

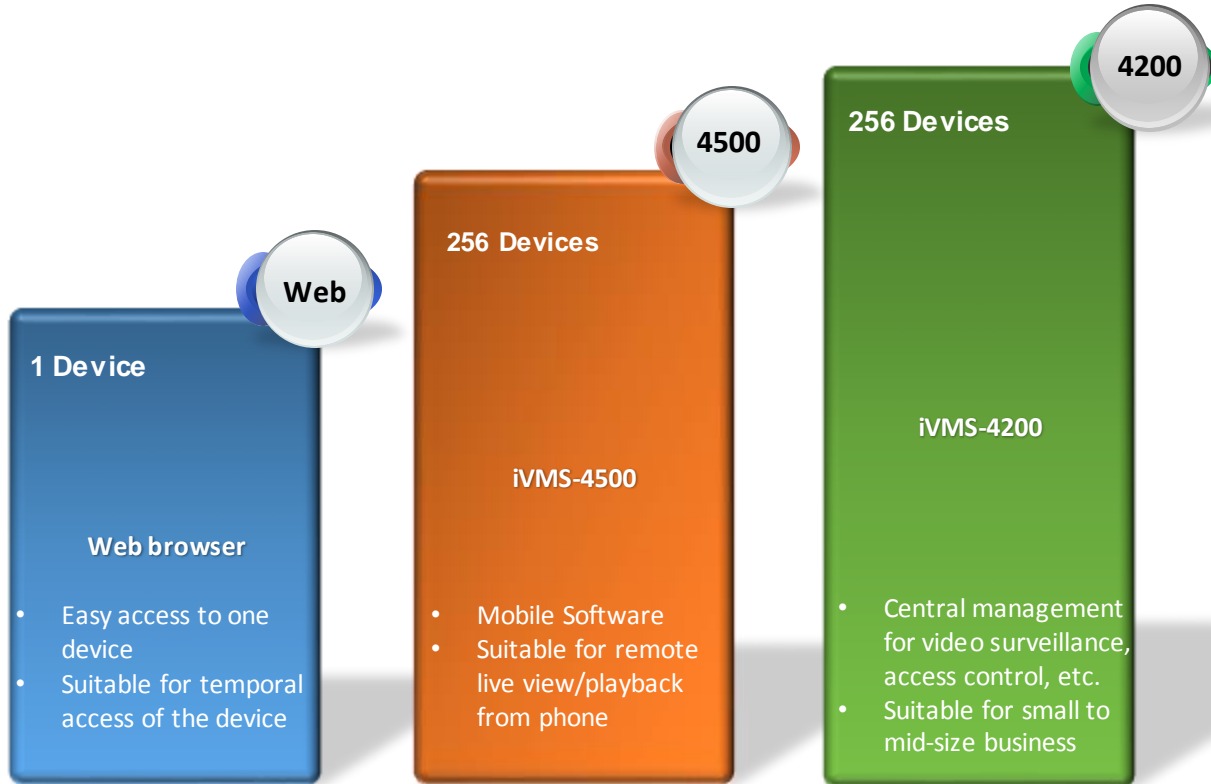


Hikvision iVMS-4200&4500 Training

Hikvision Entry Learning

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

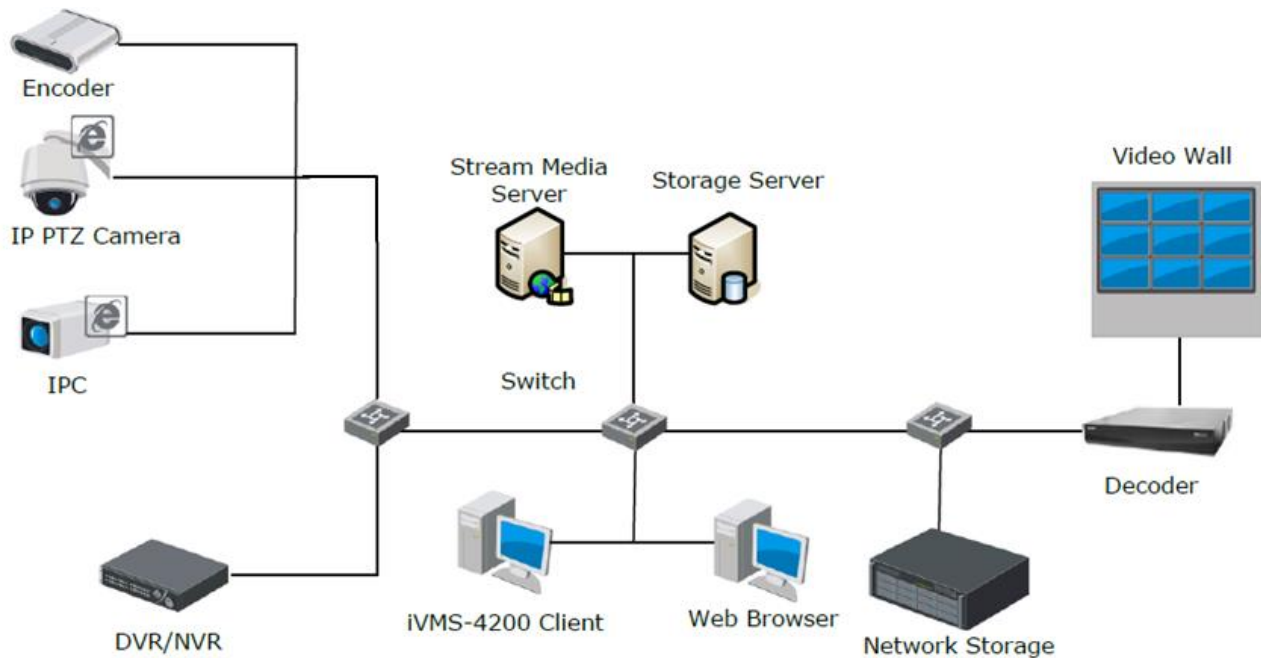
Device Access Method



First Choice for Security Professionals

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



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.

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

- **iVMS-4200**
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Basic Functions




Live View
Viewing live video, controlling functionality and setting image parameters.




E-Map



Device Management




Event Management




Record Schedule



Log Management



Remote Playback



Account Management

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



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

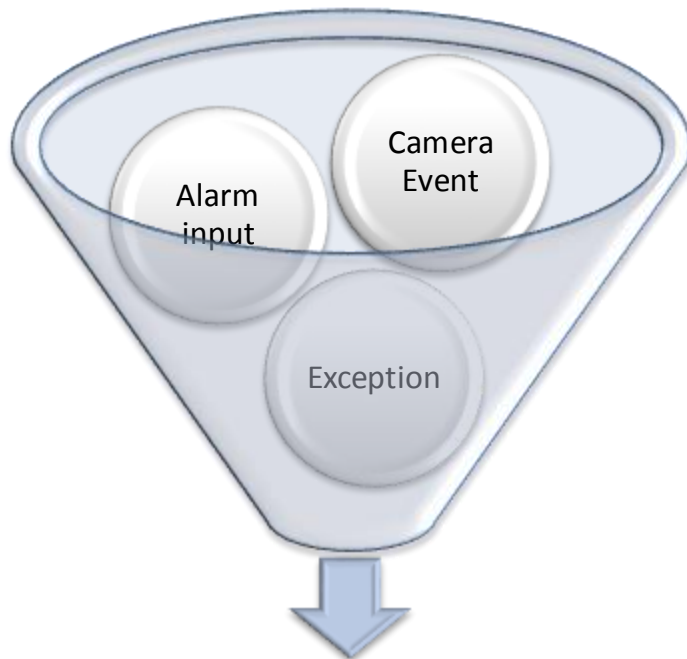
Remote Playback

- 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.



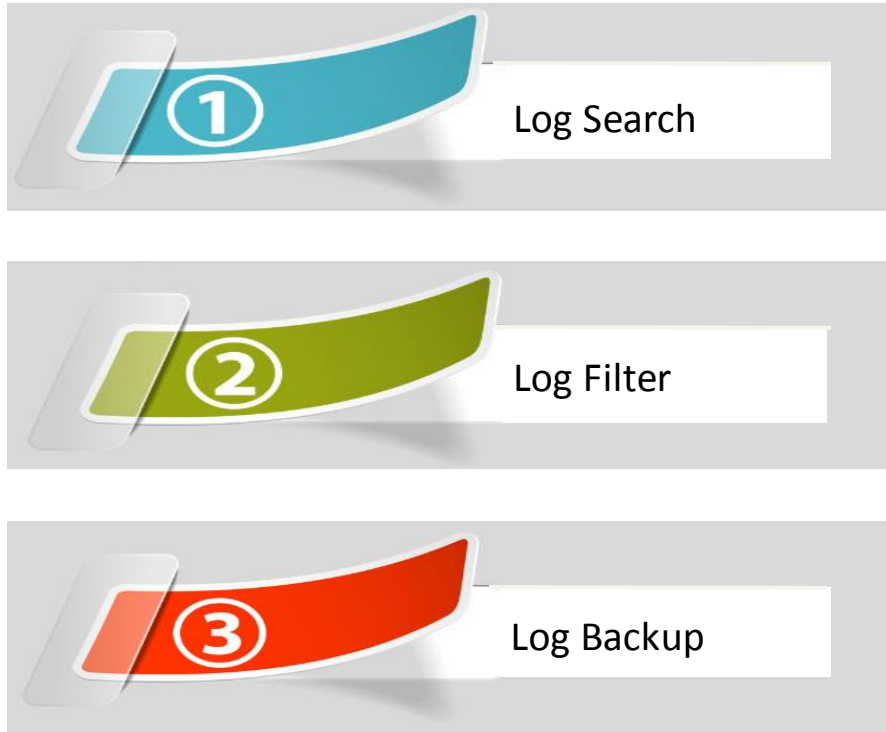
Event Management

Management on camera event, alarm input, device exception.



Linkage actions: alarm output, record, or client action

Log Management



Client Log

Server Log

Account Management

1

Support 3-level user account management.



Super User

2

Different accounts can be assigned with different permissions.



Administrator

3

Support up to 50 user accounts.



Operator

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




Heat Map



License plate



People
Counting

- **iVMS-4200**
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- 
- **Device Management**
 - **Live View**
 - **Recording**
 - **Playback**
 - **Others**

The screenshot shows the 'Device Management' section of a control panel. A dialog box titled 'Add New Device Type' is open, allowing the user to select a device type for a client. The dialog lists various device types with checkboxes, including Encoding Device/Outdoor Device, Stream Media Server, Cascading Server, EZVIZ Cloud P2P Device, Security Control Panel, Third-party Encoding Device, Storage Server, Decoding Device, Transcoder, and Indoor Station/Master Station. Below the list is a 'Device Type Instruction' section with detailed descriptions for each device type. The background interface shows a table of online devices with columns for IP, Nickname, and Online Time. The 'Add New Device Type' button in the left sidebar is highlighted with a red box.

IP	Nickname	Online Time	Ac
172.28.1.125	96256	5-10-21 09:52:41	Ye
172.28.1.18		5-11-12 05:35:52	Nc

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

Control Panel | Device Management

Server | Group

Organization

- Encoding Device/Outdoor ...
- Decoding Device
- EZVIZ Cloud P2P Device
- Storage Server
- Stream Media Server
- + Add New Device Type

Device for Management (86)

+ Add Device | Modify | Delete | Remote Configuration | QR Code | Activate | Refresh All | 96256

Nickname	IP	Device Serial No.	Security	Net Status	HDD
	96256	172.28.1.125	DS-96256NI-E16/H1620140317CCRR456079191WCVLU	Risky	

Online Device (13) | Refresh Every 60s

+ Add to Client | + Add All | Modify Netinfo | Reset Password | Activate | Filter

IP	Device Type	Firmware Version	Security	Server Port	Start Time	Ac
172.28.1.125	DS-96256NI-E16/H	V3.0.2build 140925	Active	8000	2015-10-21 09:52:41	Ye
172.28.1.18	CS-C2mini-31WFR	V5.1.4build 150806	Active	8000	2015-11-12 05:35:52	Nc

Encoding device/Outdoor Device:
DVR/DVS/NVR/IPC/IPD/IVMS-4200
PCNVR/IVMS-4200 EncodeCard
server//Outdoor Device/Door Station
for Villa/Door Station for Apartment

❖ 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

❖ Five adding modes

Add

Adding Mode:

IP/Domain IP Segment IP Server HiDDNS Batch Import

Add Offline Device

Nickname:

Address:

Port:

User Name:

Password:

Export to Group

Set the device name as the group name and add all the channels connected to the device to the group.

Add Cancel

- 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.

❖ Remote configuration

❖ QR code generating

Device for Management (85)				
+ Add Device Modify Delete Remote Configuration QR Code Activate Refresh All				
Nickname	IP	Device Serial No.	Security	Net Status
iDS6124	172.28.1.201	iDS-2CD6124FWD-I/H20140620CCWR459301677	Risky	

Remote Configuration

Displaying the Device Information

Basic Information

Device Type:

Channel Number:

IP Channel Number:

HDD Number:

Alarm Input Number:

Alarm Output Number:

Device Serial No.:

Version Information

Firmware Version: V5.1.7 build 140527

Encoding Version: V5.7 build 140521

Panel Version: V0

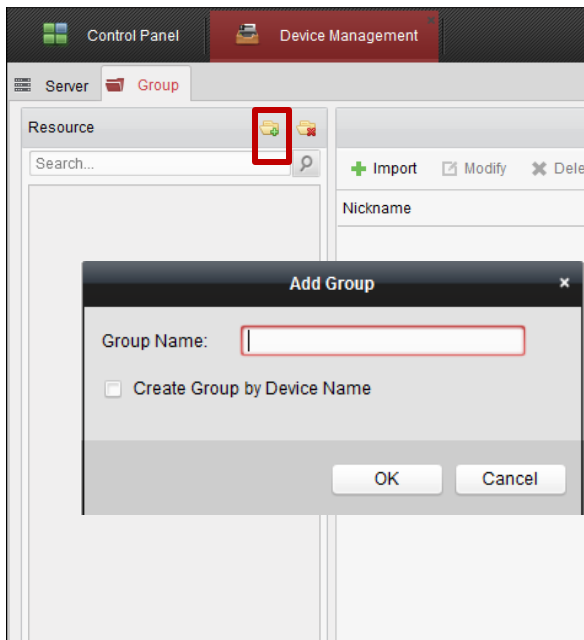
❖ Get the configuration information of the device.

❖ 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

Server Group

Resource

Encoding Channel Resources of Group 96256(3)

Search...

+ Import **Modify** - Delete Remote Configuration

96256

Encoding Channel

Alarm Input

+ 6412people counting

+ NVR9664

03-03-2016 Thu 11:26:18

Camera 01

Name: Camera1_i6024

Video Stream: Main Stream

Protocol Type: TCP

Stream Media Server

sms

SMS Management


Copy Parameters: Copy to...

Get New Picture: Refresh

OK Cancel

8.1.125

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

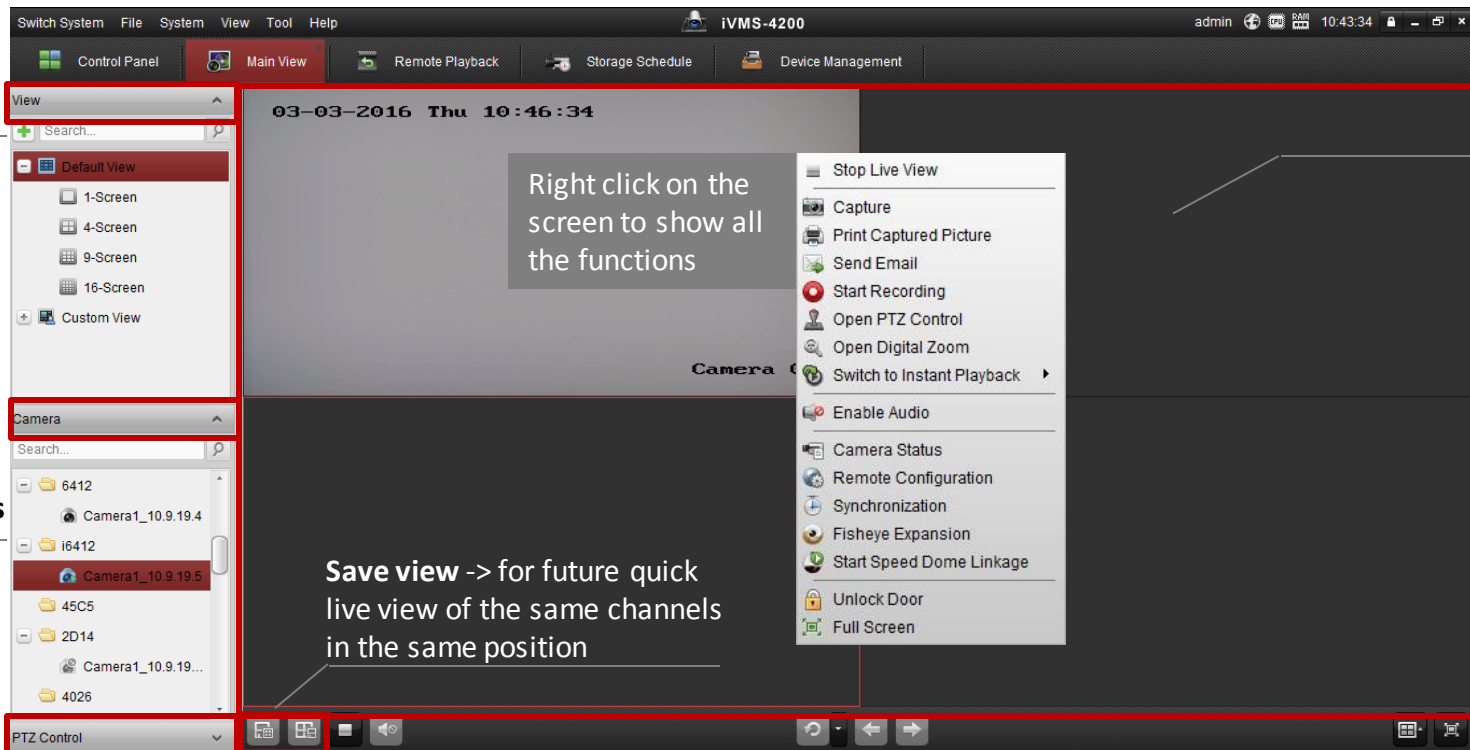
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 - **Playback**
 - **Others**

View modes

Click here for quick access of the previous saved views

All the groups

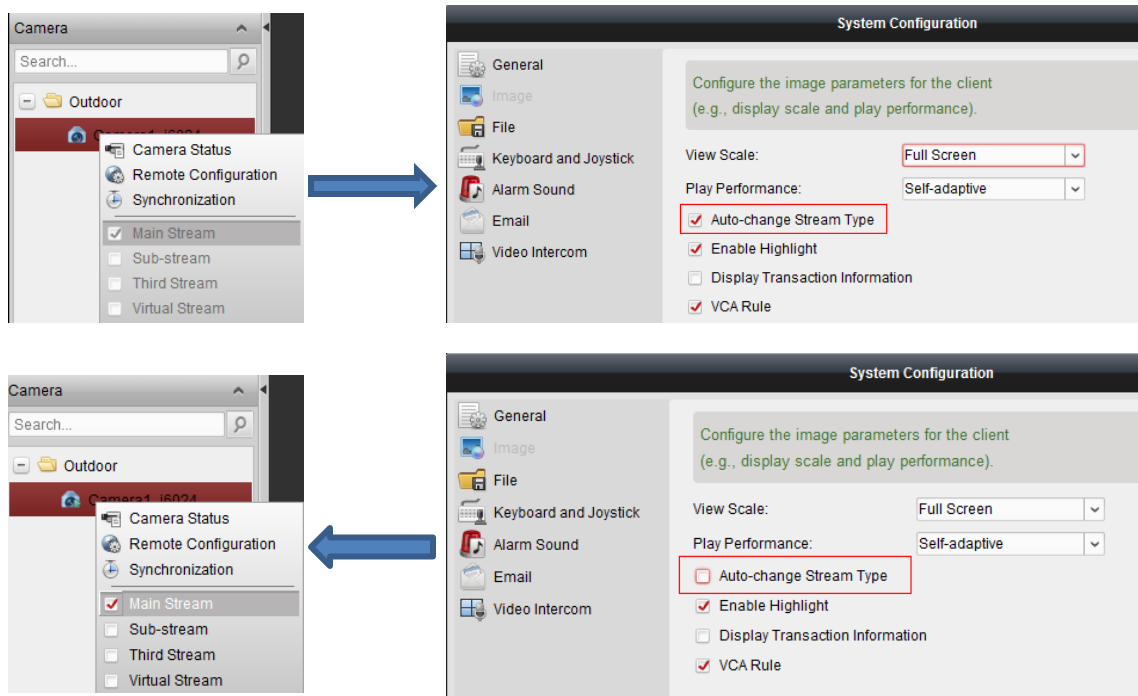
Click to open the PTZ control



Live view

Up to **64** window division

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

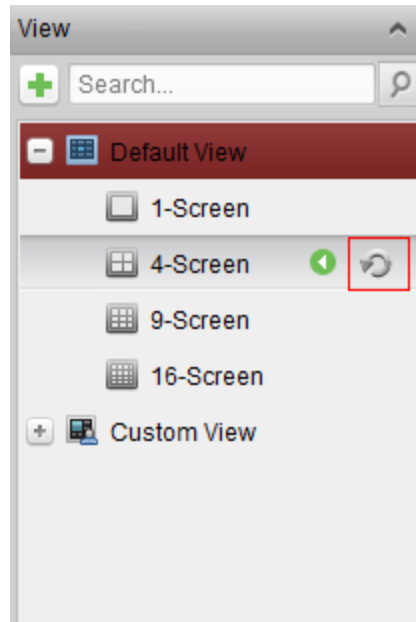
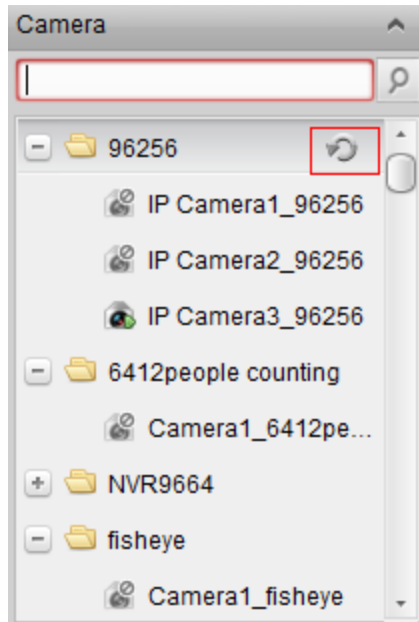


Auto-change stream type:
1&4 window division – main stream;
9 and above - sub stream

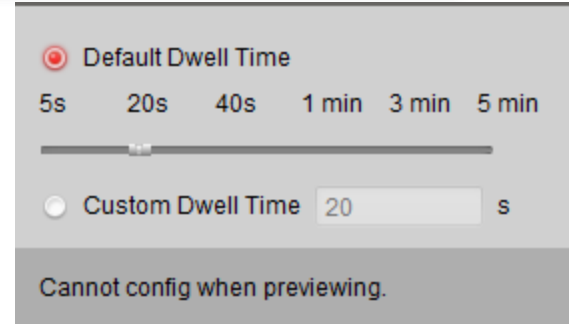
Virtual Stream:
transcoded stream from NVR


❖ 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

Control Panel Remote Playback Storage Schedule Event Management Device Management

Camera

Search...

mixadance
+ 10.18.0.13
+ ipv6_4
+ Thermal4035D-25
- fisheye_BV
 Camera1_fisheye_BV
- IDS6124
 Camera1_IDS6124
+ cafer
+ 8223_Training
 fisheye_Training
+ madelec
 weixin5
+ fisheye_training
+ 4A25
+ 4624
+ 7608NI-I2
+ 7732NI-I4
+ 4826FWD-INZ
+ DE speed dome

Storage Schedule

Copy to... Save

Storage of Encoding Se...

Record Schedule: Event Template Edit Advanced Settings

Capture Schedule: Template 01 Edit Advanced Settings

Storage Server

Storage Server: Storage Server Management

Storage Content:

Record Schedule Template 01 Edit Advanced Settings

Picture Storage Storing the alarm pictures of the camera

Additional Information Storage

Storage Quota:


Record Quota:0% Set Quota

Picture Quota Ratio:0%

Additional Information Quota:0%

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



The screenshot displays the HIKVISION remote playback interface. It features a multi-view layout with several windows. The top-left window shows a calendar for November 2015, with a date range from 00:00:00 to 23:59:59 on 2015-11-13. The top-right window shows a video list for 2015-11-13, listing two video segments: 2015-11-13 11:11:58 and 2015-11-13 11:46:35. The main area contains four video windows (Window01, Window02, Window03, Window04) showing a live or recorded video feed of an indoor scene. The bottom section contains playback controls, including a timeline from 00:00 to 22:00, a play/pause button, and a volume control. A red bar on the timeline indicates the current playback position at 2015/11/13 11:11:59. A 'Video Tampering Detection' warning icon is visible in the bottom-left corner.

Video hint

Filter the video.

Video list

You can select different date to see the video.

Reverse play

Single frame

Fast Forward (max. 8X)

Event playback

ATM playback

VCA playback

Window division (max. 16)

Asynchronous playback & Synchronous playback

Tag

Download

The icon means that there is video on that day

2015/11/13 11:11:59

00:00 02:00 04:00 06:00 08:00 10:00 12:00 14:00 16:00 18:00 20:00 22:00

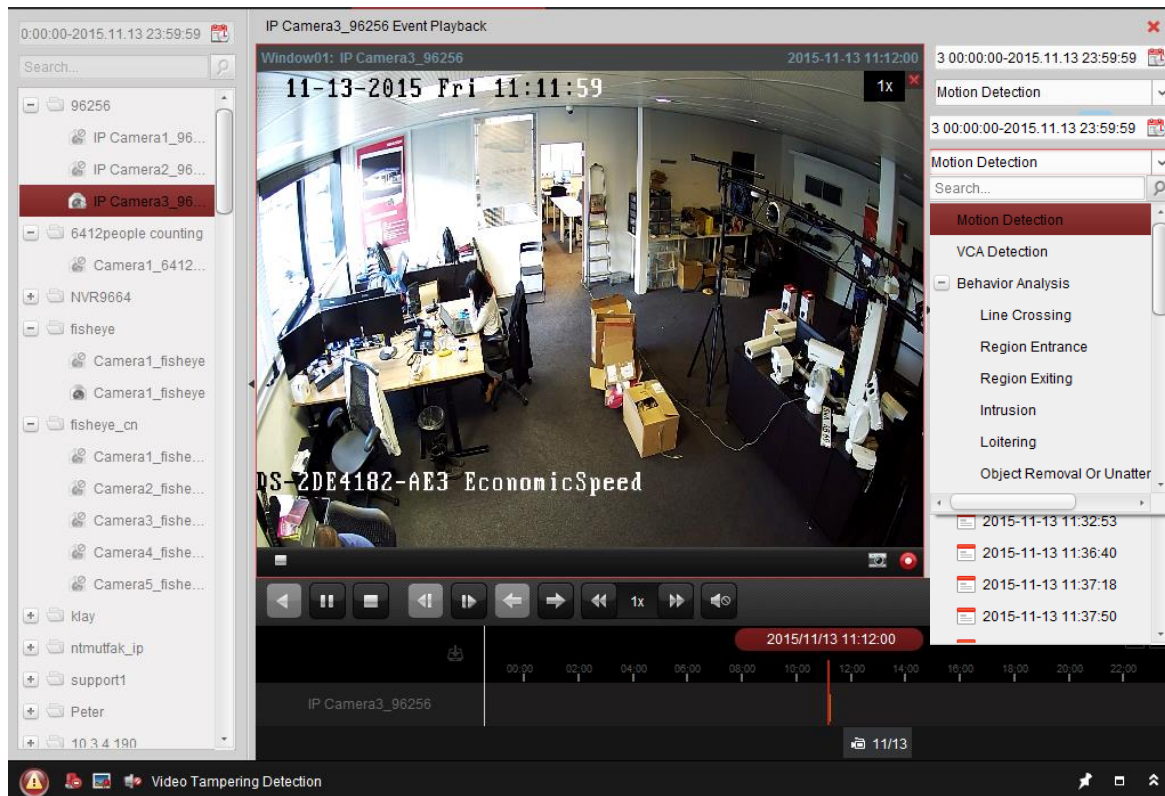
IP Camera3_96256

11/13

Detailed description: The image shows a software interface for remote playback. At the top is a dark toolbar with various control buttons. Below the toolbar is a timeline for the date 2015/11/13, with a red bar indicating the current playback position at 11:11:59. A blue bar below the timeline shows video segments. A callout box points to a camera icon on the timeline with the text 'The icon means that there is video on that day'. Other callouts identify specific toolbar functions like 'Reverse play', 'Single frame', 'Fast Forward', 'Event playback', 'ATM playback', 'VCA playback', 'Window division', 'Asynchronous playback & Synchronous playback', 'Tag', and 'Download'.

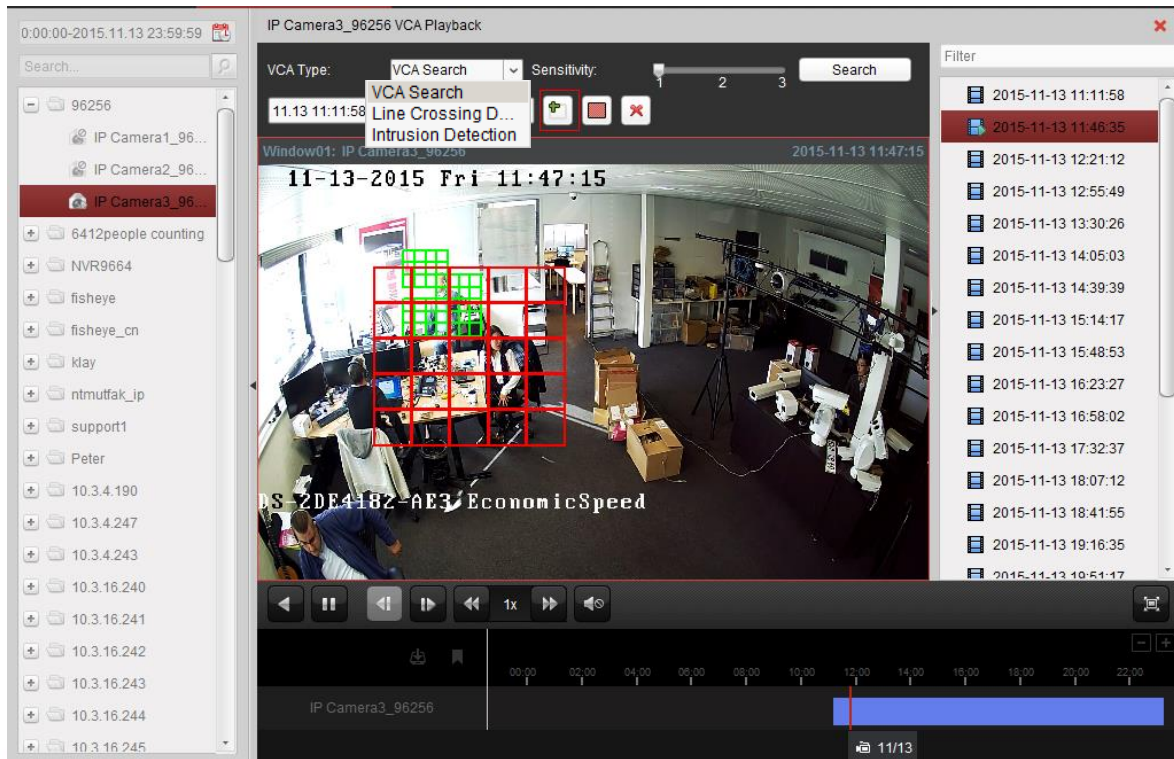
Remote Playback Event Playback

- Playback the video recordings triggered by event.



Behavior analysis:
for iDS devices

- 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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 - Others

Alarm Output Control

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

The screenshot shows the 'I/O Control' window with a table of device I/O settings. A red arrow points from the 'I/O Control' menu item in the 'Tool' menu to the 'I/O Control' window.

Index	Device I/O	IP Address	Operation
1	A->1	172.6.16.73	
2	A->2	172.6.16.73	
3	A->3	172.6.16.73	
4	A->4	172.6.16.73	
5	A->33	172.6.16.116	
6	A->34	172.6.16.116	

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.

Log Search

Client Log Lists

Export Picture Log Filter Backup Log

Client Logs
 Server Logs

Start Time:
2015-08-06 00:00:00

End Time:
2015-08-06 23:59:59

Search

Operation Time	User Name	Log Type	Description Inf...	Device Name	Device Type	Group Name
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Client Log Lists

Export Picture Log Filter Backup Log

Filter by Keyword: Filter

Filter by Condition:

Log Type: All

Description Information: Line Crossing Detection Alarm

Filter

Clear Filter

More...

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

- **iVMS-4200**
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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

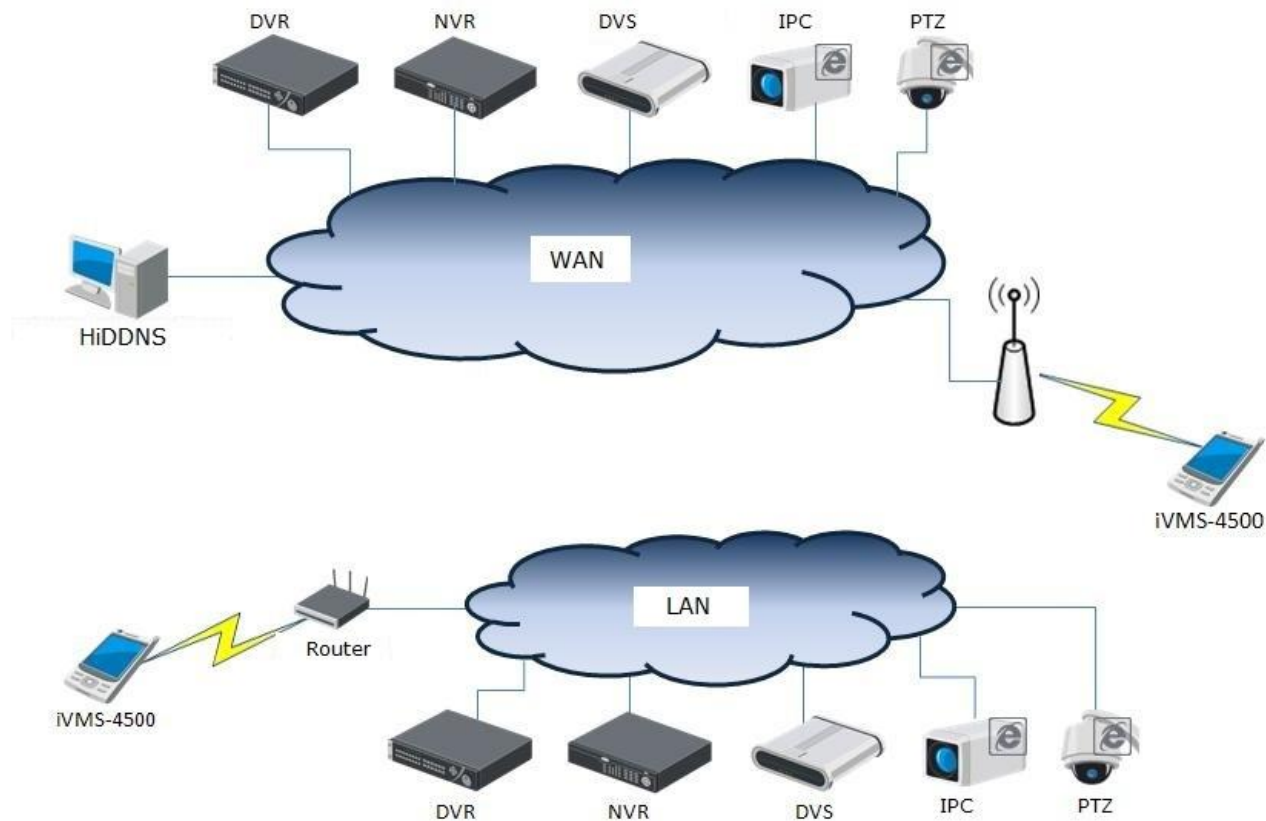
Supported Mobile Operation System

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



Application

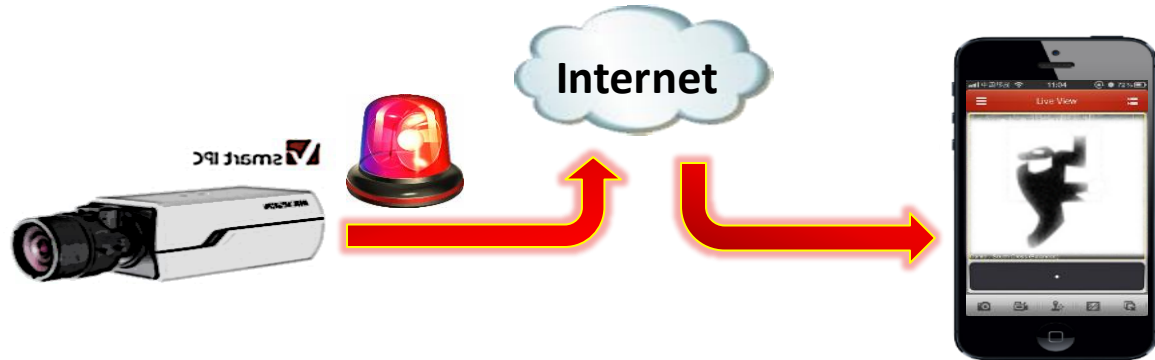
HIKVISION



First Choice for Security Professionals

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.



Alarm Push Notification



Household Break-in
Motion Detection



Trigger Alarm Push > React

Real-time Alarm Push Notification

DVR/NVR Configuration

HIKVISION

Motion Detection

Camera: Analog 1

Enable Motion Detection:



Settings

Sensitivity: [Slider]

Full Screen

Clear

Settings

Trigger Channel Arming Schedule Linkage Action

- Full Screen Monitoring
- Audible Warning
- Notify Surveillance Center
- Send Email
- Trigger Alarm Output

Real-time Alarm Push Notification

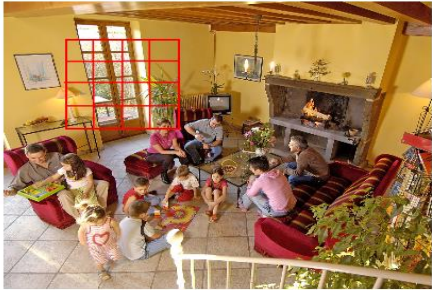
Network Camera Configuration

HIKVISION

Motion Detection | Video Tampering | Alarm Input | Alarm Output | Exception | Face Detection | Audio Exception Detection
Intrusion Detection | Defocus Detection | Scene Change Detection

Enable Motion Detection Enable Dynamic Analysis for Motion

Configuration: Normal



Draw Area Clear All Sensitivity 40

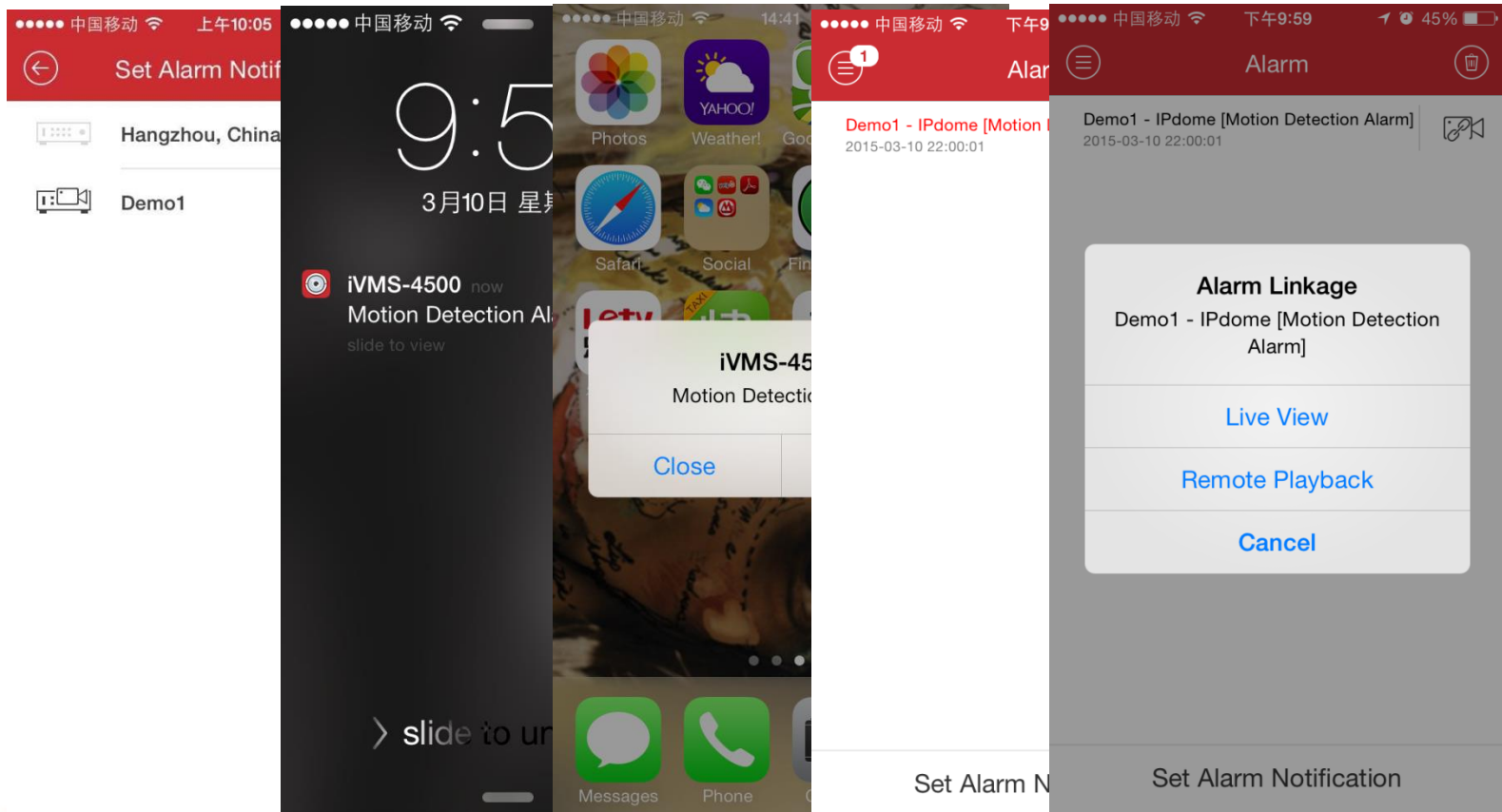
Linkage Method

Normal Linkage	Other Linkage
<input checked="" type="checkbox"/> Audible Warning	Trigger Alarm Output <input type="checkbox"/> Select All
<input checked="" type="checkbox"/> Notify Surveillance Center	
<input checked="" type="checkbox"/> Send Email	
<input checked="" type="checkbox"/> Upload to FTP	
<input type="checkbox"/> Trigger Channel	

Real-time Alarm Push Notification

iVMS-4500 Configuration

HIKVISION



First Choice for Security Professionals

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