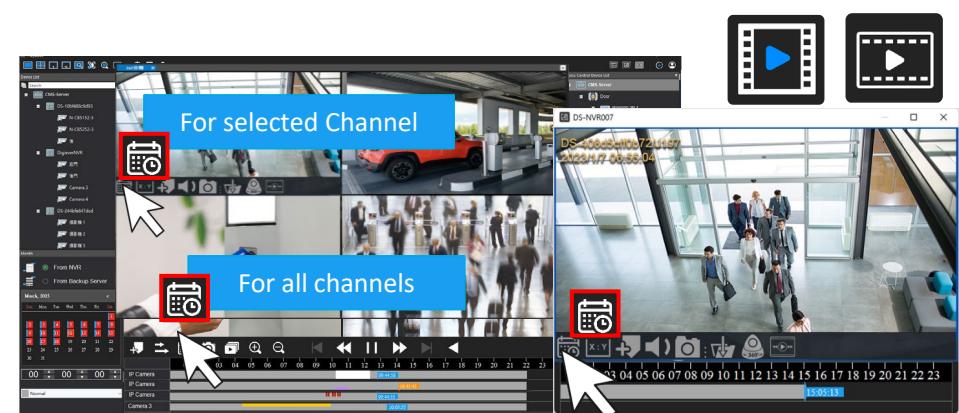
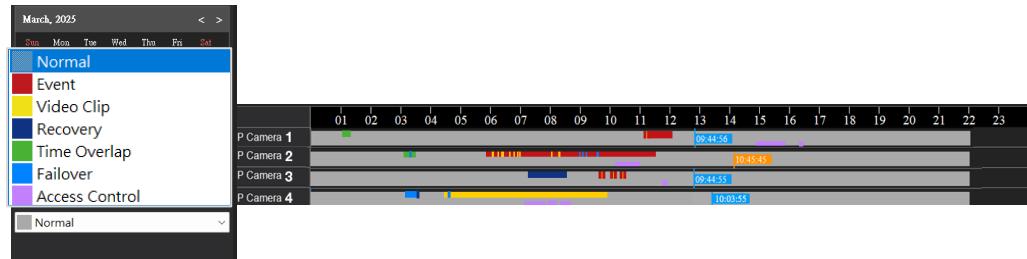
- Simple playback in 5 steps
- 7 video types: distinguish colors displays in timeline for easy recognition



### Change Play Time Button

- Effortless time adjustment via for all channel or selected channel during playback

### Select





# CMS-Client

Playback

## Powerful Multi-channel Playback



### → Synchronous Multi-channel Playback

By clicking control button to control all channel for same action simultaneously

### → Asynchronous Multi-channel Playback

By clicking each camera's timeline to control individual playback for each camera.

### Time-divided Search

- Efficient playback to find suspicious object
- Retrieve the video of a day from selected camera and divide it into 12 divisions (snapshot) in equal time.
- Narrow down time range, each division can be re-split into another 12 divisions in equal time.





# CMS-Client

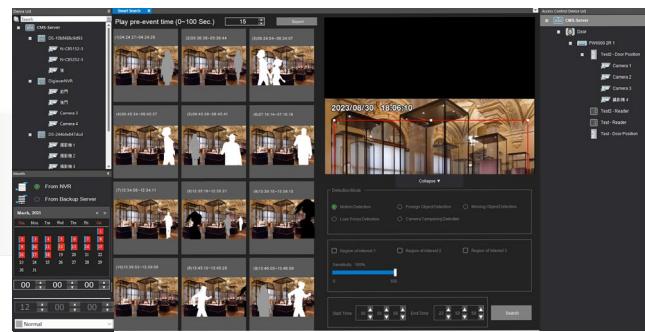
Playback

## Powerful Multi-channel Playback



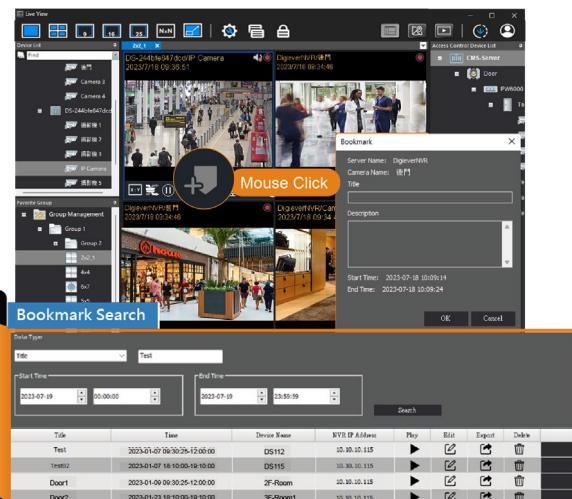
### Smart Search

- Five rapid search modes: motion detection, foreign object detection, missing object detection, camera tampering detection, and loss focus detection.
- Multiple Regions of Interest (ROI): Max. 3
- Rapid chronological search results retrieval
- Effortless event playback
- Flexible pre-event time
- One-click to export event result log



### Smart Bookmark Search

- Support key-in any character for fuzzy searching
- Easy bookmark management for advanced operation. (video clips, edit, export and delete)





# CMS-Client

Playback

## Powerful Multi-channel Playback



### Instant export

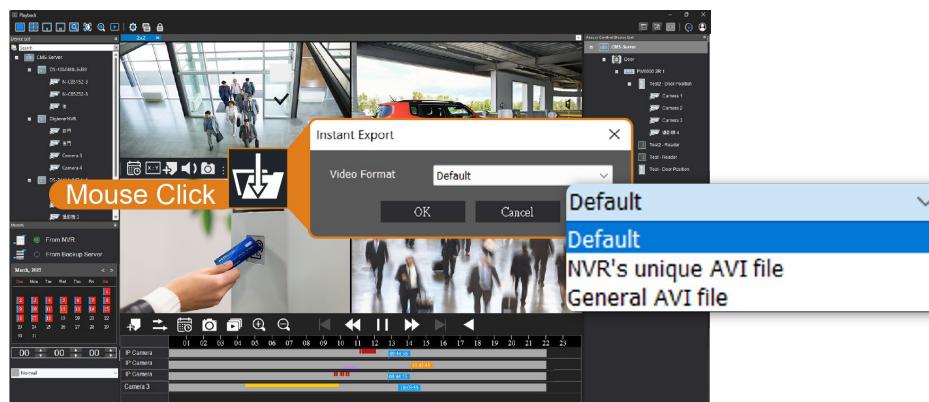
- Support on single channel
- Video length: complete 5-minute recorded file prior to the current time
- Video format option: Default, NVR's unique AVI file, General AVI file



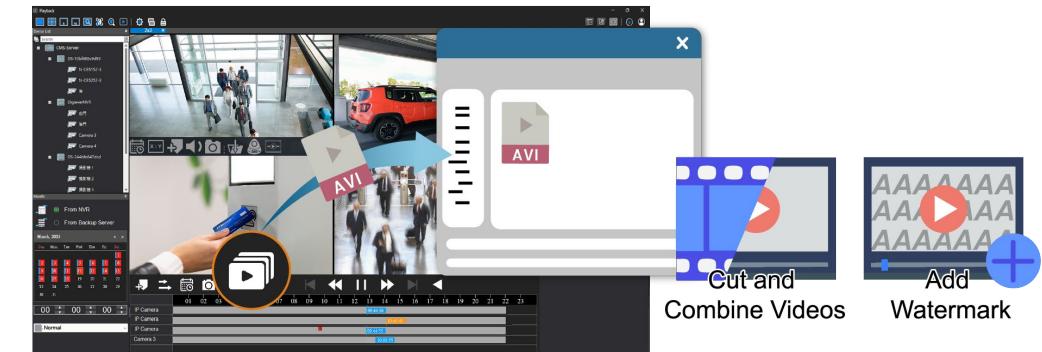
### Video Export



- Support for synchronous multi-channel playback (all channel) & asynchronous multi-channel playback (a selected channel)
- Custom time range: up to a maximum of 2 consecutive days
- Support “**Cut and combine videos**” to improve operational efficiency.
- Support “**Add watermark**” to protect content authenticity and verify file integrity.



**\*Note:** Supported codecs: H.265, H.264, MJPEG, and MxPEG.



**\*Note:** Supported codecs: H.265, H.264 and MJPEG.



# CMS-Client



## Powerful Multi-channel Playback



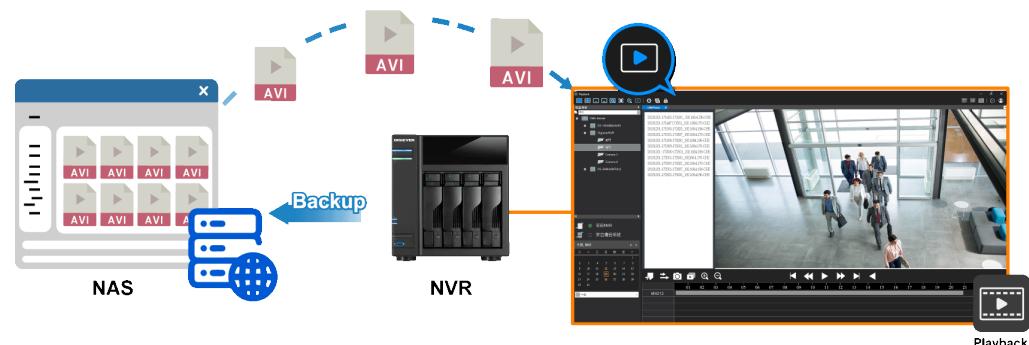
### Instant Snapshots

- Snapshot essential images during playback to CMS-Client PC
- Flexible option: single, sequential snapshot for 3, 5, 10, 15 pieces, capture image (Format : JPG)



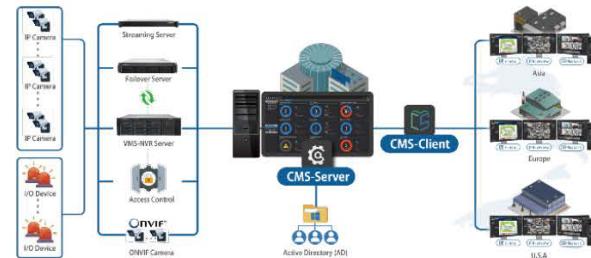
### Remote Playback

- Smartly find recorded video in backup NAS in the same LAN
- Directly play recorded videos from backup NAS via built-in CMSPlayer (File Format : Unique NVR AVI and general AVI)





## DIGIEVER CMS Server Software Specifications



Clients Connection	Support unlimited clients' connection (depends on network environment & hardware performance)
Trouble-free installation	Step-by-step installation wizard
Login Page	Options: user-interface language, save login information
Server Accounts	<ul style="list-style-type: none"> <li>root (full system control with stream visibility)</li> <li>supervisor (full system control without live stream visibility)</li> <li>designer (design layout only, without live stream visibility)</li> </ul>
Personal Settings	<ul style="list-style-type: none"> <li>Administrator's password management: Strong password policy, instant feedback for password strength level</li> <li>Version Information • Logout</li> </ul>
Device Management	<ul style="list-style-type: none"> <li>Central management for multiple NVRs, Streaming Server, Failover Server, ONVIF Camera (up to 16-channel ONVIF cameras), Access Control &amp; camera pairing from managed NVRs (up to 4 cameras per door/card reader)</li> <li>Two methods to add the device: 1. Auto search (the same network segment) 2. Manually add</li> <li>One-stop channel activation management</li> <li>Directly network setup for managed devices</li> </ul>
License Management	<ul style="list-style-type: none"> <li>Flexible channel management upgrade via license key file (4 free-channel for trial)</li> <li>Intuitively manage cameras for monitoring within authorized channel</li> </ul>
Privilege Management	<ul style="list-style-type: none"> <li>Support 100+ groups and up to 500 user accounts creation</li> <li>Offer "Administrator" default group and "admin" default user with full camera access permission.</li> <li>Active Directory (AD) account access management</li> <li>Access Control privilege management (Controller)</li> <li>Built-in 3 role-templates: Manager, User, Viewer</li> <li>Operational permission setup: camera access, feature, design layouts for user group</li> </ul>
Dashboard	<ul style="list-style-type: none"> <li>Graphical overview at a glance</li> <li>Quickly and clearly, show current resources.</li> <li>Create multiple group-base dashboard for easy monitoring</li> <li>Support multiple favorite dashboards for easy monitoring</li> <li>Smart display mode: 1/4/6/9 (auto-fitted matrix)</li> <li>Provide 11 status over 5 categories: NVR Server, Streaming Server, Failover Server, CMS-Client and ONVIF Camera</li> <li>Flexible real-time alert with sounds and icons, custom alert sound, white list alert management</li> <li>Detailed information for each usage</li> <li>Pop-up window via double-clicking on abnormal status, adjustable window size</li> </ul>
Notification	<ul style="list-style-type: none"> <li>Support up to 10 SMTP servers' connection</li> <li>Offer 3 schedule settings: monthly, weekly and daily</li> <li>Flexible 11 report types, providing detailed system and devices' analysis</li> </ul>
Log System	<ul style="list-style-type: none"> <li>Smart filter design: Log levels, specific date &amp; time range, keyword search</li> <li>One-click export: Export search results for archiving and system analysis</li> <li>Instant sync logs: Stay updated with the latest system and device changes</li> <li>Detailed action view: By clicking blue hyperlink for a quick and clear interpretation of log actions</li> <li>Adaptive display: Auto adjusts row and page displays based on screen size for an optimized viewing experience</li> <li>Access control: support instant event playback (up to 4 channels at a time)</li> </ul>
Event and Action Management	<p><b>17 event types getting from NVR:</b> Camera connection lost, camera motion detection, camera audio detection, camera digital input, camera cross line detection, camera tampering detection, intrusion detection, temperature detection, loitering detection, foreign object detection, missing object detection, call button, people counting threshold alarm, advanced motion detection, human detection, NVR digital input, External event HTTP-in</p> <p><b>10 ways event notifications:</b> Alert center, alert sound, alert icon blinking, highlight video window, video pop-out window, highlight new event notice on event panel, event instant playback, video pop-out window on E-Map, event map on top, camera alert icon status notification on panel &amp; map</p>

Customizable User Interface	<ul style="list-style-type: none"> <li>Adjustable column size to fit user's demand</li> <li>Page open in new tab for convenient switch as web browser user-experience</li> <li>Separate open page into column display mode for multi-task operation</li> </ul>
Lock UI Mode	Lock the entire UI with password for high-level protection to prevent unintentional operations
Save Login Information	One-click to save login information on login page
Setting	<ul style="list-style-type: none"> <li>Bridge port management</li> </ul>
Setting	<ul style="list-style-type: none"> <li>Multi-language Support</li> </ul>
Setting	<ul style="list-style-type: none"> <li>System Configuration File</li> </ul>
	<ul style="list-style-type: none"> <li>Export: Backup system configuration file to client-PC</li> <li>Import: Upload system configuration file to recover CMS software</li> </ul>



## CMS-Client



Initial Installation	Enter <a href="http://server_IP:port/cms.exe">http://server_IP:port/cms.exe</a> on web browser to download CMS-Client
Installation Wizard	Minimize setup effort via step-by-step wizard
Upgrade Notice	Automatically detect the latest version of CMS Server when execute CMS-Client before login
Login Option	Directly login to Liveview or Playback or E-Map on login page
Login with AD Account	Yes
Save Login Info	Yes, One-click
Multi-language Support	Bulgarian, Croatian, Czech, Dansk, Deutsch, Dutch, English, Finnish, French, Indonesian, Italian, Japanese, Korean, Hebrew, Hungarian, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, Thai, Turkish, Tradition Chinese, Simplified Chinese, Vietnamese



## Liveview

Function	Sub-Function / Description
Maximum Channels	Up to 3000 channels from multiple NVRs (up to 16-channel ONVIF cameras)
Maximum Channels per Page	Up to 144 channels
Display Mode for Liveview Monitoring	1x1, 2x2, 3x3, 4x4, 5x5, full screen, user-defined (NxN, up to 12x12), division auto-fit based on selected camera number
Method of Adding Camera for Liveview	<ul style="list-style-type: none"> <li>Double-click camera icon on device panel</li> <li>Drag camera icon from device panel to liveview window</li> <li>Add all cameras by dragging NVR servers to liveview window</li> </ul>

Function	Sub-Function / Description						
Video Compression Format	H.265/H.264/MJPEG-4/MJPEG/MxPEG (Depending on the connecting camera)						
Functions Toolbar	<ul style="list-style-type: none"> <li>Mouse over to display on each channel</li> <li>Functions include: Image ratio, stream change, pause, video pop-out window, bookmark, mute, two-way audio, snapshot, manual recording, PTZ, panorama, instant playback</li> </ul>						
Image Ratio	Options: Original/Fit/Original Scale-ratio/Fit all						
Dual Stream Support	<ul style="list-style-type: none"> <li>Support manually choose Stream 1 or Stream 2</li> <li>Auto switch stream: getting stream 1 when display above/and 12-channel per page, stream 2 when display over 12-channel per page</li> </ul>						
Stream from NVR Relay	Display stream from NVR's relay server to satisfy multiple clients simultaneous monitoring needs and to minimize the influence of camera limitation						
Self-defined Bookmark	<ul style="list-style-type: none"> <li>Bookmark current video as a specific moment for future checking.</li> <li>Auto Bookmark length: starting time: from pressing bookmark button of live video + 10 seconds</li> <li>Bookmark files will be stored on NVR database</li> </ul>						
Two-way Audio	Directly communicate with onsite people via CMS-Client PC's speaker and microphone (depending on camera's type)						
Manual Video Record	Manually record important moment by defining proper start and end time during liveview monitoring via pressing record button and save the video to CMS-Client PC / Format: MP4						
PTZ Functions	Zoom out, zoom in, optical zoom in, optical zoom out, focus near, focus far, auto focus, speed (slow, normal, fast), preset point, PTZ control						
Dewarping Functions	<ul style="list-style-type: none"> <li>Dewarping method: DIGI-Dewarp</li> <li>Camera Position: Ceiling, Ground, Wall</li> <li>Display Mode: PTZ, Quad, Panorama, Perimeter</li> </ul>						
Instant Playback	<ul style="list-style-type: none"> <li>Quickly turn to playback mode for the day of liveview</li> <li>Auto playback the last 5-minute recorded video</li> <li>Moving seeking bar of timeline for desired time period</li> <li>Quick operation options on playback screen (change play time, image ratio, snapshot, instant export, audio/mute, back to liveview, playback control)</li> <li>Instant export video format &amp; Video player: Default (based on NVR format), NVR's unique AVI file (installation-free NVR/CMS Player), general AVI (PC media player such as Windows media player, VLC)</li> </ul>						
Event Panel	<ul style="list-style-type: none"> <li>Triggered events overview (camera event, NVR event and NVR storage event)</li> <li>Highlight new event or unacknowledged event in pink background</li> <li>Click to release event notification and stop the alert sound when alert sound is enabled</li> </ul>						
Live View Settings for Event Notification	<table border="1"> <tr> <td>Highlight liveview window</td> <td>Highlight liveview window in red frame when an event is triggered</td> </tr> <tr> <td>Instant liveview pop-out window</td> <td> <ul style="list-style-type: none"> <li>A pop-out video window for instant notification</li> <li>Freely adjust the size by user's demand</li> <li>Self-defined time to close pop-out window (5~180 seconds, 5 seconds as default)</li> </ul> </td> </tr> <tr> <td>Alert sound control</td> <td> <ul style="list-style-type: none"> <li>Enable/Disable</li> <li>Custom alert sound (supported file format: *.wav, *.mp3, *.mid)</li> </ul> </td> </tr> </table>	Highlight liveview window	Highlight liveview window in red frame when an event is triggered	Instant liveview pop-out window	<ul style="list-style-type: none"> <li>A pop-out video window for instant notification</li> <li>Freely adjust the size by user's demand</li> <li>Self-defined time to close pop-out window (5~180 seconds, 5 seconds as default)</li> </ul>	Alert sound control	<ul style="list-style-type: none"> <li>Enable/Disable</li> <li>Custom alert sound (supported file format: *.wav, *.mp3, *.mid)</li> </ul>
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Alert sound control	<ul style="list-style-type: none"> <li>Enable/Disable</li> <li>Custom alert sound (supported file format: *.wav, *.mp3, *.mid)</li> </ul>						
Find Devices by Name	Find managed NVRs and cameras by entering keyword						
Digital Zoom with Mouse Scroll	Digital zoom in and zoom out from central point with mouse scrolling on selected channel 'For PTZ cameras that adopt optical zoom in/out via mouse scrolling, please use zooming with mouse scroll first and then click digital zoom in/out button for more detailed view'						
Group Layout Management	<ul style="list-style-type: none"> <li>Server layout: pre-configured layout by system administrator/designer</li> <li>Client layout: personalized layout by users <ul style="list-style-type: none"> <li>Save layout</li> <li>Freely re-order group and layout by drag-and-drop</li> <li>Create up to 100 groups and up to 5 layers of each group</li> <li>Right-click menu: enable sequential, edit sequential time interval for each layout, rename/delete group, add group</li> <li>Up to 100 layouts creation</li> <li>Right-click menu: rename, delete, playback</li> </ul> </li> </ul>						
File Path	Self-defined file path for snapshots, exported video, manual recorded video						
Liveview OSD Settings	<ul style="list-style-type: none"> <li>Display options for OSD info: Server name, camera name, time zone, time</li> <li>Self-defined font size, position and color</li> </ul>						
Show or Hide Panels	Device panel, Group panel, Event panel and Access Control Device panel						
Adjustable Panels Size	Flexibly adjust the panel to suitable size						
Lock UI Mode	Lock the entire UI with password for high-level protection to prevent unintentional operations						
Quick Link to Playback/E-Map	Directly open liveview window or E-Map window for quick operation						
Easy Liveview Manipulation Tool	<ul style="list-style-type: none"> <li>Mouse over to view NVR and camera's information</li> <li>Mouse scroll function toolbar to view hidden functions on each channel when the liveview window is in smaller size</li> <li>Open liveview in new tab for quick switch</li> <li>Double-click to open tab in new window for extended display on second monitor when dual monitors are connected.</li> </ul>						

Function	Sub-Function / Description
Download Center	<ul style="list-style-type: none"> <li>Provide an overview of downloading status for each exporting task, including finished, downloading, canceled, waiting, connection failed, access denied and file missing</li> <li>Directly open file explorer to access the file location</li> <li>One-click to clear all record</li> <li>Blinking alert icon when event is triggered</li> <li>One-click to stop all alert sound (when alert sound is enabled)</li> </ul>
Alert Center	
Personal Settings	Logout and Check for current CMS-Client version (Liveview, Playback, E-Map)
 <b>E-Map</b>	
Function	Sub-Function / Description
Multi-layer Maps	<ul style="list-style-type: none"> <li>Two types of layouts: Server layout &amp; Client layout</li> <li>Support multi-layer dynamic E-Maps to quickly locate trouble zones in a comprehensive overview</li> <li>Up to 100 E-Map layers (Client layout) creation</li> <li>Real-time liveview by clicking the on-map cameras (Up to 10 pop-out windows)</li> <li>Triggered events overview (camera event, NVR event and NVR storage event)</li> <li>Highlight new event or unacknowledged event in pink background</li> <li>Click to release event notification and stop the alert sound when alert sound is enabled</li> </ul>
Event Panel	<p>Settings:</p> <ul style="list-style-type: none"> <li>Video pop-out window: up to 10 windows at a time</li> <li>Each pop-out window auto-close after 10 seconds.</li> </ul>
Instant Event Notification	<p>Show blinking alarm icon on map, click to release the event alarm.</p> <ul style="list-style-type: none"> <li>Change camera icon with alert and red outline on E-Map panel.</li> </ul>
Camera Allocation	Easy allocate the selected camera from device list to specific location of the map via drag-and-drop
Camera Re-allocation on E-Map	<p>Right-click menu: color, size, style, remove, rotate, playback, smart tracking</p> <ul style="list-style-type: none"> <li>6 camera styles, 5 camera group colors for priority management</li> <li>3 sizes to fit different screen resolution</li> <li>8 directions for monitoring area indication</li> <li>Playback: support change play time, bookmark, mute, snapshot, instant export, panorama, back to liveview, playback control panel</li> </ul>
Access Control Device Allocation on E-Map	<p>Right-click menu: Color, Size, Remove, Playback, Action</p> <ul style="list-style-type: none"> <li>5 access control device group colors for priority management (door/card reader)</li> <li>3 sizes to fit different screen resolution</li> <li>4 actions for further operation: Unlock, Lock, Temporary Unlock and Restore</li> </ul>
Diverse Image Formats	Upload maps in BMP, GIF, JPEG and PNG formats
Drag-and-drop Design on E-Map Panel	Re-order E-Maps within same E-Map group
Intuitive E-Map Indicator	Display thumbnail at the right-bottom corner of the Map to show location when enlarge the map
Show or Hide Panels	Device panel, E-Map panel, Device DI/HTTP-in panel, Access Control Device panel and Event panel
Lock UI Mode	Lock the entire UI with password for high-level protection to prevent unintentional operations
Adjustable Panels Size	Flexibly adjust the panel to suitable size
Smart Tracking	<ul style="list-style-type: none"> <li>Efficiently track suspicious movement from 9 cameras at different sites in one window</li> <li>Simultaneously playback selected camera and other 8 cameras nearby at a time</li> <li>Easily trace the suspicious movement via one-click on desired camera to get refresh 9 cameras</li> <li>Instantly change recorded date and time for further video checking</li> <li>Support playback functions, video export with cut and combine video, add watermark features</li> </ul>
Group Playback	<ul style="list-style-type: none"> <li>Playback up to 16 cameras across multiple E-Maps at the same time</li> <li>Mark the selected camera with sequence number</li> <li>Auto-fitted display mode: 1, 4 (2x2), 6 (2x3), 9 (3x3), 16 (4x4)</li> </ul>
Easy E-Map Manipulation Tool	<ul style="list-style-type: none"> <li>Mouse over camera icon to view camera information</li> <li>Add camera/HTTP-in device/Access control device to specific location on map via drag-n-drop.</li> <li>Zoom in/out the E-Map with mouse scroll</li> <li>Double-click camera icon on map to pop out large liveview window and window size resizable.</li> <li>Support function toolbar for quick operation on pop out liveview window. Functions include stream change, pause, bookmark, two-way audio, snapshot, instant playback, manual recording to monitoring PC, digital zoom in/out, optical zoom in/out, focus near/ far/ auto, go to present point and PTZ panel</li> <li>Double-click to open tab in new window for extended display on second monitor when dual monitors are connected</li> </ul>
Quick Link to Liveview/Playback	Directly open liveview window or Playback window for quick operation
Download Center	<ul style="list-style-type: none"> <li>Provide an overview of downloading status for each exporting task, including finished, downloading, canceled, waiting, connection failed, access denied and file missing</li> <li>Directly open file explorer to access the file location</li> <li>One-click to clear all record</li> <li>Blinking alert icon when event is triggered</li> <li>One-click to stop all alert sound</li> </ul>
Alert Center	
Personal Settings	Logout and Check for current CMS-Client version (Liveview, Playback, E-Map)
 <b>Playback</b>	
Function	Sub-Function / Description
Multi-NVR Selection	Retrieve specific recorded videos from multi-NVR
Multi-channel Playback	<ul style="list-style-type: none"> <li>Up to 16-channel simultaneous playback from multiple NVRs</li> <li>Provide function toolbar on each channel for quick operation</li> </ul>

Function	Sub-Function / Description
Display Mode	1,4,9,16 channel playback simultaneously
Playback Control per Channel	Play, fast forward, slow motion, previous/next frame, rewind, frame by frame
Up to 128x Fast Forward	7 fast-forward speeds (2x, 4x, 8x, 16x, 32x, 64x, 128x) to get the key moment of video more quickly
Functions Toolbar	Bookmark, sync button, change play time, snapshot, export, zoom in, zoom out
Sync Button	<ul style="list-style-type: none"> <li>Control all channels for the same action simultaneously</li> <li>Click again to release sync mode</li> </ul>
Synchronous Multi-channel Playback	Simultaneously play up to 16-channel video for wide-range location investigation
Asynchronous Multi-channel Playback	Individually playback each camera by clicking each camera's timeline to track suspicious objects in the region
Playback Calendar & Start Time Control	Yes
Recording Type	Normal, event, video clip, recovery, time overlap, failover and access control
	Change UI language, User-defined file path for snapshots and exported video
Setting Tools	Playback OSD Setting <ul style="list-style-type: none"> <li>Display options for OSD info: Server name, camera name, time zone, time</li> <li>Self-defined font size, position and color</li> </ul>
	Access Control Settings <p>Pre/post-event playback time: available time range between 10~300 seconds (30 seconds in default)</p>
Skip Blank Video	Skip the blank recording files to save operation time
Multiple Function Menu per Channel	Change Play Time <p>Effortless time adjustment button</p>
	Image Ratio <p>4 mode options: Original/Fit/Original Scale-ratio/Fit all</p>
	Bookmark <ul style="list-style-type: none"> <li>Mark special moments for a specific camera during video playback</li> <li>Bookmark files will be stored on NVR database</li> </ul>
	Mute <p>Enable audio/mute</p>
	Snapshot <ul style="list-style-type: none"> <li>Save pictures to a user-defined path (format: JPG)</li> <li>Support instant snapshot for single image during playback</li> </ul>
	Sequential Snapshot <p>Take continuous snapshots of each second, including 3/ 5/ 10/ 15 seconds</p> <ul style="list-style-type: none"> <li>Instant export during playback video from specific channel</li> <li>Export multiple videos from all playback channels in synchronous multi-channel playback mode for a specified time range.</li> <li>Support "Cut and combine video and add watermark features</li> <li>Save exported video to user-defined path. Supported video codecs: H.265, H.264, MJPEG, and MxPEG</li> <li>Supported video codecs for adding watermark: H.265, H.264, MJPEG</li> </ul>
	Export Video <ul style="list-style-type: none"> <li>De-warping method: DIGI-Dewarp</li> <li>Camera Position: Ceiling, Ground, Wall</li> <li>Display mode: PTZ, Quad, Panorama, Perimeter</li> </ul>
	Dewarping Functions <ul style="list-style-type: none"> <li>Efficient way to find key frame by dividing the recorded video of a day into 12 divisions in equal time</li> <li>Each division displays the first frame of that period of time and user can click a channel to playback the video at one window</li> </ul>
	<p>Two ways to narrow down searching period:</p> <ol style="list-style-type: none"> <li>Double-clicking specific division</li> <li>Press "next" button</li> </ol> <p>Directly playback the same period of recorded video while checking the selected divisions</p> <p>Quick operation options on playback window (image ratio, bookmark, mute the audio, snapshot, instant export, control panel)</p> <ul style="list-style-type: none"> <li>Five search modes: motion detection, foreign object detection, missing object detection, camera tampering detection, and loss focus detection</li> <li>Up to 3 ROIs &amp; sensitivity adjustment (0~100 seconds)</li> <li>Pre-event time setup: 0~100 seconds (Default: 15 seconds)</li> <li>Export search results</li> <li>Search time setup (hh:mm:ss)</li> <li>Search bookmark videos from multiple NVRs by fuzzy matching bookmark title</li> <li>User-defined searching range (start time and end time)</li> </ul>
Time-divided Search	<p>Lock UI Mode</p> <ul style="list-style-type: none"> <li>Lock the entire UI with password for high-level protection to prevent unintentional operations</li> </ul> <p>Show or Hide Panels</p> <ul style="list-style-type: none"> <li>Access Control Device panel and Event panel</li> <li>A dedicated player to play backup video from NAS which is connected with selected NVR</li> <li>File format: Unique NVR AVI and general AVI</li> </ul> <p>Built-in CMSPlayer*</p> <ul style="list-style-type: none"> <li>The NAS must be the backup destination of the selected NVR server</li> </ul> <p>Thumbnail Preview</p> <p>Mouse over the footage to quickly display thumbnail preview</p> <p>Zoom in/out Timeline</p> <p>Mouse scroll to zoom in/out timeline scale bar</p> <p>Digital Zoom in/out</p> <p>Yes</p>

Function	Sub-Function / Description
Quick Link to Liveview/E-Map	Directly open liveview window or E-Map window for quick operation
Easy Playback Manipulation Tool	<ul style="list-style-type: none"> <li>Mouse over to view NVR and camera's information</li> <li>Open playback in new tab for quick switch</li> <li>Double-click to open tab in new window for extended display on second monitor when dual monitors are connected.</li> </ul>
Download Center	<ul style="list-style-type: none"> <li>Provide an overview of downloading status for each exporting task, including finished, downloading, canceled, waiting, connection failed, access denied and file missing</li> <li>Directly open file manager to check the file location</li> <li>One-click to clear all record</li> </ul>
Personal Settings	Logout and Check for current CMS-Client version (Liveview, Playback, E-Map)

\*Usage notice for CMSPlayer:

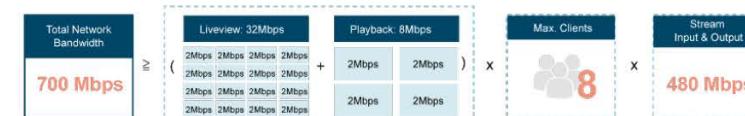
1. Please ensure NVR backup to NAS is configured (Configuration page > Backup)
2. NVR and NAS are in the same network environment
3. NVR firmware version must be FW80 and/or later

## DIGIEVER CMS-Server Hardware Requirements

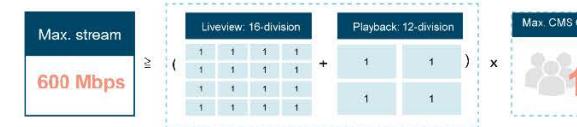
Level	PC Hardware Requirement		Max. Bandwidth <sup>1</sup> (Based on PC Network Port)	Max. Stream <sup>2</sup>
Standard	Operating System	Microsoft® Windows® 10/11	700 Mbps	256 Streams
	CPU	Intel® i7 8 Core CPU or above		
	System Memory	32G or above		
	Network port	1x 1Gbps Ethernet or above		
Advanced	Operating System	Microsoft® Windows® 10/11	7000 Mbps	600 Streams
	CPU	Intel® Xeon® E (8 Core) or Scalable Processor		
	System Memory	32G or above		
	Network port	1x 10Gbps Ethernet or above		

Note:

1. Total network bandwidth  $\geq$  Bitrate per camera (Mbps) x (total channel of Liveview & Playback) x Max. CMS Client x 2



2. Max. Stream  $\geq$  (Live view Streams) + (Playback Streams) x Max. CMS Clients



## DIGIEVER CMS-Client Hardware Requirements

Level	PC Hardware Requirement		
Standard	Operating System	Microsoft® Windows® 10/11	
	CPU	Intel® i7 8 Core CPU or above	
	System Memory	16G or above	
	Network port	1x 1Gbps Ethernet or above	

## Testing Case for Reference

Level	Camera Settings	One Monitor per PC	Two Monitor per PC
Standard	H.264, Full HD, 30fps, 2000kbps (no OSD)	Up to 12ch	Up to 6ch
	H.264, Full HD, 15fps, 2000kbps (no OSD)	Up to 16ch	Up to 10ch

\* All designs and specifications are subject to change without prior notice.



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