Hikvision iVMS-4200&4500 Training

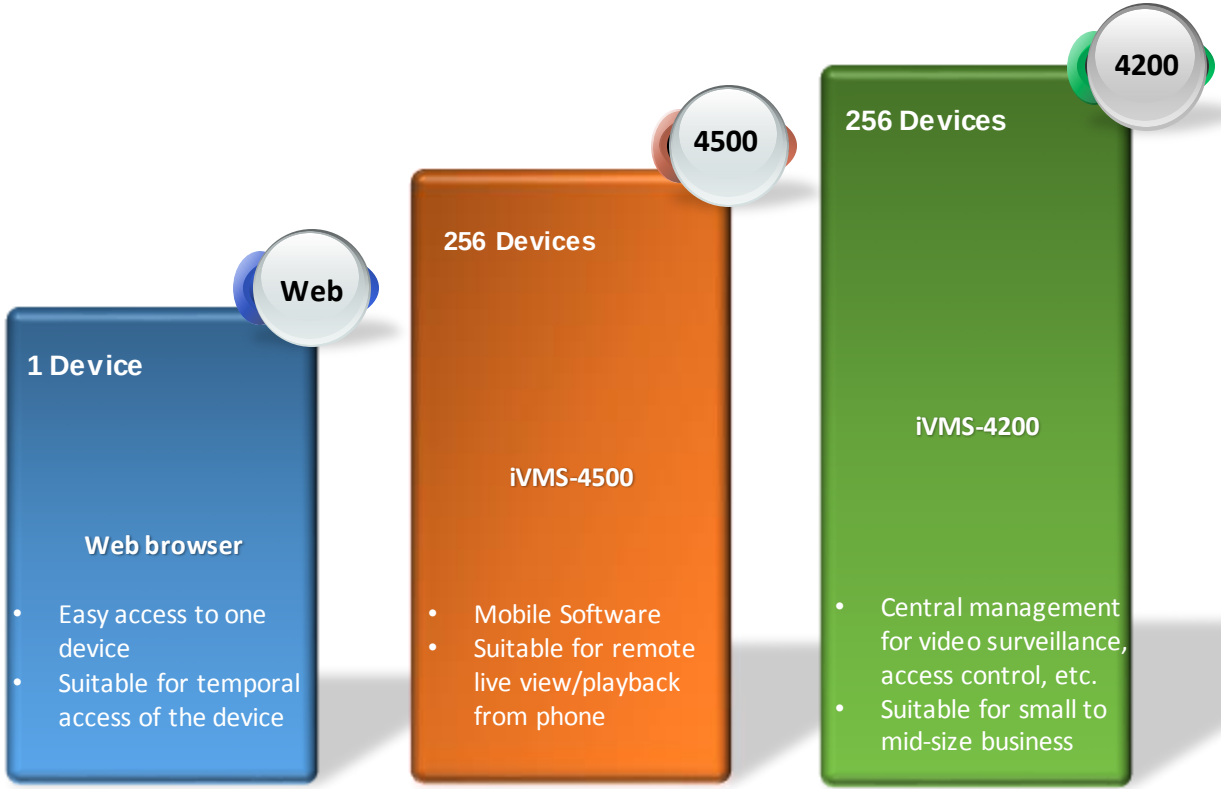
Hikvision Entry Learning

First Choice for Security Professionals

Contents

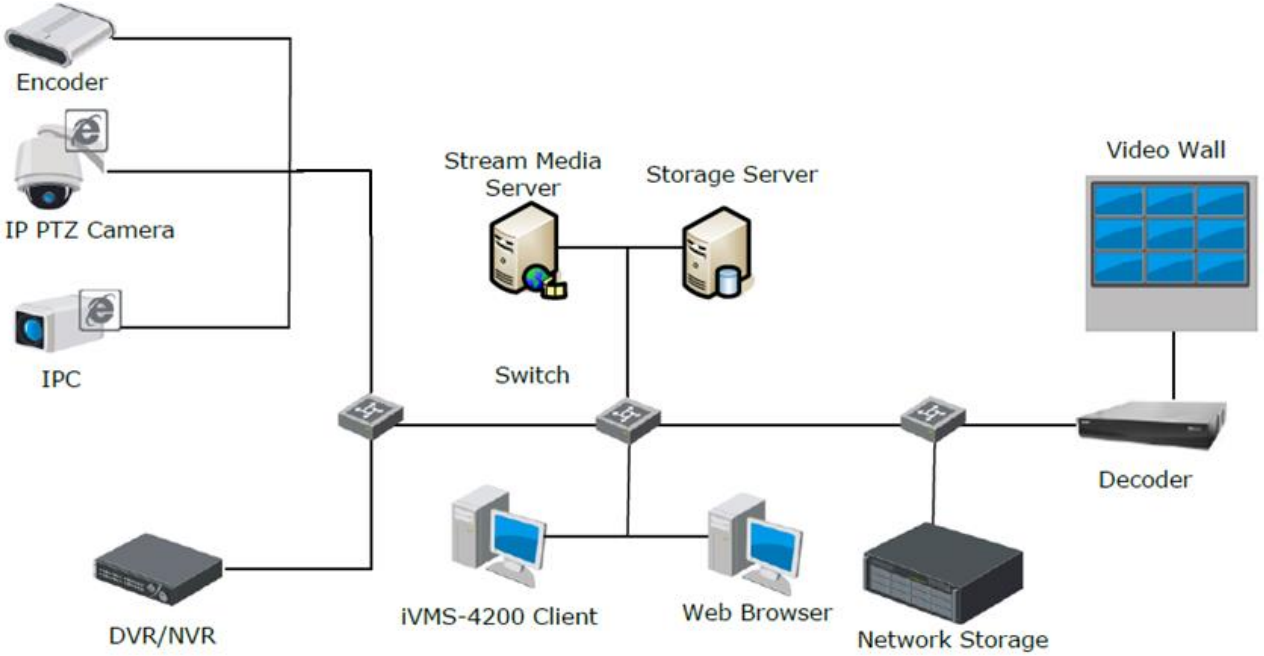
- iVMS-4200
  - Overview
  - Functions
  - Operation
- iVMS-4500

Device Access Method



Typical Application

- Video management software for DVRs, NVRs, IPCs, encoders, decoders, etc.
- Flexible distributed structure and easy-to-use operations make it suitable for small and medium sized projects



Working Environment

RAM

1G or above

Operating system

- Windows 10 (64 bit)
- Windows 8/8.1 (32/64 bit)
- Windows 7/Windows 2008 (32/64 bit)
- Windows 2003/Windows XP (32 bit)
- Windows Server 2012/Windows Server 2008 R2 (64 bit)

CPU

Intel Pentium IV 3.0GHz or above

Display

1024×768 or above

- Free to install
- Free to upgrade
- Friendly GUI

Installation notes: Install and run the software using Windows administrator user.

Overview

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Live view

- Support H.264+, H.265
- Up to 64 window division, and custom window division
- Main and auxiliary screen preview

Playback

- Support H.264+, H.265
- Normal playback, event playback, ATM playback, VCA playback
- Up to 16 channels playback
- Skip unconcerned video during VCA playback

Alarm management

- Event, alarm input, exception, zone event alarm management
- Arm/disarm control
- Alarm picture search and export

Device Management

- Remote configuration
- Online device search
- Multiple adding modes

Recording

- H.264+ recording in storage server
- Configuration of continuous recording, event recording, command recording
- Alarm picture storage in storage server

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Basic Functions

HIKVISION

Live View

E-Map

Device Management

Event Management

Record Schedule

Log Management

Remote Playback

Account Management

First Choice for Security Professionals

Live View

- Up to 64 window division
- Up to 4 screens
- Cycle Play
- Various live view functions

1-window division

4-window division

6-window division

64-window division

Cycle play
Interval: 5s-5mins

Record schedule

Support setting recording schedule of remote devices and storage servers

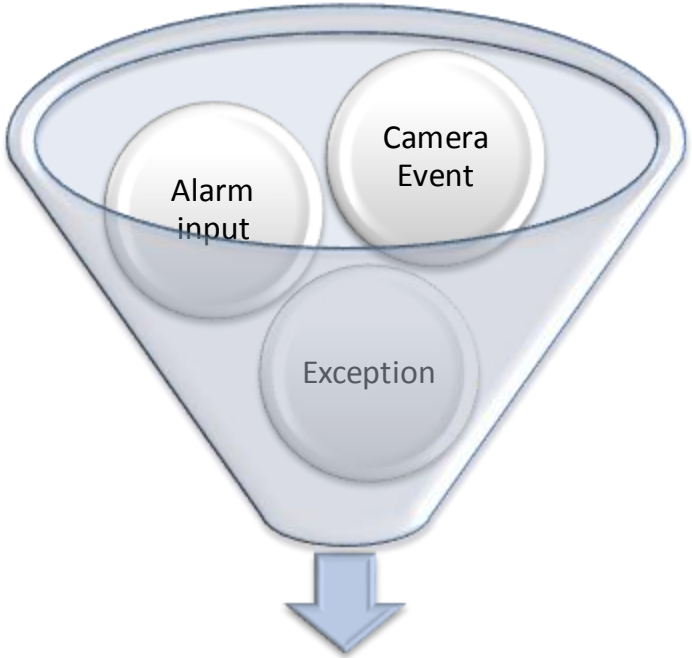
Schedule Recording	Normal continuous recording
Event Recording	Recording triggered by events
Command Recording	Recording triggered by command

Remote Playback

- Support up to 16-ch synchronous playback
- Support **VCA playback** – set VCA rule to the searched video files, and find the video that VCA event occurs, including VCA search, intrusion and line crossing.
- Support **event playback** - playback the video recordings triggered by event
- Support multiple download modes of remote record files
  - by files, by date, and by tag.

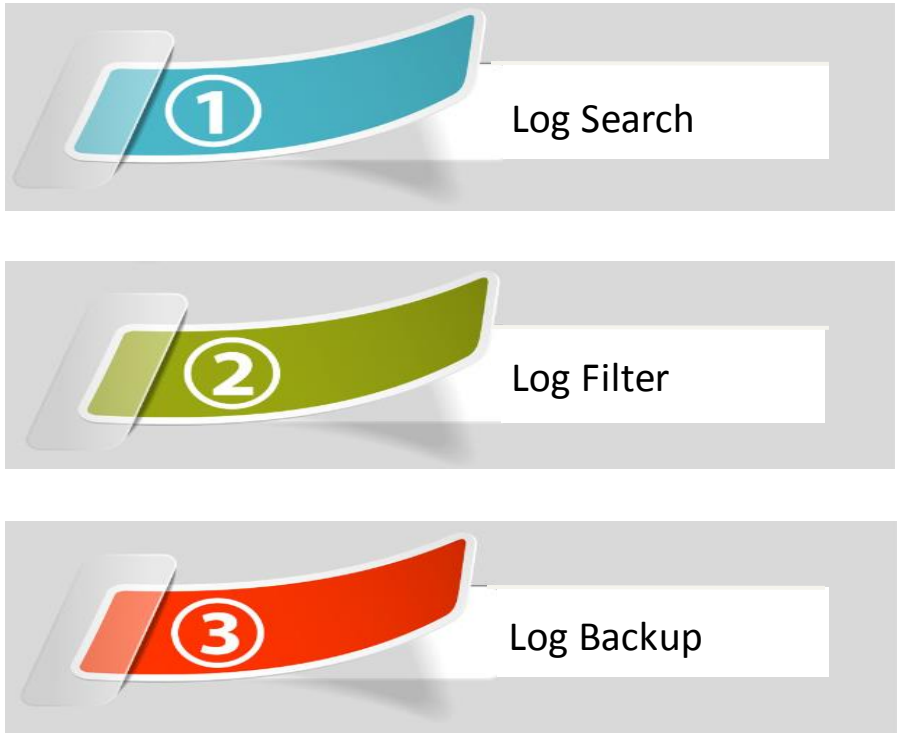
Event Management

Management on camera event, alarm input, device exception.



Linkage actions: alarm output, record, or client action

Log Management



Account Management

1. Support 3-level user account management.
2. Different accounts can be assigned with different permissions.
3. Support up to 50 user accounts.

Statistics Search

- Support searching and checking statistics of heat map, people counting, license plate, etc.

Heat Map

License plate

People Counting

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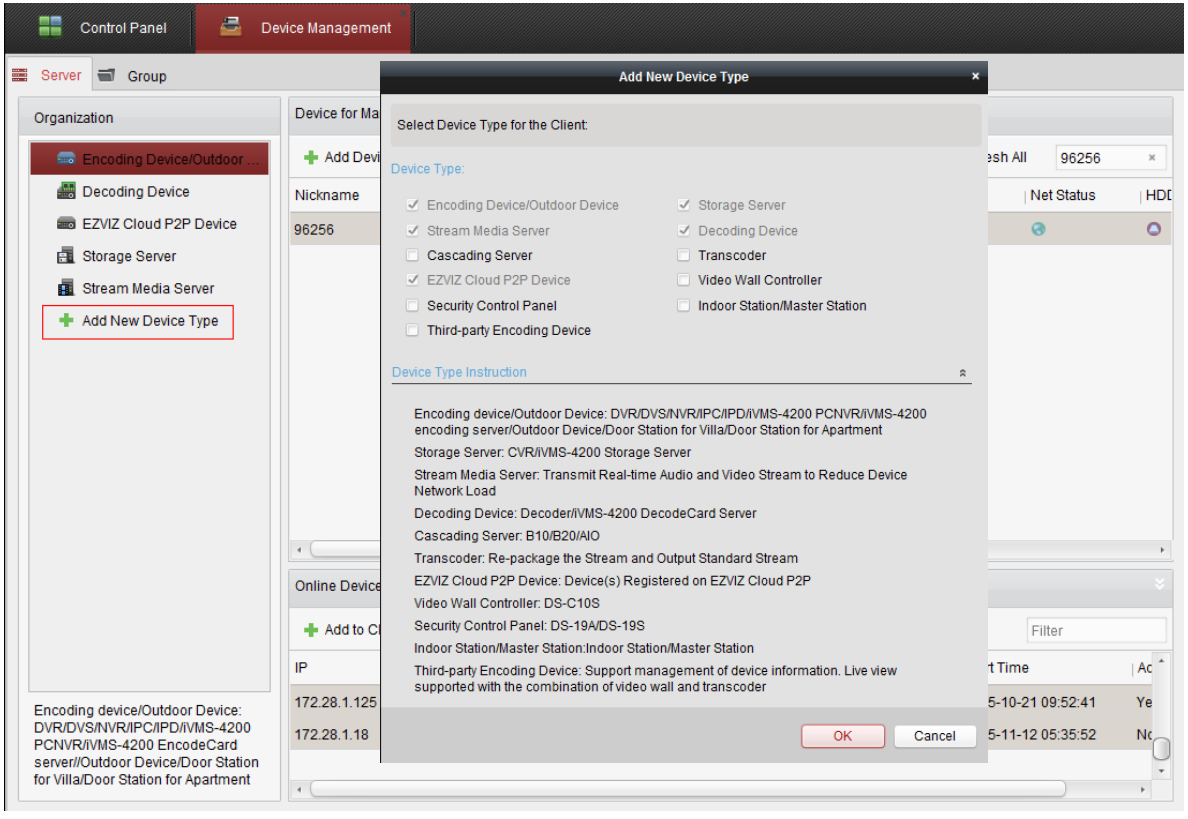
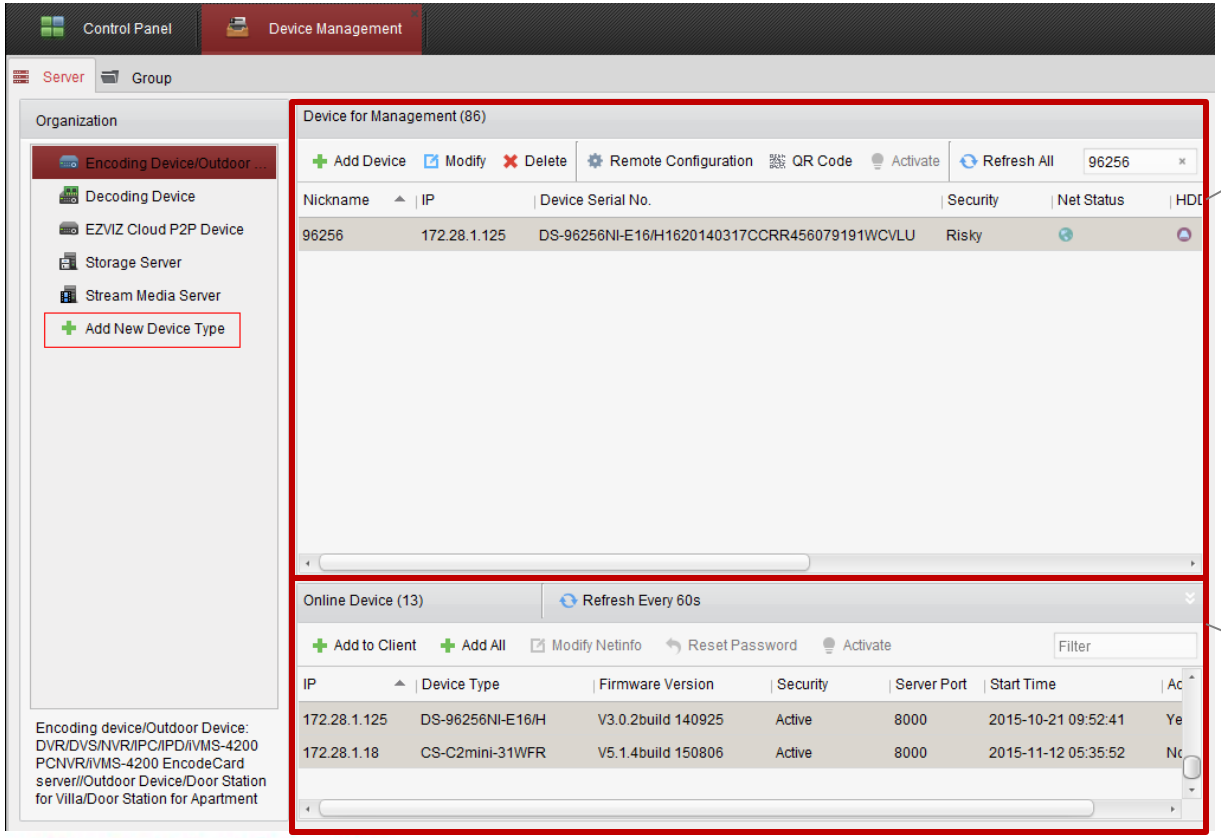
Device management



- Add the device in the corresponding Device Type.
- All the supported devices can be found.

Device management



❖ **Added device list**

1. Add device by different modes.
2. Remotely configure the online devices.

❖ **Online device list**

1. Add the device directly to the client software.
2. Reset password / Activate devices

Device management

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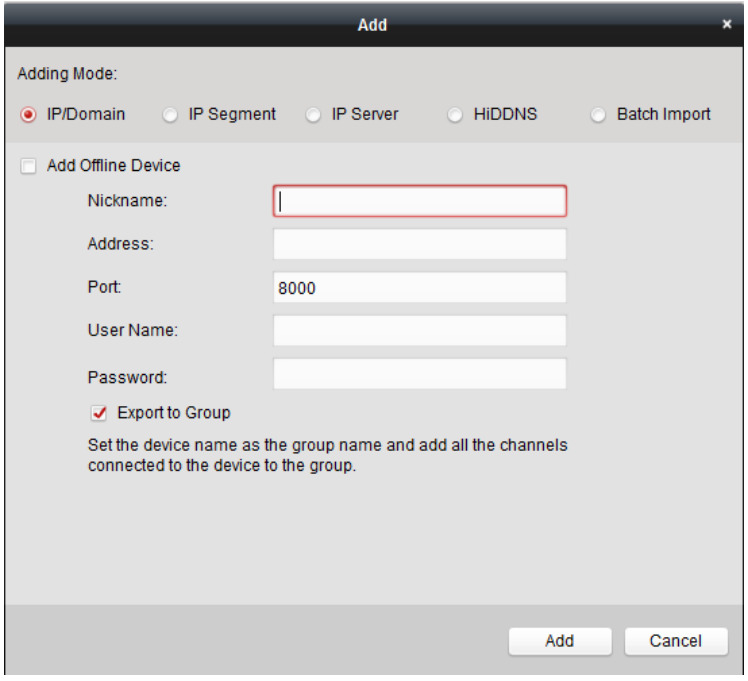
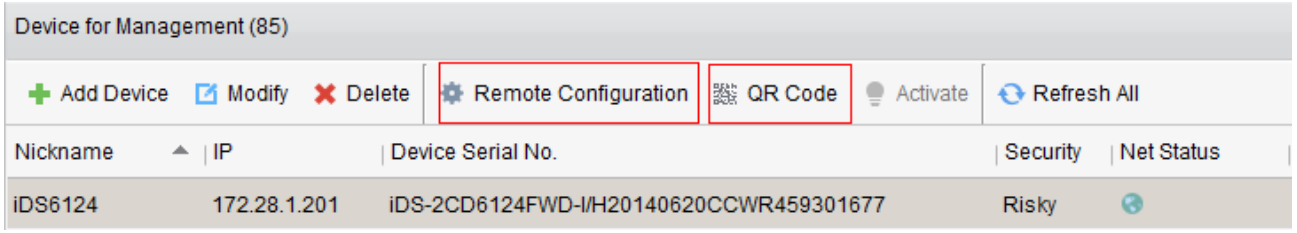
❖ Five adding modes

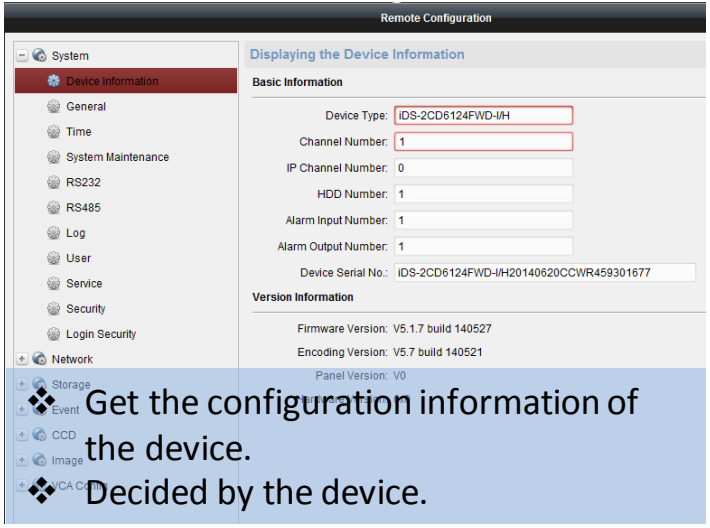


- IP/Domain: Add the device by its IP address or domain. Server port (8000 by default) is needed.
- IP Segment: Add the devices with the same IP Segment. The port number, username and password have to be the same for all the devices.
- IP Server: IP server address and device ID (serial number or device name)
- HiDDNS: use domain name registered on HiDDNS
- Batch import: export the csv file and fill in the device information, then import the file to add multiple devices.

Device management

- Remote configuration
- QR code generating

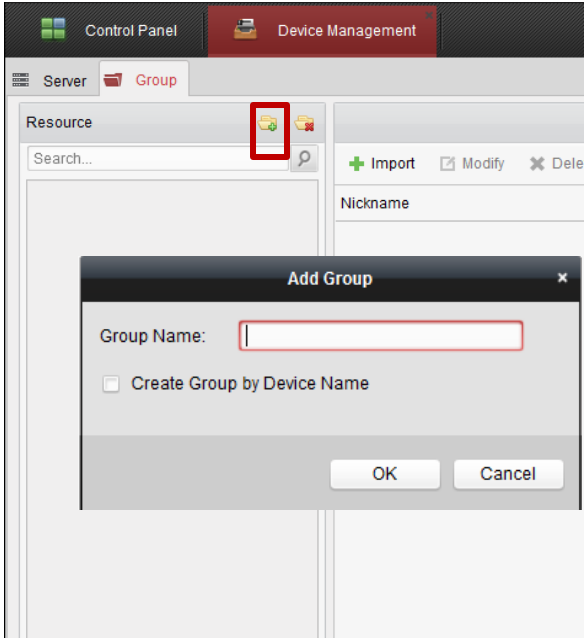




- Get the configuration information of the device.
- Decided by the device.

QR code contains the network access information of the device -> add the device by scanning the QR code on iVMS-4500.

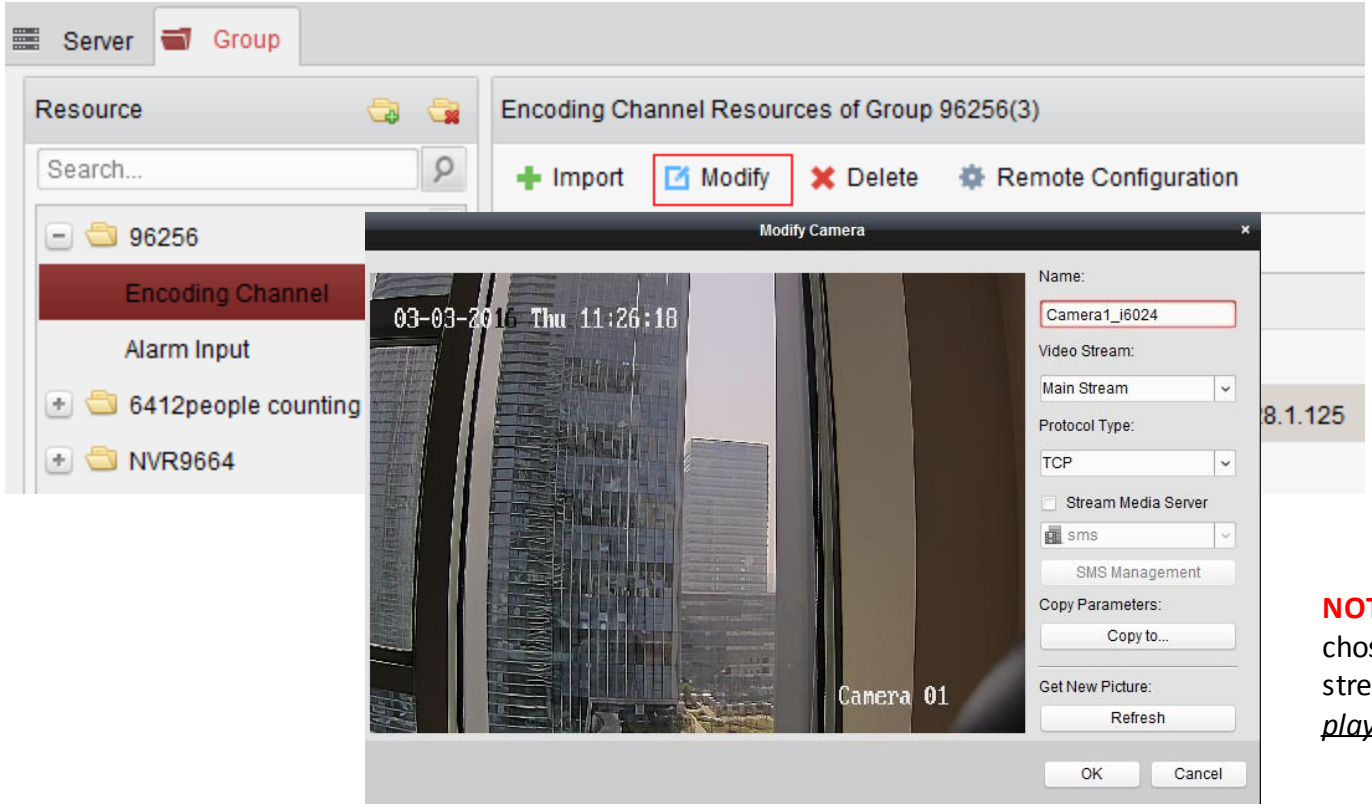
- Group management: only when you have the groups in the group list, you can select the channels for live view, playback, etc.



1. Create the group by creating a name and import the channels and alarm inputs in one's need.
2. Create the group directly using the device name and all the device channels and alarm inputs will be included in that group.

Device Management

Modify channel's parameter



NOTE: The video stream chosen here will affect the stream type in *live view* and *playback*

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Live View Main interface

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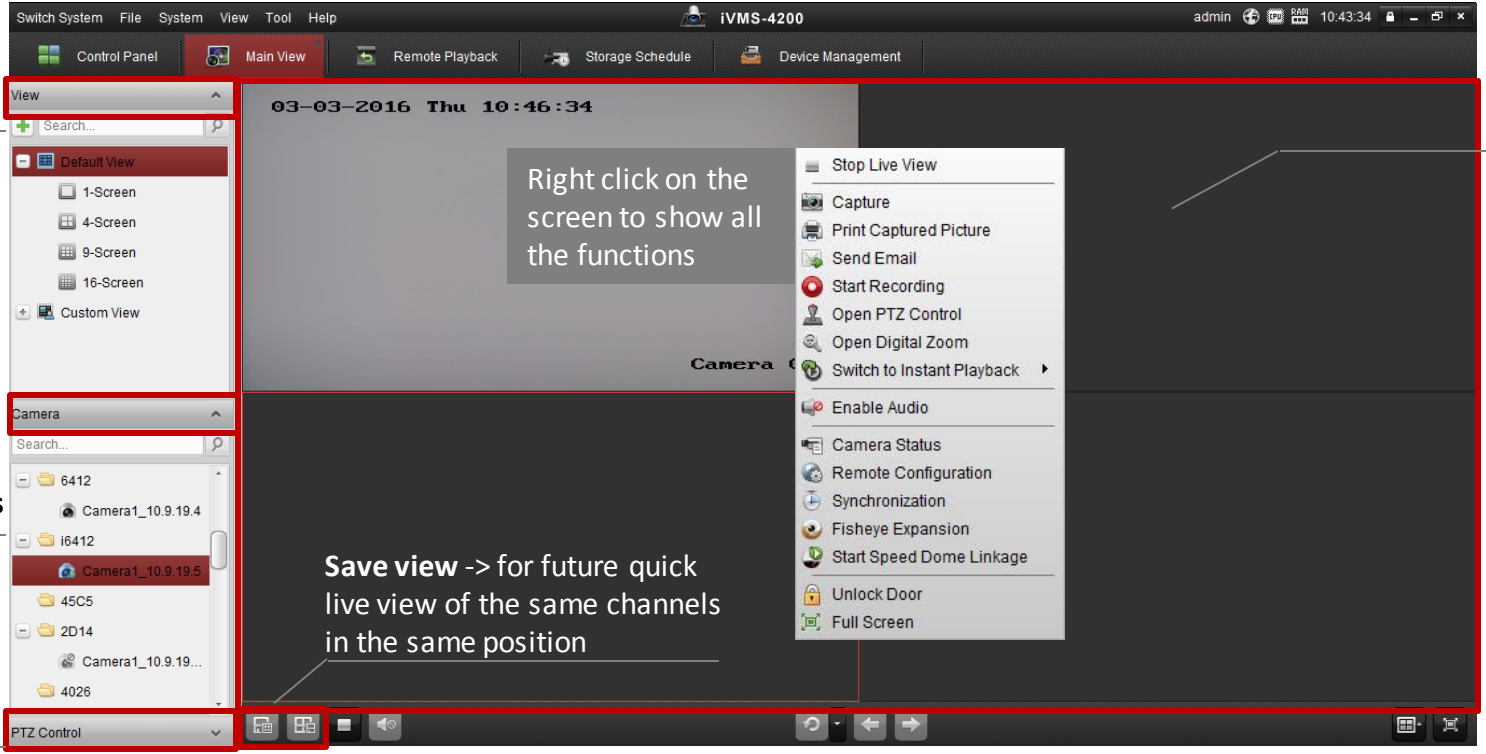
View modes

Click here for quick access of the previous saved views

All the groups

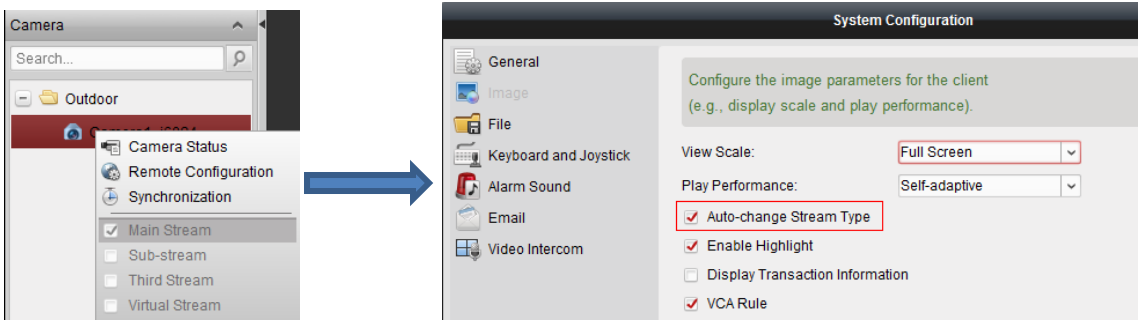
Click to open the **PTZ control**

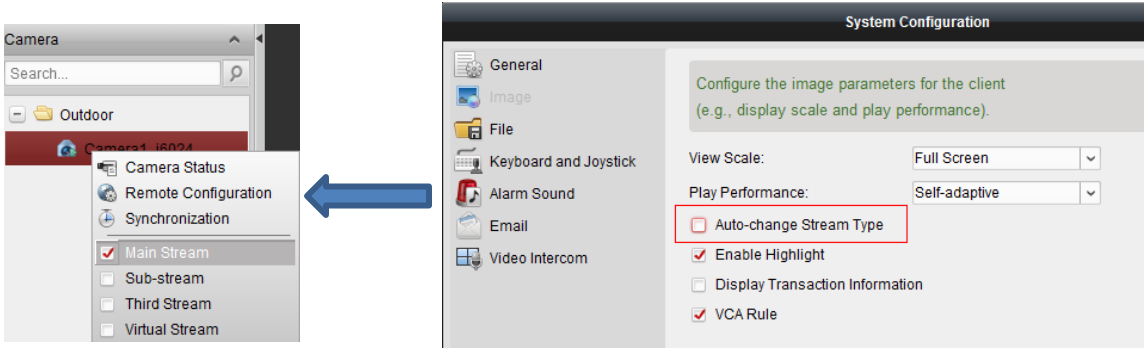


Live view

Up to **64** window division

- Right click on one channel and change the stream type if needed.





***Auto-change stream type*:**
1&4 window division – main stream;
9 and above - sub stream

Virtual Stream:
transcoded stream from NVR

Live View Cycle Play

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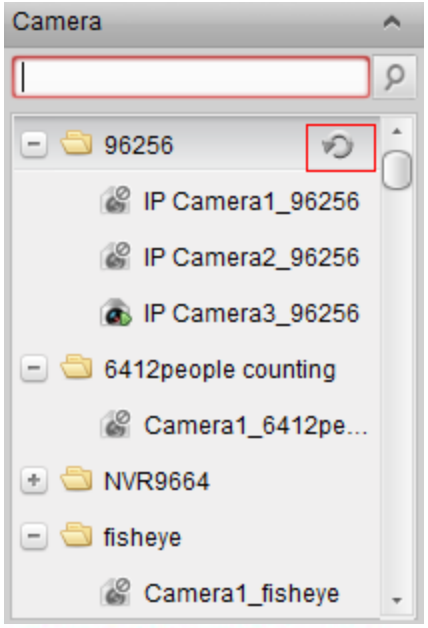
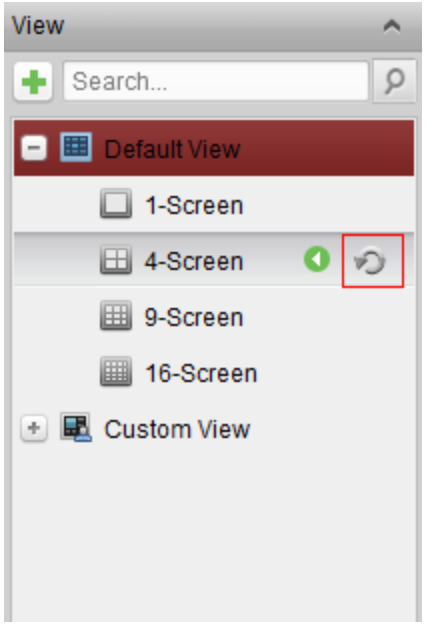
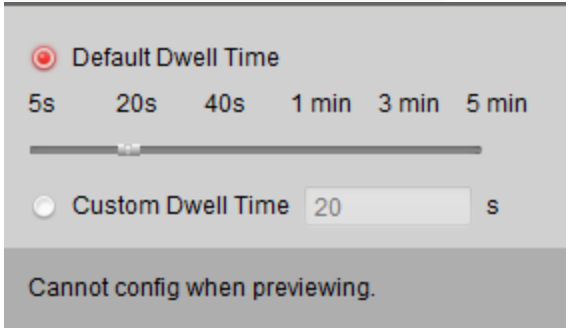
❖ Cycle play among:

- all the imported cameras in 1/4/9/16-screen
- all the custom view profiles
- selected camera group in one selected window





Interval: 5s-5mins



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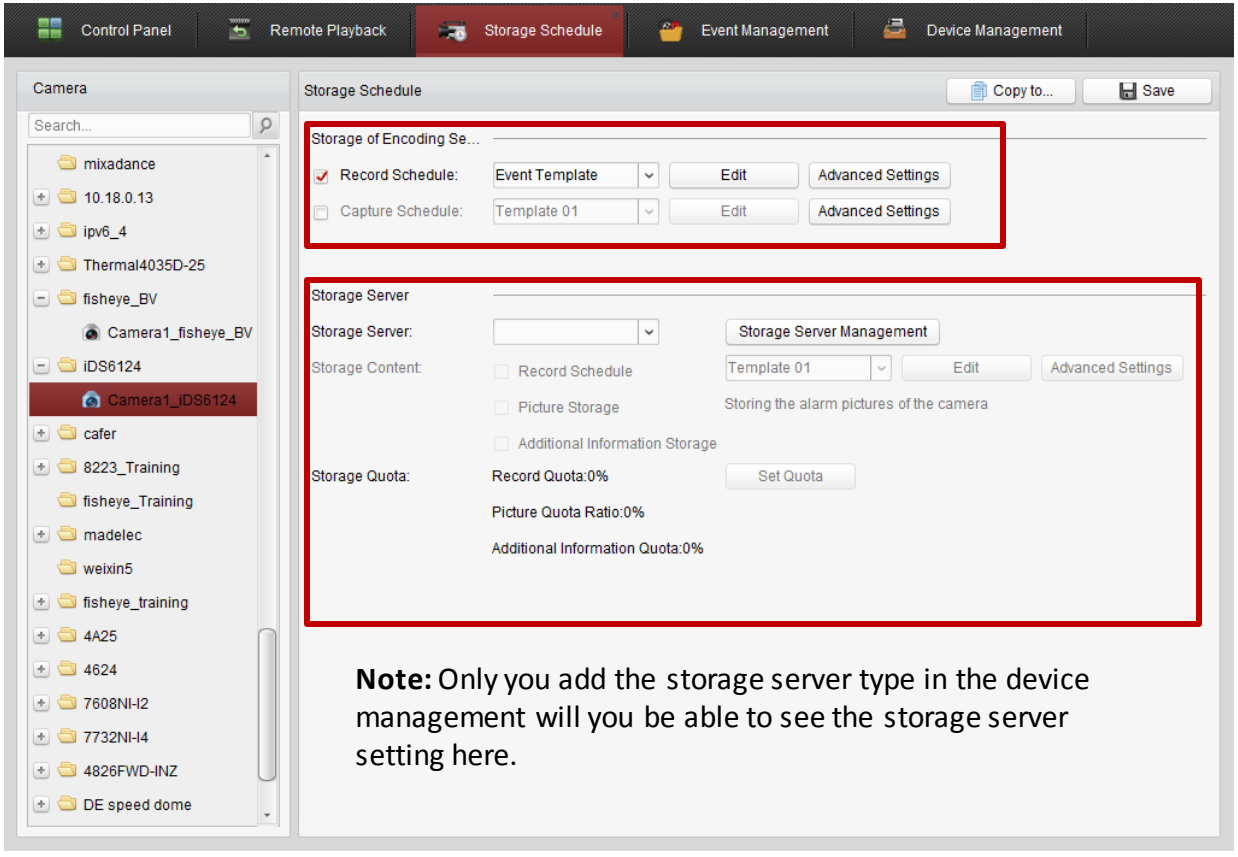
Record schedule



Note: Only you add the storage server type in the device management will you be able to see the storage server setting here.

- Storage settings of the device (IPC: SD card; DVR/NVR: HDD)
- Storage settings of the storage server (can be CVR, 4200 storage server)

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Remote Playback

Normal playback

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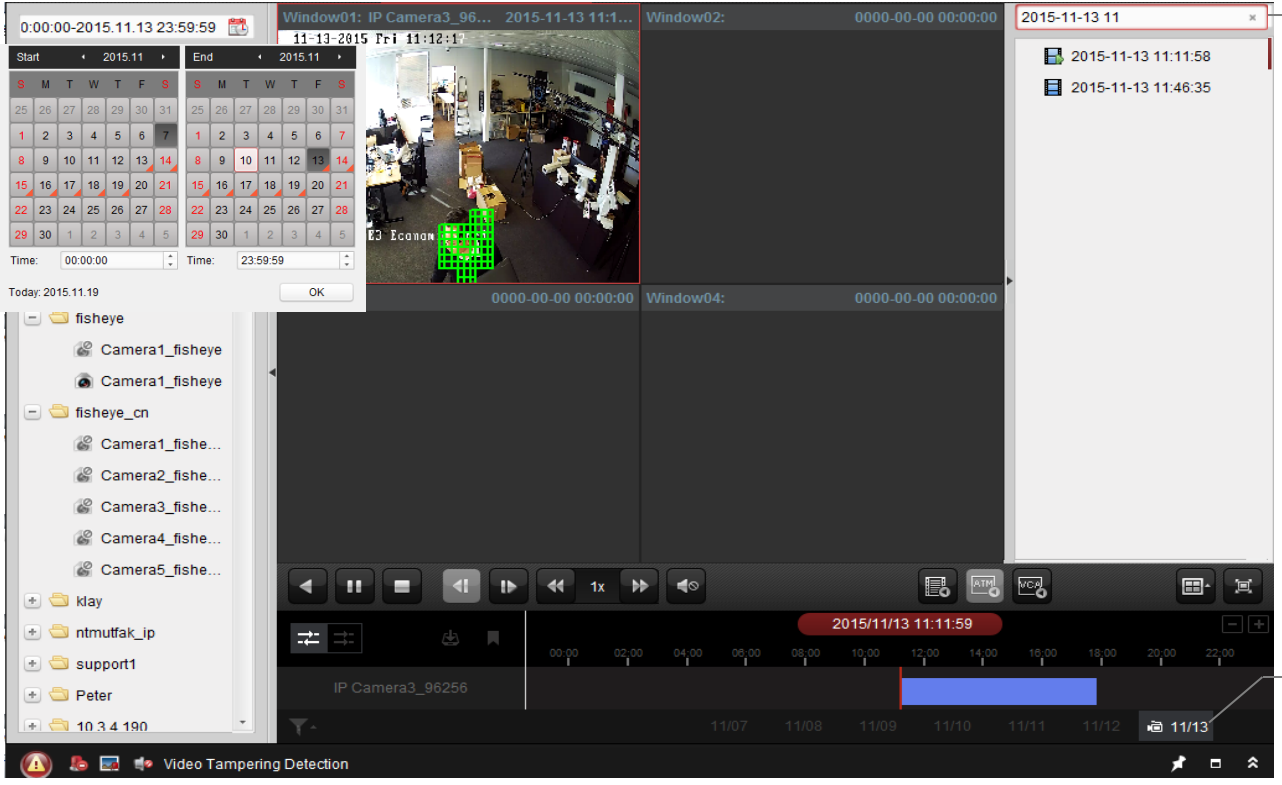
Filter the video.

Video hint

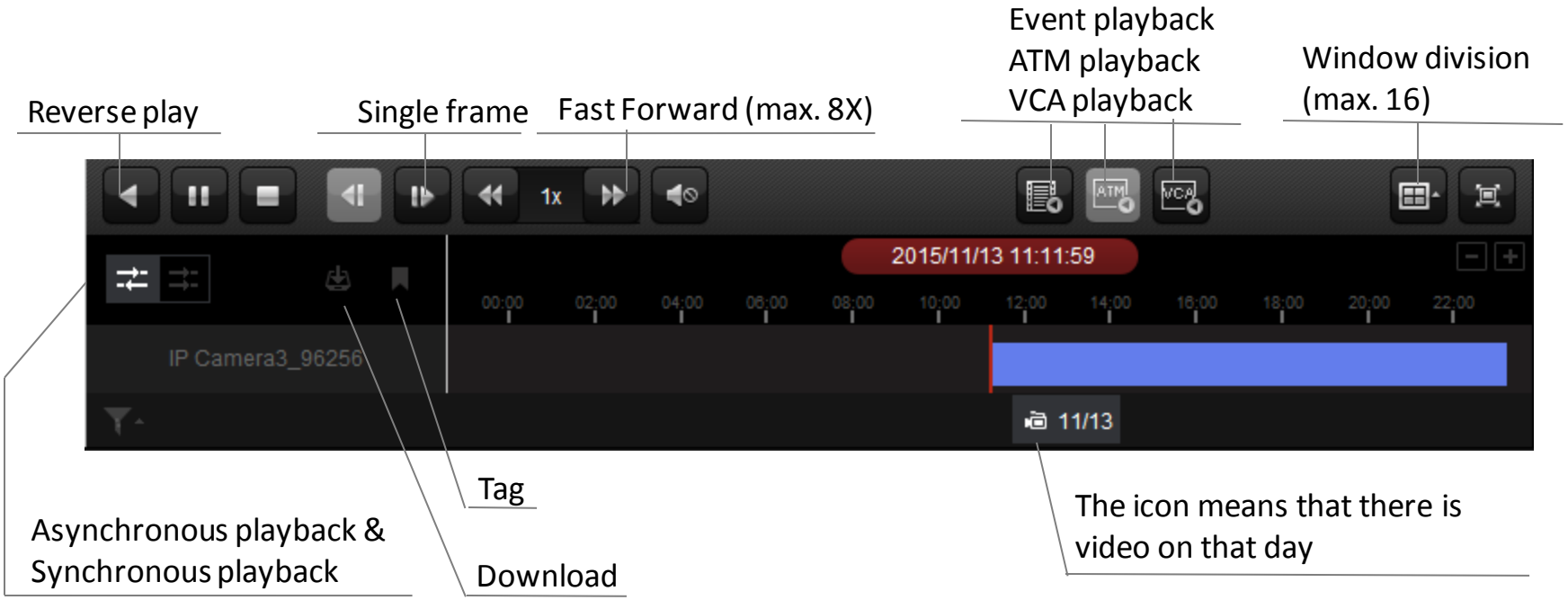


Video list

You can select different date to see the video.

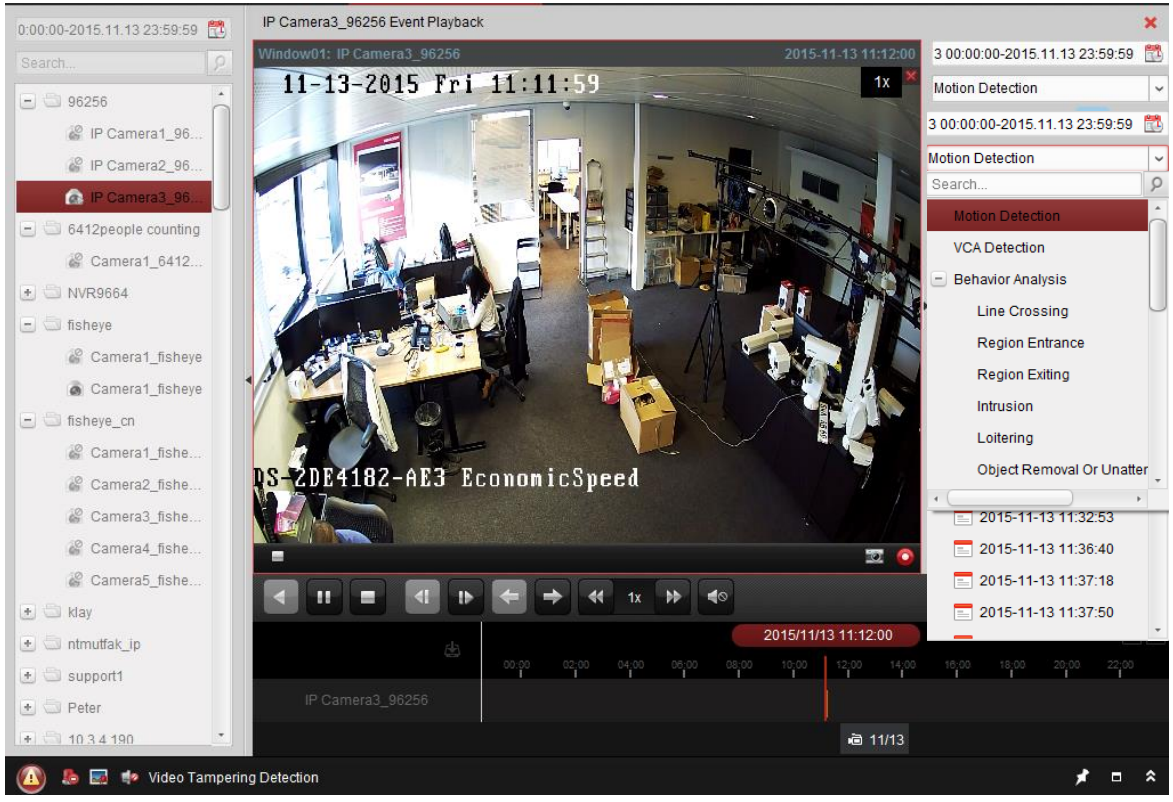
Remote Playback

Playback Toolbar



Remote Playback Event Playback

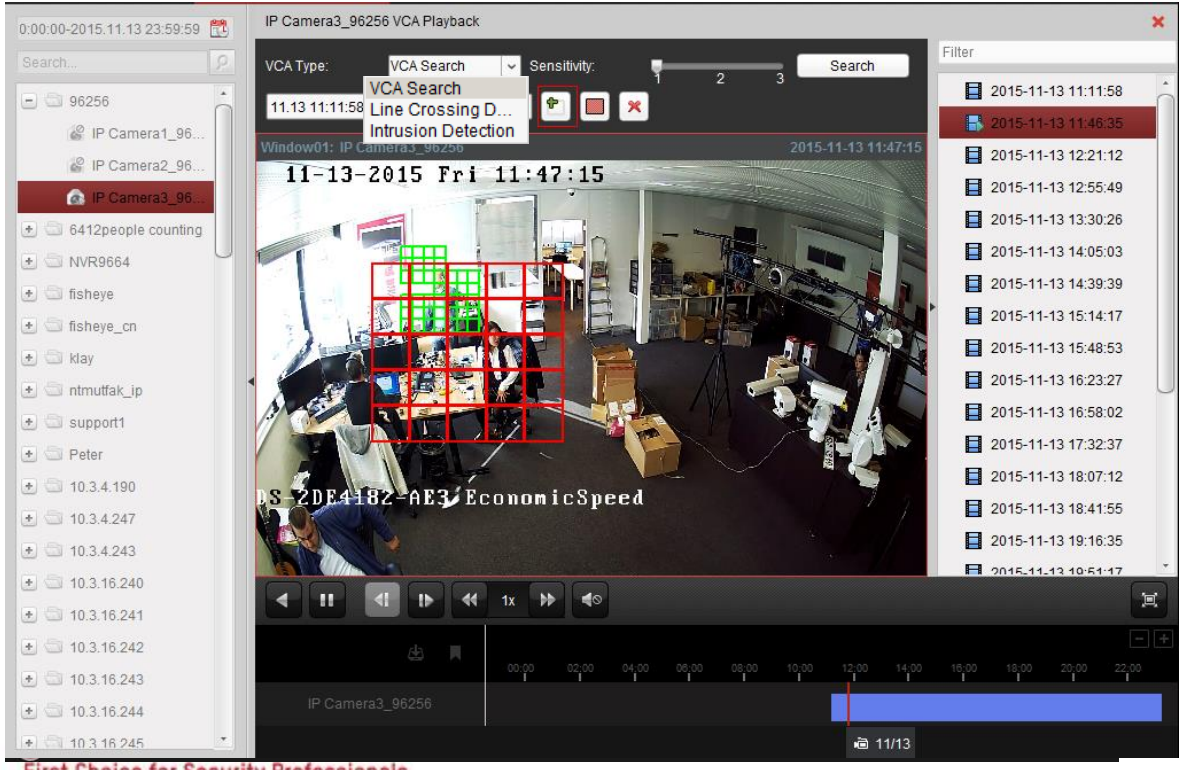
- Playback the video recordings triggered by event.



Behavior analysis:
for iDS devices

Remote Playback VCA Playback

- Set VCA rule to the searched video files, and find the video that VCA event occurs, including VCA search, intrusion and line crossing.



- Choose the VCA type
- Draw the detection area
- Choose sensitivity
- Search

❖ Results (by default)

Video without event will be played back at 8X speed, and video with event will be played back at normal speed.

❖ Results (if configured)

Skip the video without event.
System configuration -> skip unconcerned video during VCA Playback

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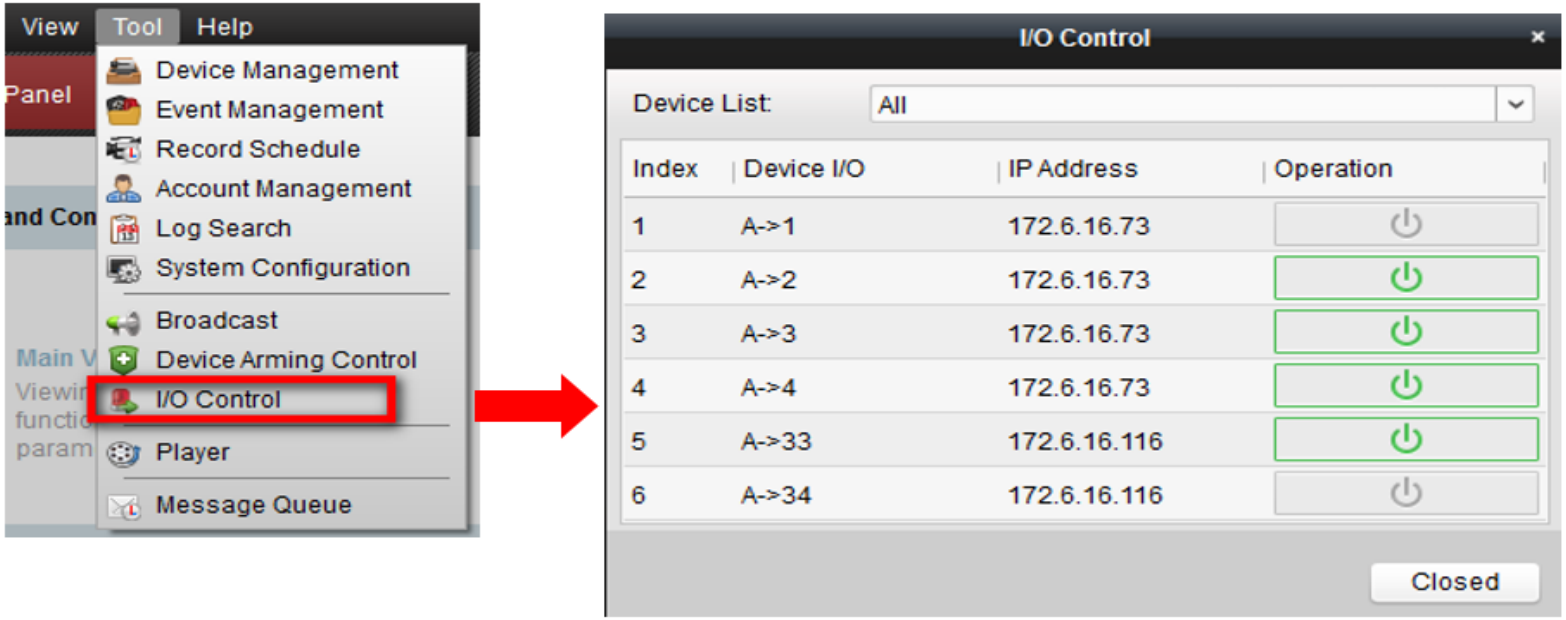
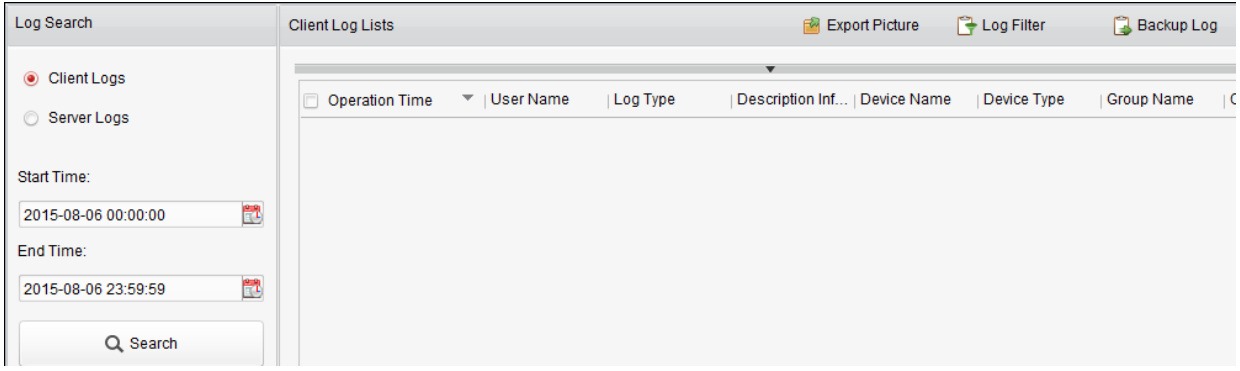
Alarm Output Control

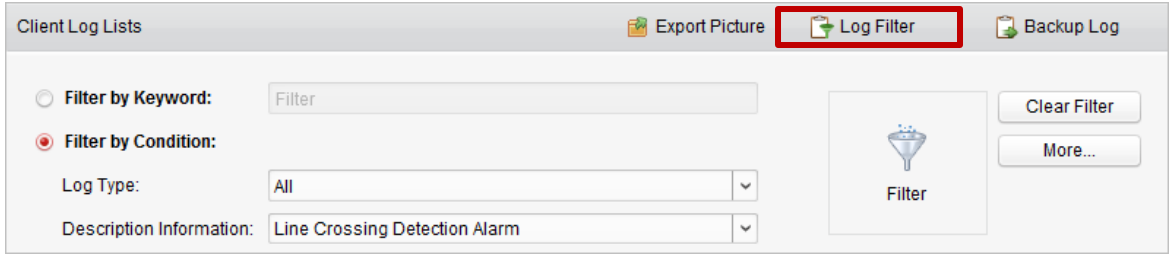
- Tool >> I/O Control >> Manually turn on or turn off alarm outputs of the devices.



Log Management

- Enter log search >> Select a log type >> Select a device >> Filter Log and backup log.
- You can search the log file of the connected devices or the iVMS-4200 software.





- **Export Picture:** Export the alarm pictures stored in storage server

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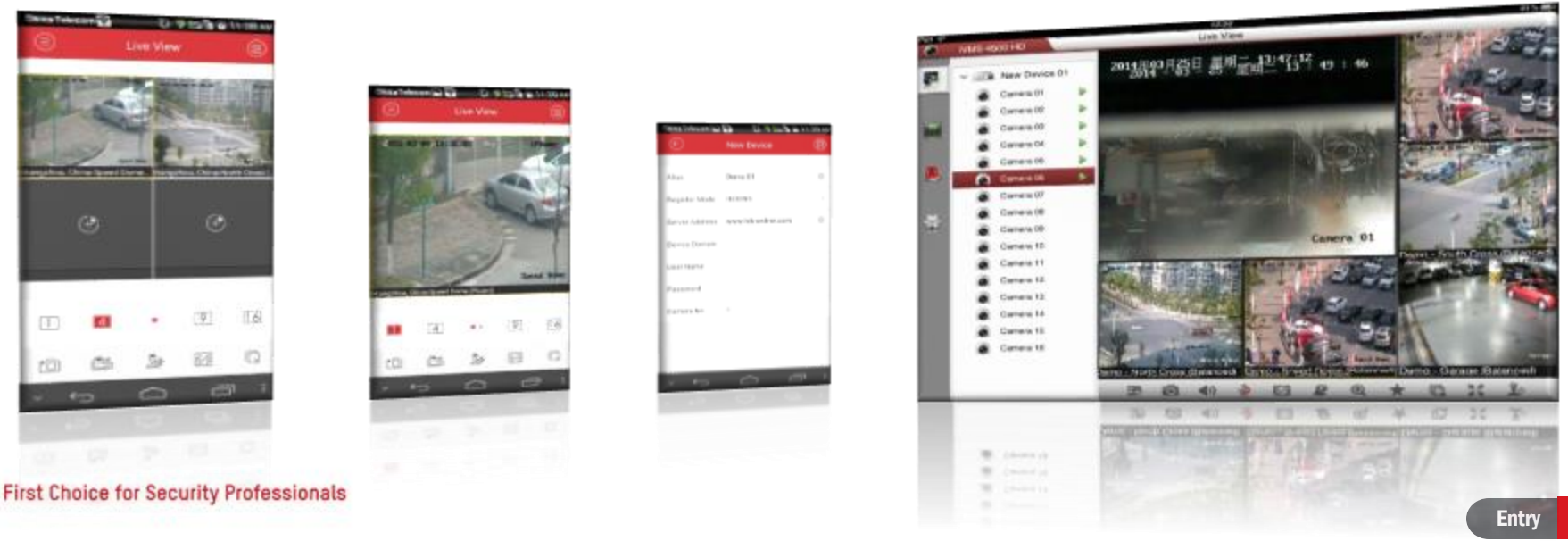
iVMS-4500

- iVMS-4500 is a mobile software available on iOS, and Android. It can access and manage the network camera, speed dome camera, DVR, NVR, etc. via Wi-Fi/2G/3G/4G.

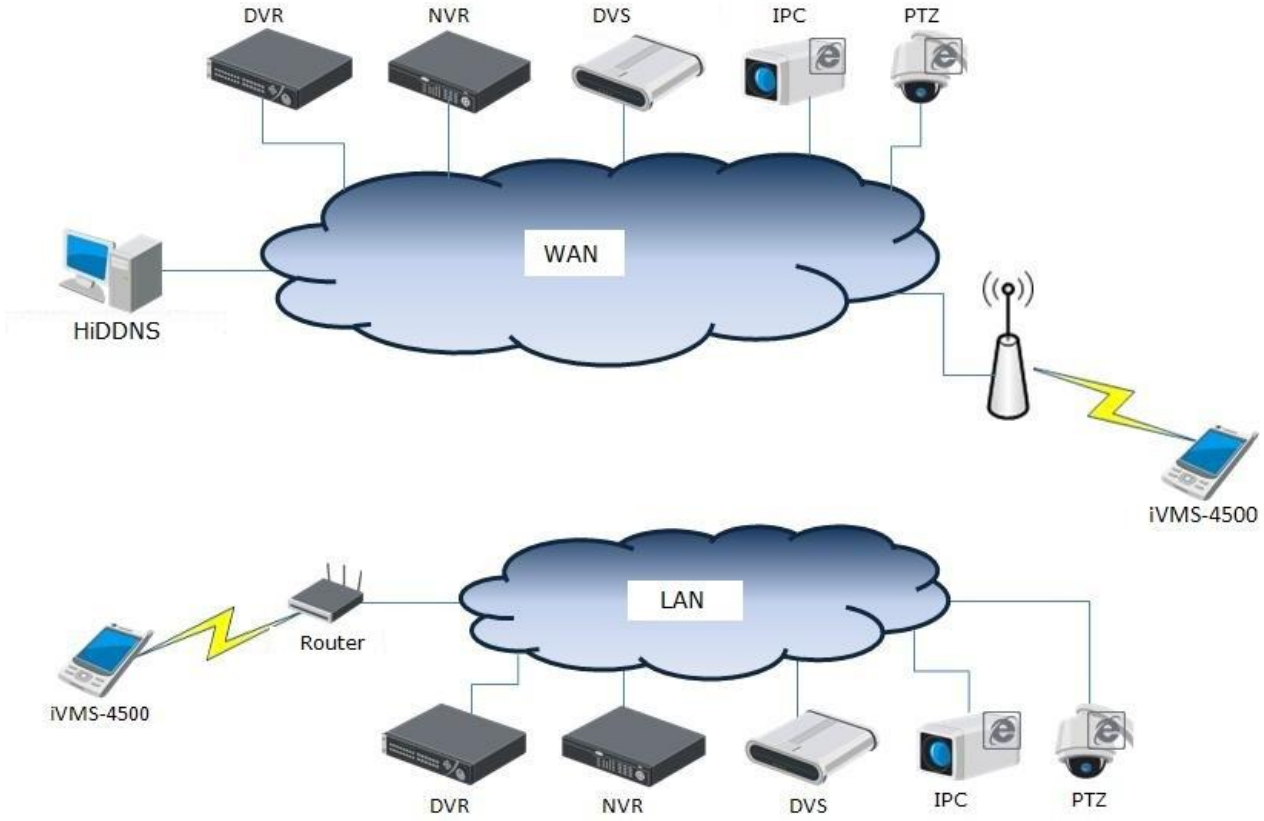


First Choice for Security Professionals

Supported Mobile Operation System

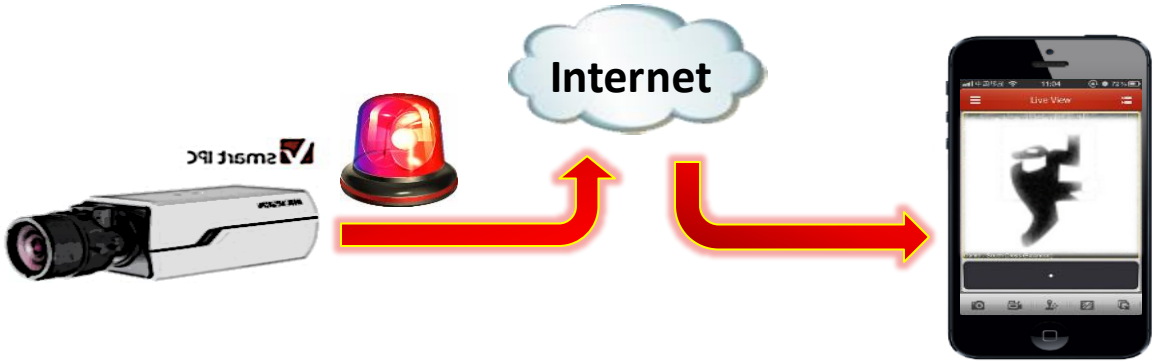
Different versions of HIKVISION **iVMS-4500** have been developed to support different smartphone operation system. Offering you with more choices.

Application



Real-time Alarm Push Notification

- **Feature:**
  - Alarm message push to the mobile client.
- **Benefit:**
  - Get the spot scene at the first time so as to take emergency methods and reduce the loss of property.

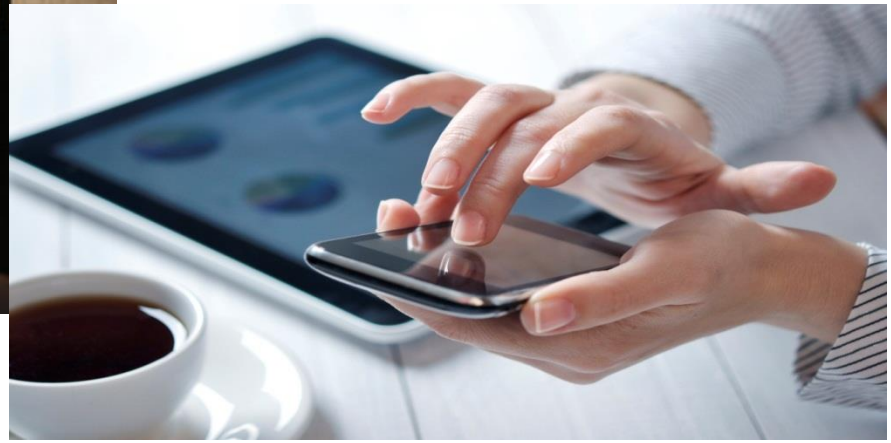


Real-time Alarm Push Notification

HIKVISION

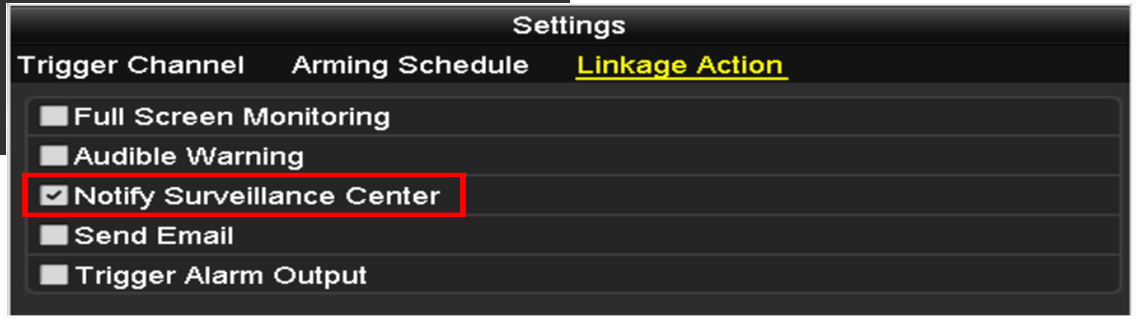
Alarm Push Notification

Household Break-in
Motion Detection

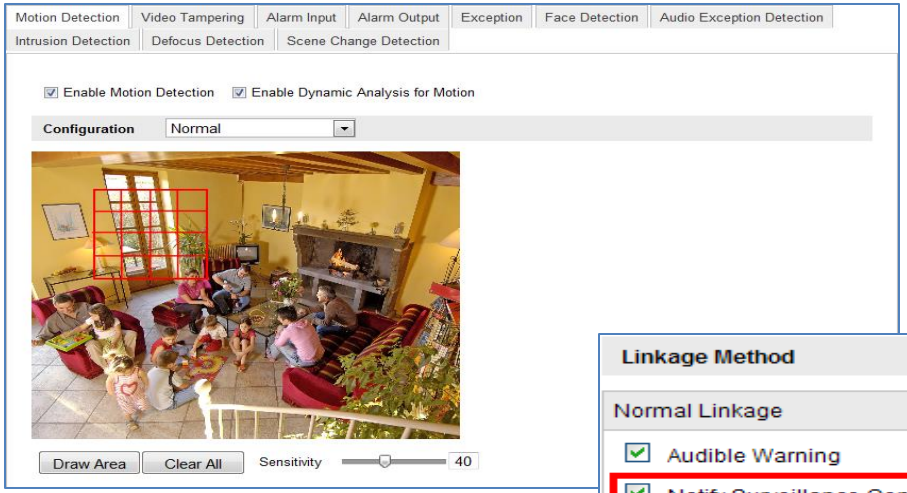


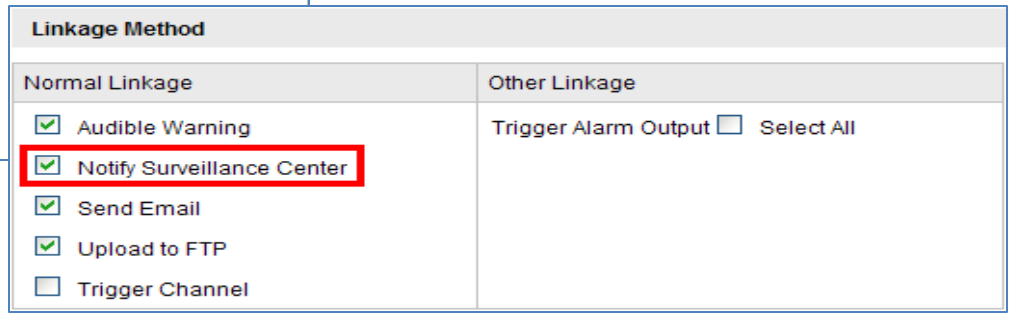
Trigger Alarm Push > React

Real-time Alarm Push Notification DVR/NVR Configuration

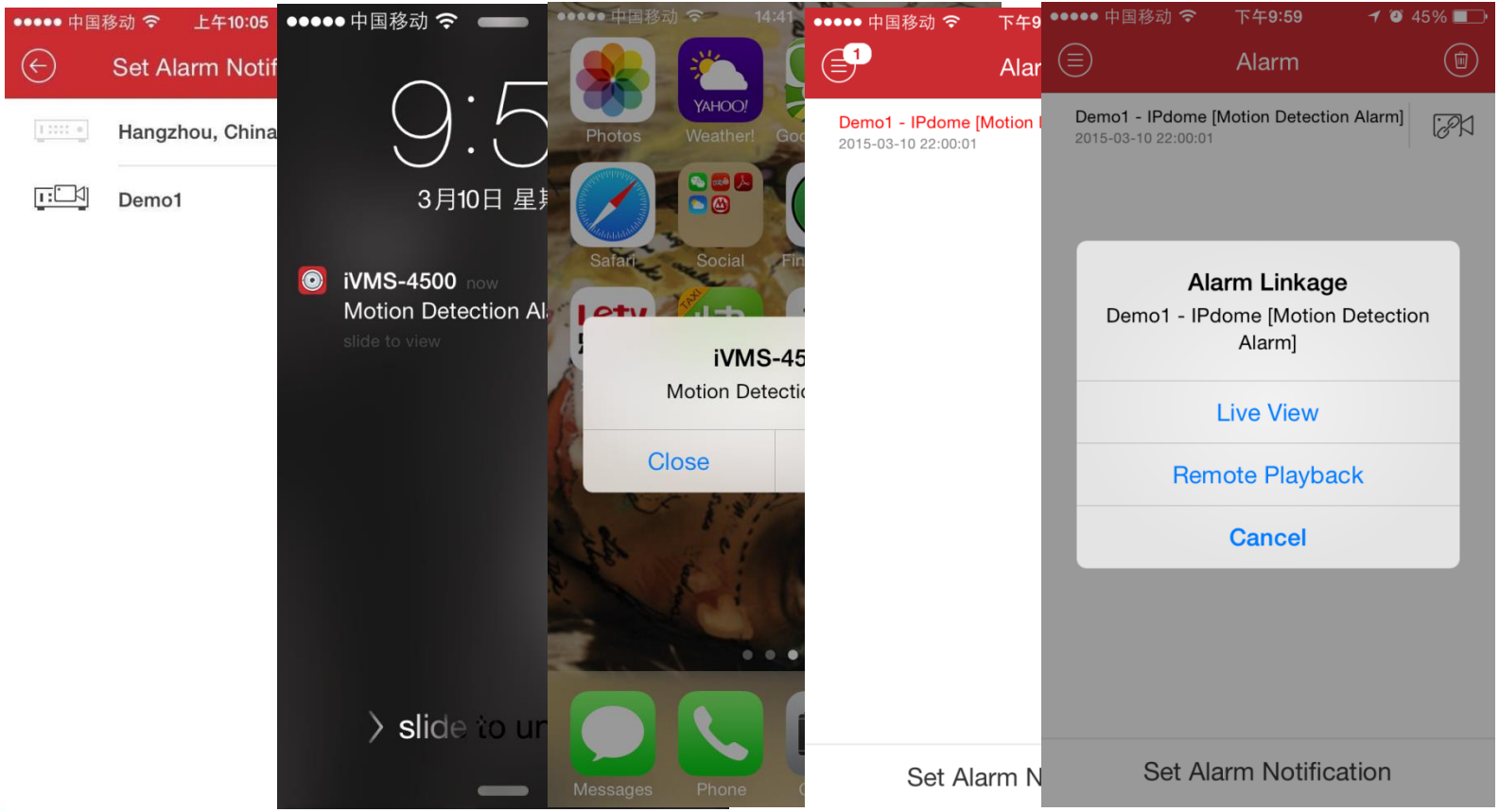


Real-time Alarm Push Notification Network Camera Configuration





Real-time Alarm Push Notification iVMS-4500 Configuration



Appendix: Specification of iVMS-4200 Client

iVMS-4200 Client	
Manageable Encoding Device	256
Max. Group	256
Max. Imported Camera	1024
Max. Camera Number in One Group	256
Max. Storage Server	16
Max. Stream Media Server	16
Max. Decoding Device	64
Max. Live View Camera	64
Max. Live View Split Screen	4
Max. User	50
Max. Playback Channel	16
Max. Simultaneous Download Task	16
Max. E-map	256

Appendix: Specification of iVMS-4200 Client

Storage Server	Recording Performance	64*2Mbps
	VOD Performance	64*2Mbps
	Max. User	32
	Max. Connected iVMS-4200	No Limitation
Stream Media Server	Incoming Connection	64*2Mbps
	Outgoing Connection	200*2Mbps

iVMS-4200 Client	
Max. Video Intercom Device	indoor station/master station 1024 outdoor station 256
Max. Card Number (video intercom)	50000
Max. Security Control Panel	50

Appendix: Specification of iVMS-4500 Client

iVMS-4500 Client	
Manageable Encoding Device	256
Max. Live View Camera	32
Max. Live View Window Division	16
Max. Playback Channel	4
Max. Favorite Channel	32
Max. Resolution	1080P