ZKiVision Client Software User Manual

Document version: 2.2

Software version: 3.1.7.654

Date: 2012.10

Overview

This document describes the installation, functions, user interface and operations of ZKiVision Client Software.

General Instructions

Thank you for choosing our video surveillance product. Please read this manual carefully before using this product.

All functions of the product in this manual are for reference only. The actual product may differ from what is described in this manual due to updates from time to time. We disclaim liability for any dispute rising out of the unconformity between technical parameters and descriptions in this manual. We reserve the right to make any changes or amendments without prior notice.

For more details, visit our website www.zkivision.com or your local service outlets.

Table of Contents

1 Overview

1.1 Function

ZKiVision Client Software is a piece of network video surveillance software provided by ZK Technology free of charge. It supports multiple functions such as monitoring, videotaping, and alarm linkage of multiple IP cameras over the LAN and Internet.

As the video surveillance device is complex, it is strongly recommended to read the corresponding user manual before the first use of this software and confirm the device can be visited by browser on the LAN and Internet. This document describes how to use ZKiVision client software for video surveillance.

1.2 Operating Environment

Operating system: Windows 2000/ Windows XP/ Windows 2003/ Windows Vista/ Windows 7 (32 bit). Windows XP is recommended.

CPU: Inter Pentium 4 or above, 2.6 GHz or above is recommended.

Video adapter: Resolution of 1024*768 pixels or above. Minimal memory of 256MB, ATI(AMD) video adapter with 1G memory or above is recommended.

Memory: Minimal capacity of 1GB. 2G or above is recommended.

Hard disk: Minimum free capacity of 80GB (depending on the number of devices and video configuration).

As a better computer can bring better effect of surveillance, it is recommended to use a better computer for video surveillance.

1.3 Procedure for Use of ZKiVision

Before using, proceed as follows:

Perform planning and installation of all IP cameras used for surveillance.

Change the IP addresses and ports of the IP cameras through the search software on the CD.

Access the IP camera from the browser and set the user name, password, alarm trigger mode (external alarm or motion detection), and system time for these IP cameras.

If you intend to access these IP cameras over the Internet, set dynamic domain names for them and perform port mapping on the corresponding routers.

The following takes the superuser as an example to describe the use of the software. The operation procedures vary with users of different operation authorities. Users only need to operate the items displayed on the operation interface by following the procedure below.

Run this client software.

Log in to the system as a superuser ("Admin" and its default password "123456") and change the default password.

Search and add devices to the system.

Modify device parameters (including device information and network parameters).

Set code stream.

Set arming (alarm linkage settings and storage management).

Preview the image.

Set users (assign authorities).

1.4 Conventions

To simplify the description in this manual, the following conventions are made:

Network video surveillance software is called software/system for short.

Click indicates left click of mouse button.

Double click indicates double left click of mouse button.

Right click indicates click with the right button of the mouse.

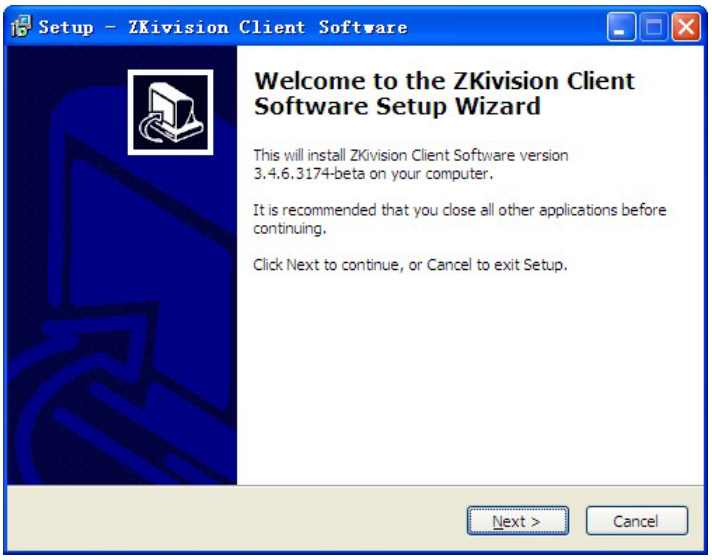
Some of the figures in this manual are for reference only.

2 Installation and Removal

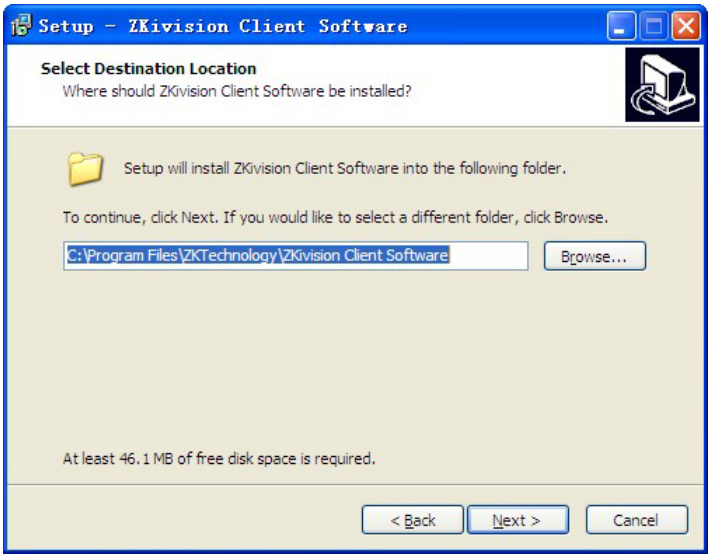
2.1 Installation

Step 1: Insert the delivery-attached CD in the CD drive. Double-click the installation package ZKiVision Client Software.exe. Choose the installation language, then click **OK** to continue.

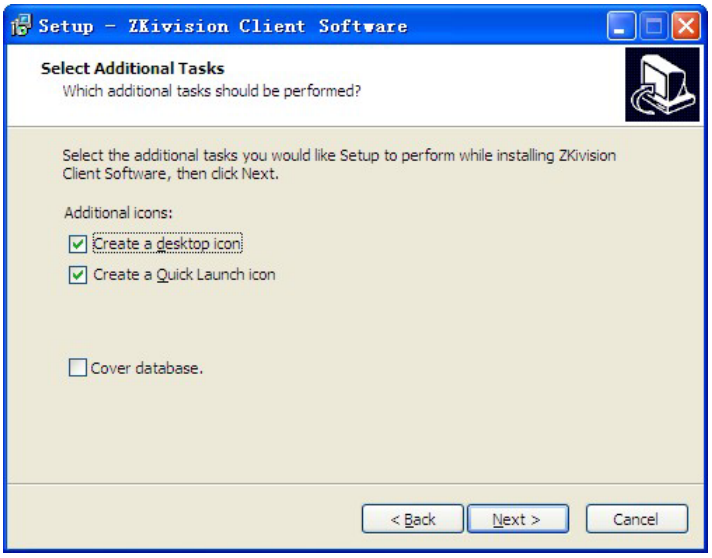
Step 2: Click **Next** when the **InstallShield Wizard** interface pops up.



Step 3: Set the installation path. The default path is **C:\Program Files\ZKTechnology\ZKiVision Client Software**. Click **Next**.

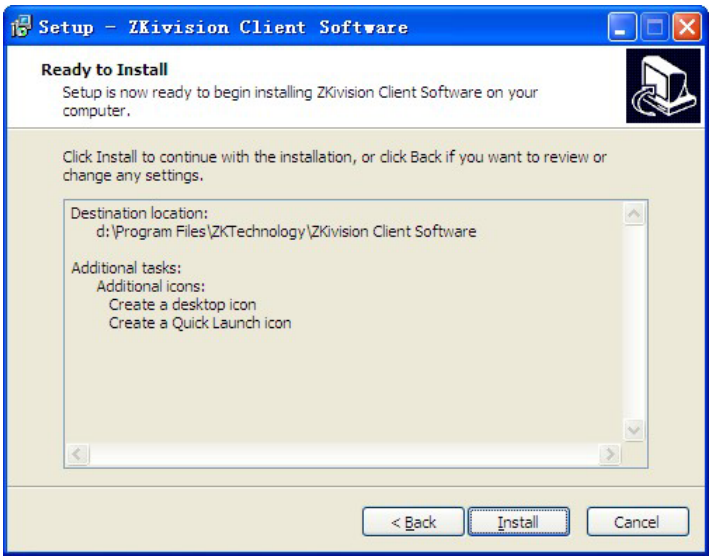


Step 4: Confirm the installation is correct and click **Next** to wait for the completion of installation. Click **Finish** to exit.

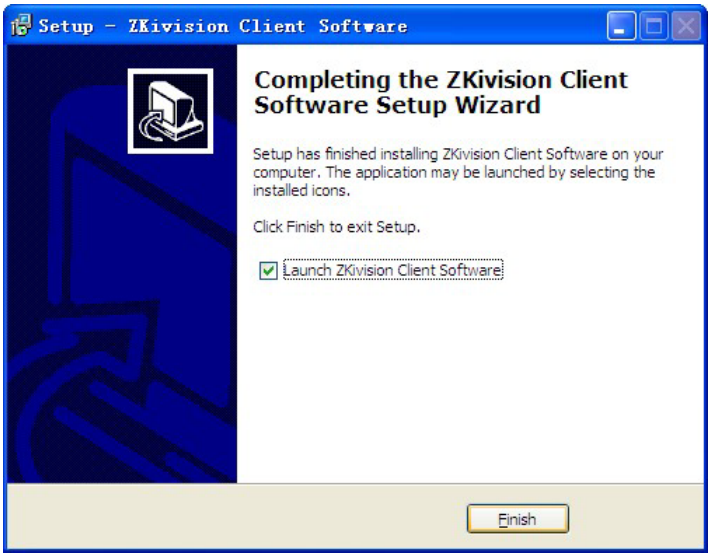


☺**Note**: If the installation folder already exists, there will be a prompt box pops up. If you want to install to the existed folder, there will be an additional selection "cover database". Select it to use new database, or use the original database.

Step 5: For reconfiguration, please click **Back**, click **Install** to begin the installation process.



Step 5: After installation is completed, click **Finish** to exit.



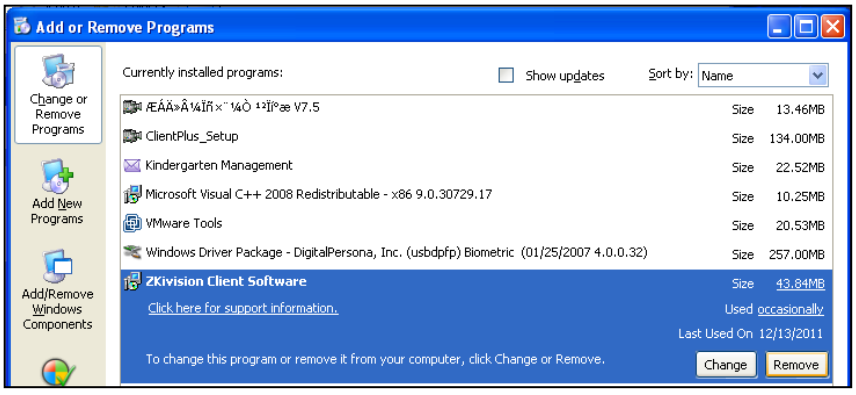
2.2 Removal

If you do not need to use anymore, you can delete it in the following two ways.

Close all the related programs before deletion.

Mode 1: Choose *Start* > *All programs* > *ZKTechnology* > *ZKiVision Client Software* > *Uninstall* to delete related documents.

Mode 2: Open the system control panel and choose ZKiVision Client Software. Click **Delete** to delete related documents.



☺**Notes:** 1. The above two modes are not available for deleting all the documents. Deleting related documents under installation directory is necessary.

2. When the software is uninstalled, the database and user's setting will be kept.

3 Quick Start Guide

By means of the following procedures, you can perform a fast setting on the client software.

1 Install the client software and the **Monitor client** icon is displayed on the desktop.

2 Double-click the **Monitor client** icon to enter the system.

3 Choose **Settings** > **Device Management** > **Search**. Click 

to display the **Search** interface.

4 Click **Search all device** to search all camera devices produced by our company on the LAN.

5 Choose camera in the search list. Change the remote device information (such as IP address and device port) on this interface.

6 In the search list, select one or more cameras or tick off **Select All** to select all cameras.

7 Click **OK** to finish adding cameras to the system.

8 Choose camera channel in the device list on the **Search** interface to modify the local device information (device names and user names). Partition the device.

9 Enter **Preview** interface. Double-click the camera channel in the device list or drag the channel into the preview cell to connect the device. Then the video can be previewed.

10 Choose **Video** from the shortcut menu or click  to start the videotaping.

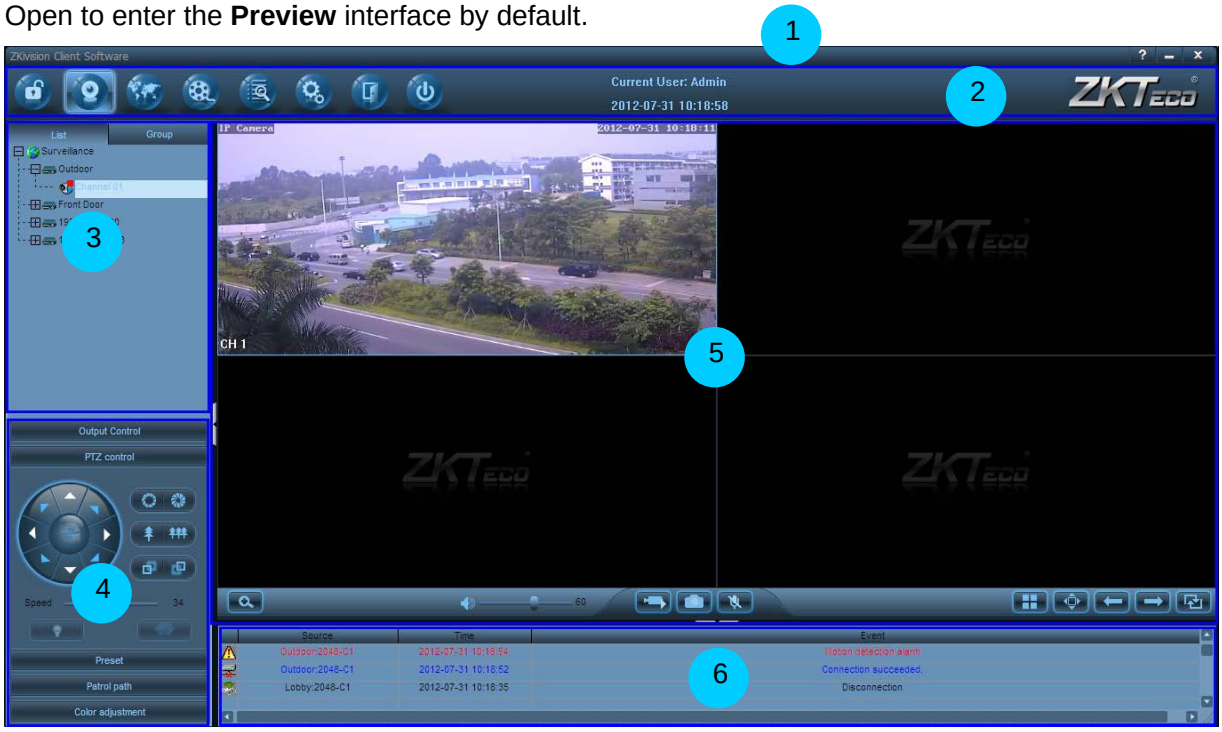
11 For more information of other functions such as user configuration, video playback, and alarm linkage configuration, see 5 Configuration.

4 User Interface

The user interface of ZKiVision is easy to operate. It is divided into the following 8 working areas, which switch over in tag page: **Lock user, Preview, E-map, Playback, Event Search, Setting, Access Management and Exit**.

4.1 Preview

Open to enter the **Preview** interface by default.



The description of software interface is shown in the following table:

Area	Description	Area	Description
1	Button bar	4	Control panel
2	Tab bar	5	Preview window
3	Device list/Group list	6	Event list

When the device is added to the system, it will automatically display in the device tree on the preview page. After the parameter setting is completed, you can operate video monitoring, camera preset and color conditioning on the preview page.

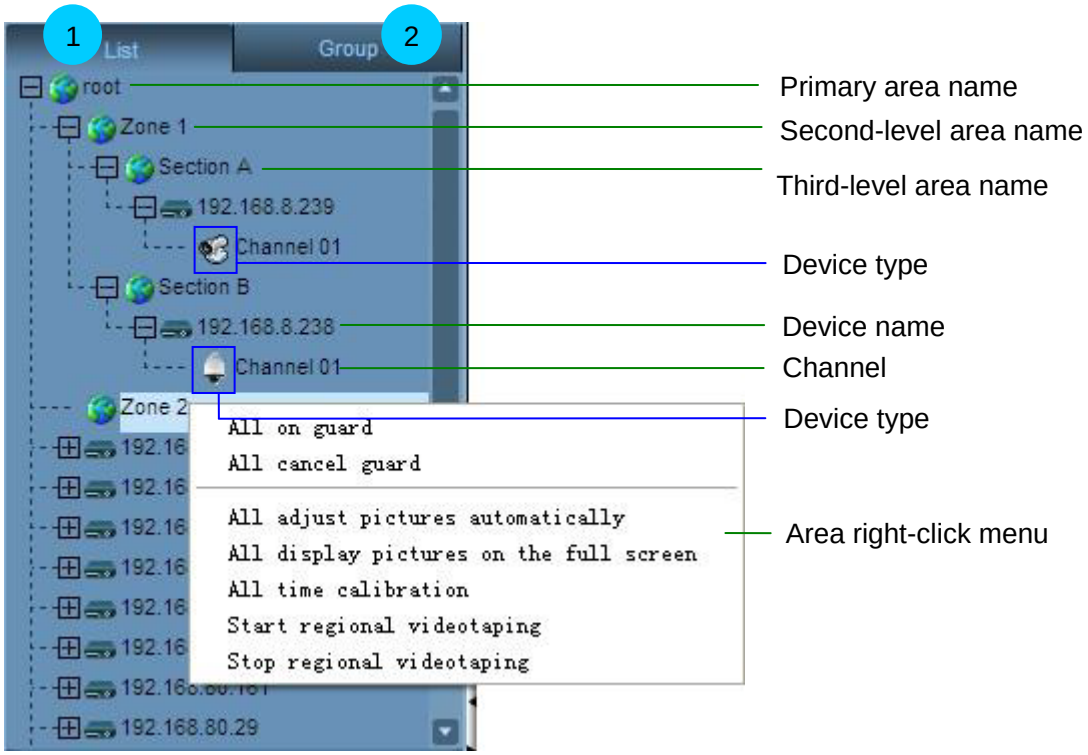
4.1.1 System Button Bar

Icon	Name	Function description
	Version name	
	**Help** button	Click  to display user manual.
	**Minimize** button	Click  to minimize the window to the system tray.
	**Exit** button	Click  to pop up the exit prompt.

4.1.2 Tab Bar

Icon	Name	Function description
	Lock/Unlock	It is used for locking, unlocking, current operator modification, or password modification.
	Preview	Click  to display the **Preview** interface. It is used for camera and video surveillance, control, and management.
	E-map	Click  to enter the **E-map** interface and you can watch live pictures of a passage while viewing its location. The e-map also supports viewing multi-passages and pan tilt zoom of live pictures.
	Playback	Click  to display the **Playback** interface. It is used for video search and playback.
	Event Search	Click  to display the **Event Search** interface. You can set different conditions for querying common events, access controller events and system events.
	Setting	Click  to display the **Setting** interface. It is used for device management, audio video settings, and alarm linkage settings.
	Access Management	Click  to display the **Access Management** interface. You can add access controller to the system and associate the camera with the access controller.
	Exit	Click  to exit the interface.
	User profile	It is used for displaying the current user name and current date and time on the system.
	Logo	ZKTeco Logo

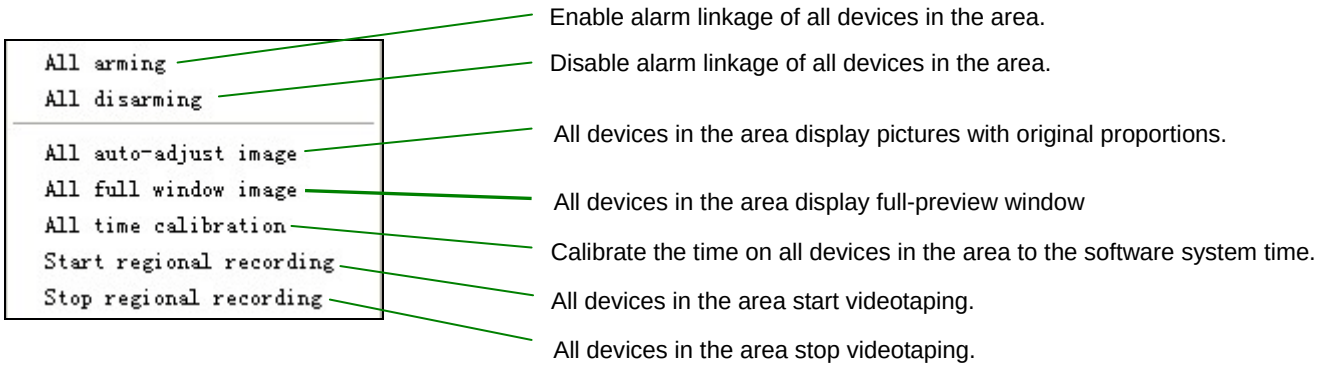
4.1.3 Device List/Group List



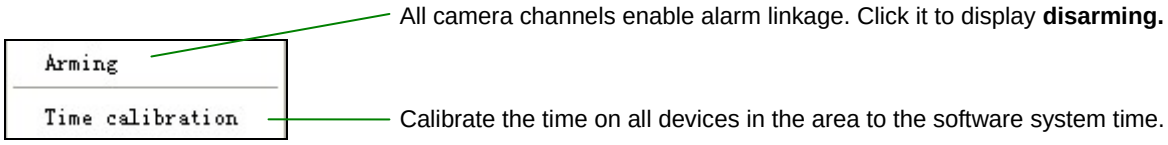
Icon	Name	Function description
List	List mode	Display area, device, and channel according to the list hierarchy of user configuration.
Group	Group mode	Display group and channel according to the group hierarchy of user configuration.
	Area/Group	Area: Divide cameras into different areas according to their different locations to facilitate centralized monitoring against different areas for users. Group: Divide cameras into different groups according to their different monitoring types to facilitate centralized monitoring against different monitoring types for users.
	Device	IP cameras and network video recorders.
	Device guard setting	Enable alarm linkage when the device guard setting begins.
/	Device type	Gun type/Dome camera
(Blue triangle)		The camera channel is connected.

(Red square)		There is an alarm message from the camera.
(Green square)		The camera is performing scheduled videotaping.
(Red circle)		The camera is performing alarm videotaping.

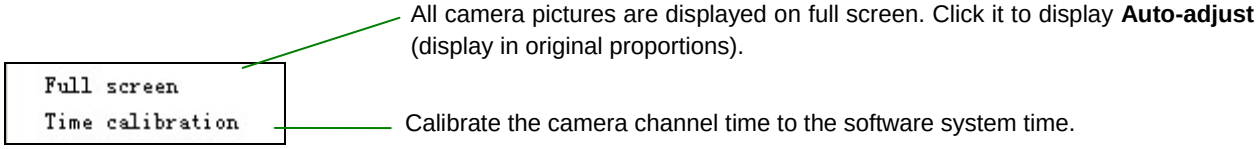
Right-click the area name to pop up the following function menu:



Right-click the device name to pop up the following function menu:



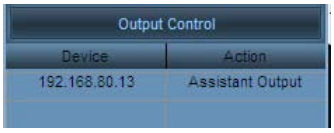
Right-click the channel to pop up the following function menu:



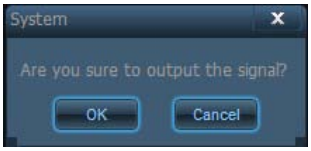
☺**Note:** For related devices added, device name modification and partition, see Search for and Add a Camera to an Area.

4.1.4 Control Panel

- **Output Control**



Unfold the output control panel by clicking **Output Control,** select the camera channel from which the output is to be controlled. The output actions that can be controlled will display in the panel: If this camera is not associated with the access controller, only the **Assistant Output** of the camera can be controlled; if it is associated with the access controller, both the **Assistant Output** of the camera and **Open the Door** by the access controller can be controlled. Double-click the action to be controlled and a confirmation box will display, as shown in the following figure:



Note: For the association of the IP camera and the access controller, see How to Set and Apply the Association of the IP Camera with the Access Controller.

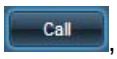
- **PTZ control panel**

Icon	Name	Function description
	Direction control	Control the rotation direction of the Pan-tilt by following the arrows (up, upper right, upper left, left, right, lower right, lower left, and down). Click  to control the automatic horizontal rotation of the Pan-tilt. Cancel this operation by another click.
	Narrow aperture	Click  to stop down if the camera lens has a power driven aperture control function.

	Widen the aperture	Click  to widen the aperture if the camera lens has a power driven aperture control function.
	The focal distance becomes smaller.	Click  to make the camera zoom in on distant pictures to implement monitoring if the camera lens has a power zoom function.
	The focal distance becomes larger.	Click  to make the camera zoom in on nearby pictures to implement monitoring if the camera lens has a power zoom function.
	Focus forward	Click  to make focus forward to obtain a clear picture if the camera lens has a power focus function.
	Focus backward	Click  to make focus backward to obtain a vague picture if the camera lens has a power focus function.
	Pan-tilt speed	Drag the slider left to slow down the pan-tilt speed or drag the slider right to accelerate the pan-tilt speed.
	Light	Click  to open the light when the external light devices are connected in a dark lighting condition. Close the light by another click.
	Windscreen wiper	Click  to enable the windscreen wiper when the cover is dirty. Disable the windscreen wiper by another click. It is recommended to adopt this function to avoid scrape on the lens when it is rainy or the cover is wet.

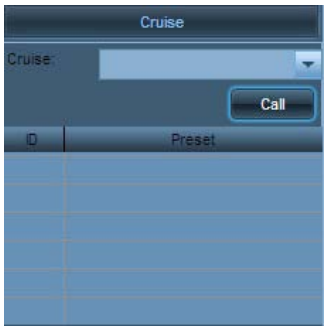
Note: The above functions are available only when they are supported by camera lens and external devices.

- **Preset Panel**

Click **Preset** bar to display the preset panel. Click  , the Pan-tilt will rotate to the preset.

Note: For the preset settings, see Configure Preset Locations and Cruise Routes.

- **Cruise Panel**

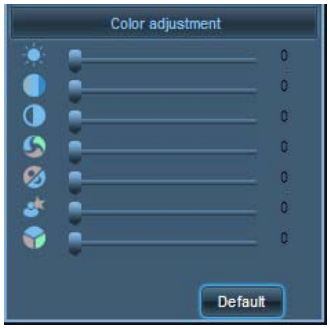


Click **Cruise** bar to display the cruise panel. Select the required camera channel. In the cruise drop-down list, select a cruise. Click 

, the Pan-tilt will rotate along the cruise.

Note: For the preset settings, see Configure Preset Locations and Cruise Routes.

- **Color Adjustment Panel**

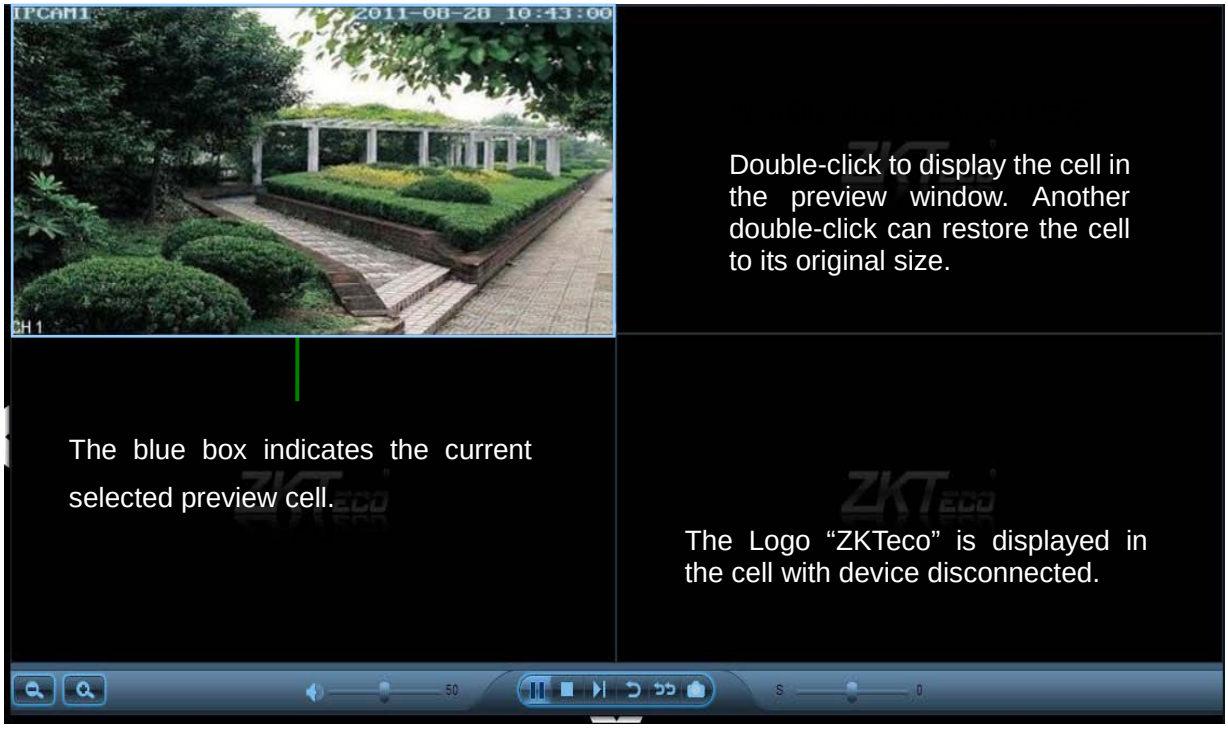


Icon	Name	Function description
	Brightness	The picture turns brighter from a left drag to a right drag (0–255).
	Saturation	The picture turns brighter from a left drag to a right drag (0–255).
	Contrast	The picture contrast can be enhanced from a left drag to a right drag. HD camera: 0–6. SD video camera: 0–255.
	Chromaticity	The picture color turns darker from a left drag to a right drag. This function is only applicable to the SD video camera (0–255).
	Shutter	1. When a monitored object is moving fast, a greater shutter value will reduce the blurring effects. 2. Applicable only to wide dynamic devices (0~255)
	Sensitivity	1. In poor lighting conditions, the camera with a higher sensitivity will be more sensitive to light. 2. Applicable only to wide dynamic devices (0~255)
	Illumination	1. In poor lighting conditions, better video effects will be achieved by adjusting to a greater value. 2. Applicable only to wide dynamic devices (0~255)

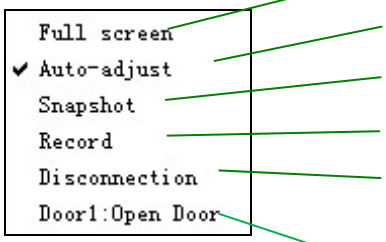
Default		Click Default to restore the brightness, saturation, contrast, shutter, and sensitivity to the default value 80, 50, 0, 1, 17 respectively for WDR HD device. Click Default to restore the picture brightness, saturation, and contrast to the default value 80, 50, and 0 respectively for HD device. Click Default to restore the picture brightness, saturation, contrast, and chromaticity to the default value 120, 150, 140, and 255 respectively for SD device.

4.1.5 Preview Window

In the device list, double-click channel 01 or drag the channel 01 into the cell when a device is need to be connected.



Right-click the cell to pop up the following function menu:



Full screen display of the **Preview** window.

Automatically adjust the picture to its original size.

Snapshoot the current picture.

Videotape the current picture.

Disconnect the device. Click the camera channel or drag the channel to the picture to reconnect the device and display pictures.

Opening the door is the output action of the access controller associated with this IP device.

Icon	Name	Function description
	Electronic magnification	Click  to magnify the selected area by dragging the mouse in the preview window.
	Sound on/off	Click  to open the audio and click  to close the audio after a channel or a picture is selected.
	Videotape/ Videotaping	After a channel or a picture is selected, click  to start videotaping on the current channel. Click  in the lower right corner of the selected picture to stop videotaping. The created video file is H.264 format file. The initial default storage path is **D:\MediaRecord**.
	Snapshot	Click **Snapshot** to automatically snapshoot the current picture. The default storage path is **C:\Picture** after a channel or a picture is selected.
	Enable intercom/Disable intercom	Click  to enable the intercom. Click  to close it. The sound of only one camera channel can be turned on sometimes. Turn off the sound of the last camera before turning on the sound of the next camera.
	Choose a picture	You can select split screen preview mode. ZKiVision supports one full screen, and 4, 6, 8, 9 and 16 split screens. The default mode is 4 split screens.
	Full screen	Click  to display the picture in full screen. Exit by another click. When the picture is displayed in full screen, move the cursor to the lowest part of the screen will display the toolbar.
	Last group	Click  to jump to the last page when the window channels are more than the screen split numbers in the list mode. Click  to jump to the last group of windows in the group mode.
	Next group	Click  to jump to the next page when the window channels are more than the screen split numbers in the list mode. Click  to jump to the next group of windows in the group mode.
	Group polling	Click  to start group polling display against the user configuration in the group mode. Exit by another click.
	Expand/Fold	Click to fold the preview window. Click  to expand the preview window.

For example: There are 3 groups (group 1-[1], group 2-[6], and group 3-[16]) in the current configuration. The cycling time is set to 5s. Select 6-split-cell display. 16 camera channels are connected in total.

List mode: The first page of preview window displays CH1–CH6 cells. Click  to switch to the second page on which displays CH7–CH12 cells.

Group mode: Click  to display one full screen, to display 6-spit-cell picture after 5s, and to display 16-split-cell after another 5s. The 6-split-cell display will jump to the 16-split-screen display when you click  .

- **Intelligent Code Stream Selection to Implement Optimized Play (Automatic Handover Between Standard Definition and High Definition)**

ZKiVision Client Software automatically determines the optimal number of channels according to the hardware configuration of your computer. Moreover, it adopts the dual-stream mode and can select the code stream intelligently according to the number of spilt images to achieve the best image quality.

When the preview window adopts one full screen mode and the main stream is adopted in both viewing and background video playing, capture the main stream picture.

When the preview window adopts split-cell mode, the secondary stream is adopted in viewing, and the main stream is adopted in background video playing, capture the main stream picture.

For example: The current picture adopts 16-split-cell display mode. The system automatically adopts the secondary stream play during viewing. If you want to view one of the cells on the screen, double-click the cell to implement full screen preview display, then the system will automatically switch to play main stream.

Advantages: Electric energy and CPU resources are saved during video watching. A user can watch more IP devices with one PC. Videotaping and image capture on background are still in high-definition effect.

Note: 1. If you need to set the video storage disk, choose **Settings** > **Local settings** > **Storage management**.

2. If you need to modify the format or storage location of the capturing pictures, choose **Settings** > **Local settings** > **System settings**.

3. Dividing cameras into different groups is a prerequisite to group switching, see Group Cameras for details.

4. If you need to modify the group polling time, choose **Settings** > **Local settings** > **System settings**.

4.1.6 Event Panel

Event information are color coded:

• **Red** — Alarm event

• **Blue** — General event

• **Black** — Already browsed information

Source The names of cameras that the message comes from

Time The time at which events occur

Event Brief description of event type

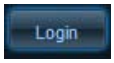
Icon	Description
	Connection succeeded/failed
	Motion alarm occurred/stopped
	Rotation started/ended

4.2 Login/Logout

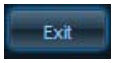
On this page, you can switch over from user to user and modify user password.

User Select the user name for login system.

Password Type in the user password.



Click **Login** to log in to the system after selecting the user name and typing in password.



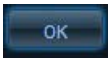
Click **Exit** to exit the **Login** interface.

Click **Modify P.W.** after selecting an existing user name to modify the password.

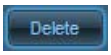
Old password Type in the old password.

New password Type in the new password.

Confirm password Type in the new password again.



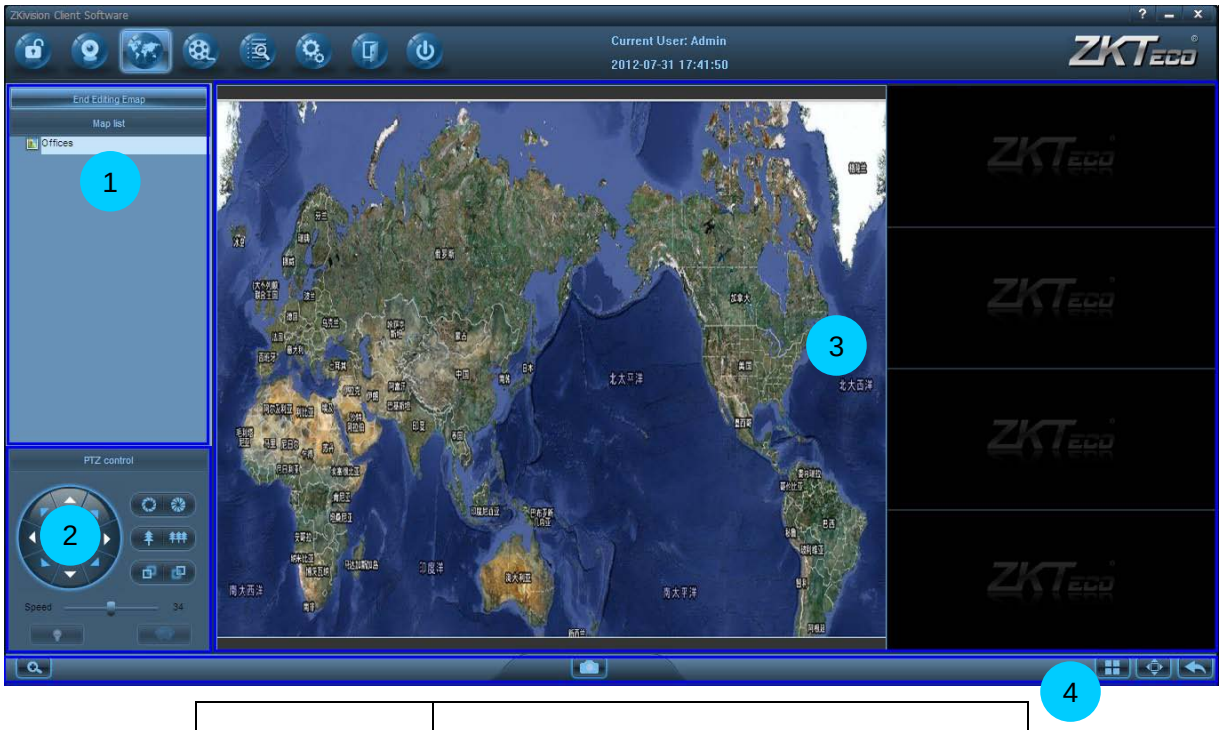
Click **OK** to submit the new password.



Click **Delete** to cancel this operation.

Note: Superuser **Admin** exists in the system by default and the default password is "**123456**". This superuser cannot be deleted and his user level cannot be modified.

4.3 E-map



Region	Description	
1	Map List	
2	PTZ Control Panel	
3	E-Map Window	
	Map Display Window	Video Play Window
4	Toolbar	

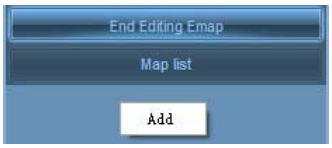
Note: Refer to How to Set E-map for e-map settings.

4.3.1 Map List

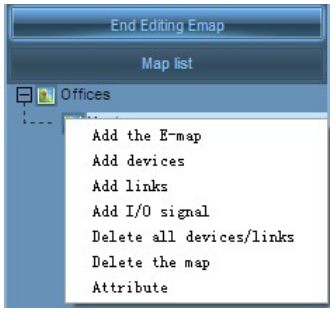
Access the map editing interface by clicking **Click and Edit Emap** and the button switches over to **End Editing Emap**.

Click **End Editing Emap** to exit emap editing and the button switches over to **Click and Edit Emap**.

In the initial state, when you right click on the blank of the map list after accessing the map editing interface, the **Add** map page will be displayed.



Right-click the name of map to pop up the following functional menu:



Edit Status

non-editing status

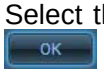
1. Add map: Click to enter the interface of adding map.

Click **Browser** to find the images in BMP in the local computer, input the map name and then click **OK** to complete the map adding.

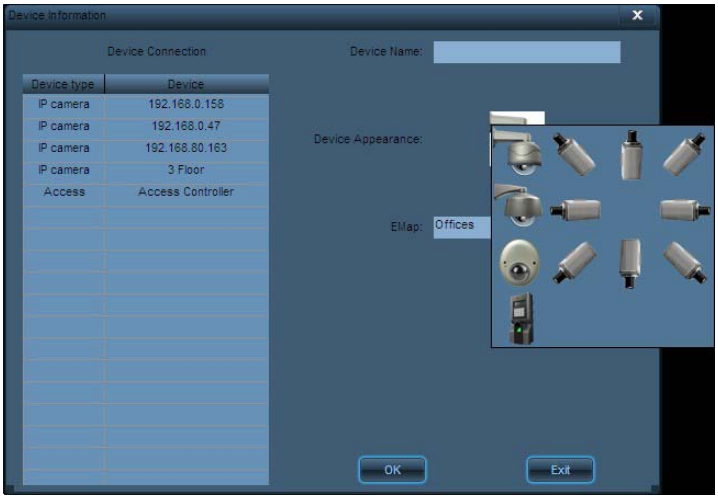
Note: It only supports the images in BMP.

2. Add device: Click to enter the interface of adding device.

You can mark the location of a device on the map by adding the device icon on the map.

Select the device to be linked, set the name and appearance of the device, etc., and then click 

to complete the adding.



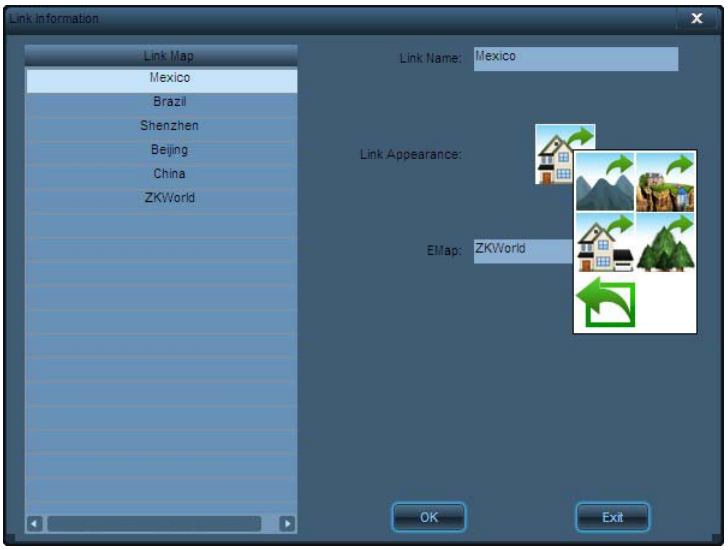
When adding device succeeds, the chosen visual icon for the device will be displayed on the map. You can drag the location of the device icon by moving the mouse cursor to the device icon, pressing and holding the left button of the mouse. Exit editing. After the device is armed, the device icon will blink when there is an alarm input signal. You can double-click the device icon or drag the icon to the video play window to play the video in real time.

3. Add link: Click to enter the interface of adding link.

By adding link icon on a map, a user can conveniently and expediently enter and check the map whenever he wants to.

Select the map to be linked, set the name and appearance of the link, etc., and then click 

to complete the adding.

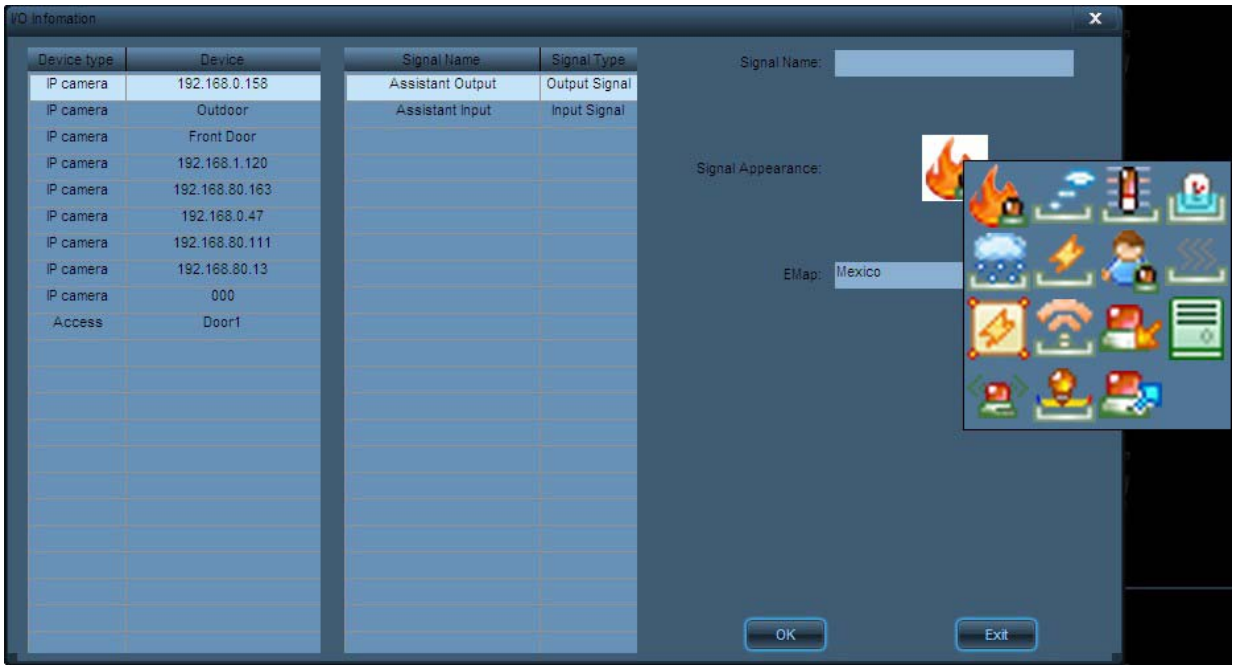


After successfully adding link, the selected icon of link appearance appears on the map. Move the cursor to the icon, and hold down the left button to move the location of link icon. After exiting the condition of editing, double-click the icon to enter the linked e-map.

4. Add I/O Signal: Click to enter the interface of adding I/O signal.

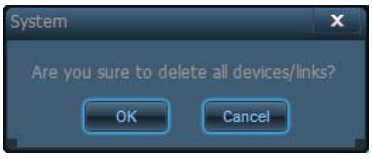
When an alarm input device is connected to the IP camera or to the access controller associated with the camera, auxiliary input will be generated and when an alarm output device or an exit switch is connected to the IP camera or to the access controller associated with the camera, auxiliary output signals will be generated. By adding input-output signal icons, you can mark on the map the locations of the devices that are connected to the IP camera or the access controller.

After selecting the devices to be connected, the signal type, setting signal name and signal appearance, click **OK** to finish the adding.

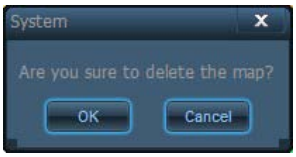


When adding signals succeeds, the chosen visual icons for the signals will be displayed on the map. You can drag the locations of the signal icons by moving the mouse cursor to the signal icons, pressing and holding the left button of the mouse. Exit editing. After the device is armed, the input signal icon will blink when an external alarm signal comes in. After confirming on site, the security guard can right click the icon to confirm the alarm. Then the icon will stop blinking. The guard also can double-click the output signal icon to control the output.

5. Delete all devices/links: Click to delete all device icons and map icons linked on the map.



6. Delete the map: Click to delete the map.

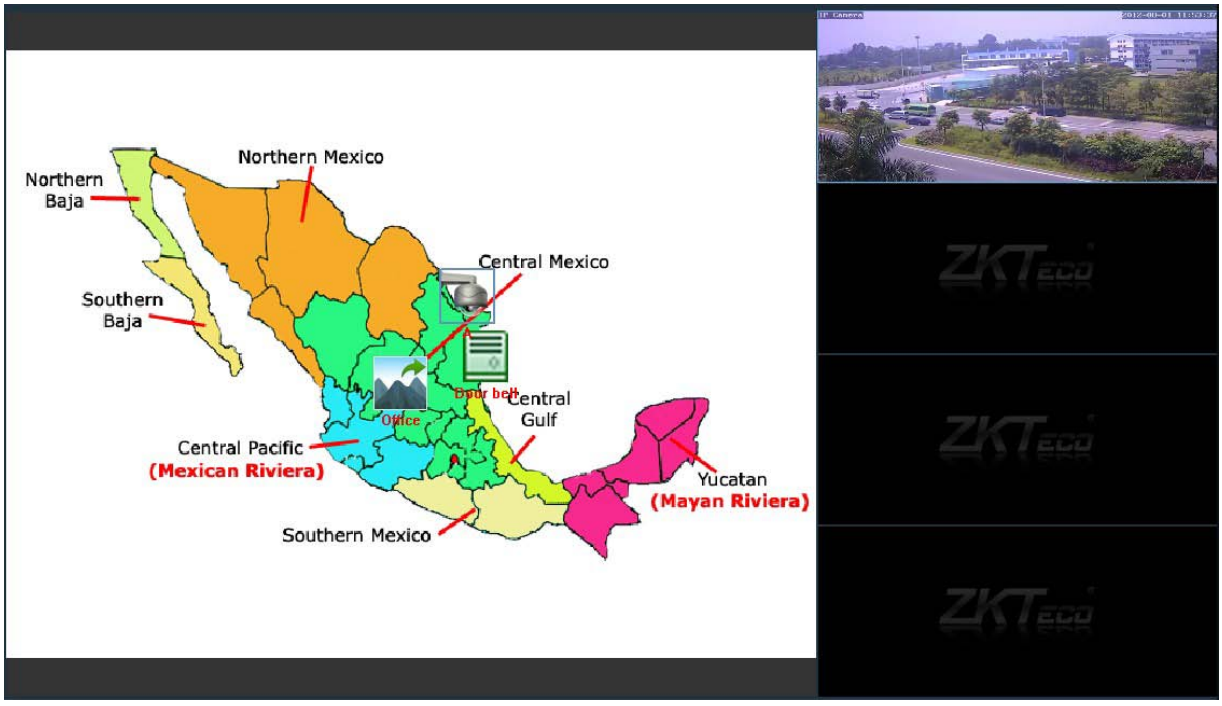


7. Attribute: Click to display the attributes of the map. The attributes cannot be edited in the no edit status.

4.3.2 PTZ Control Panel

Note: For details, see 4.1.4 Control Panel.

4.3.3 E-Map Window



4.3.3.1 Map Display Window

- In edit status, right-click a map to pop up a functional menu as shown in the above figure:

Add devices — Enter the interface of adding device
Add links — Enter the interface of adding link
Add I/O signal — Enter the interface of adding I/O signal
Delete all devices/links — Delete all icons linked to the map
Attribute — Display the attributes of the map

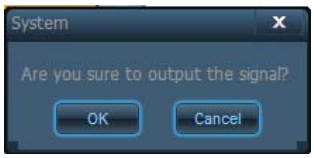
- In non-editing status, right-click the link/device icon to pop up the following functional menu:

Delete — Delete the icon
Attribute — Display the attribute of the icon

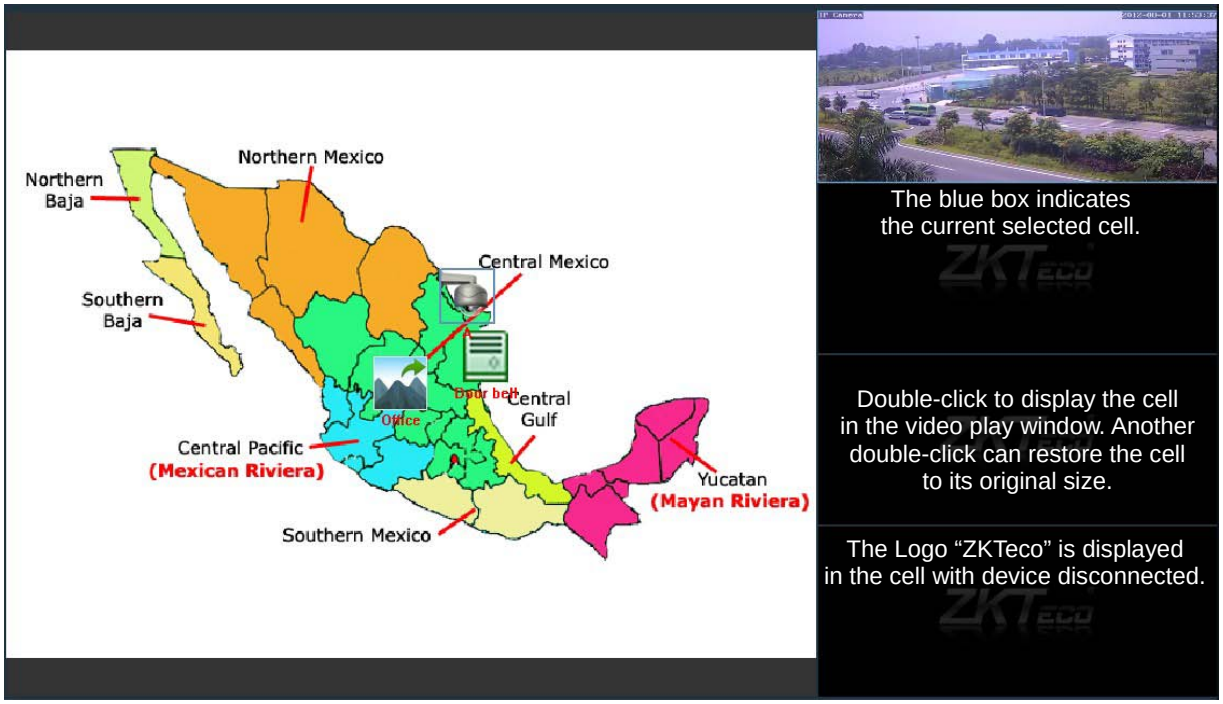
- In non-editing status, you can right click the map or the link icon to view its attribute.
- In non-editing status, when there is alarm input, the device or input signal icon will blink. When you right click, the function menu shown as follows will be displayed:

Confirm alarm — Click to confirm the alarm and the icon will stop blinking
Attribute — Display the attributes of this icon

- In non-editing status, when you double-click the output signal icon, the function menu shown as follows will be displayed:

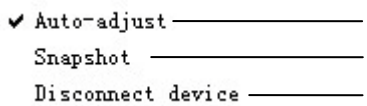


4.3.3.2 Video Play Window



You can double-click the device icon or drag the icon to the video play window to play the video in real time.

Right click on the play cell, the function menu shown as follows will be displayed:



Automatically adjust the image to its original size.

Capture the current image

Disconnect the device. Double-click the device icon or drag the icon to the cell to reconnect the device and display image.

4.3.4 Toolbar

Icon	Description	Function
	Electronic magnification	Click  to magnify the selected area by dragging the mouse in the preview window.
	Snap-shot	After choosing the cell, click this button to snap-shot the scene. The default storage path is C:\Picture.
	Select cells	1. You can choose a video play window to display the number of cells. The system supports one-, two- or four-cell display. 2. By default, the video is displayed in four cells.
	Full Screen	1. Click the button to have the map display in full screen, and click again to exit the full screen. 2. During full screen, move the cursor to the bottom of the screen to show the toolbar.
	Back	Click the button and back to the previous map.

Notes: 1. The setting of map must be performed in edit status, and the map cannot be edited in non-editing status.

2. In non-editing status, right-click the map, link, I/O signal or device to check its attributes.

4.4 Playback

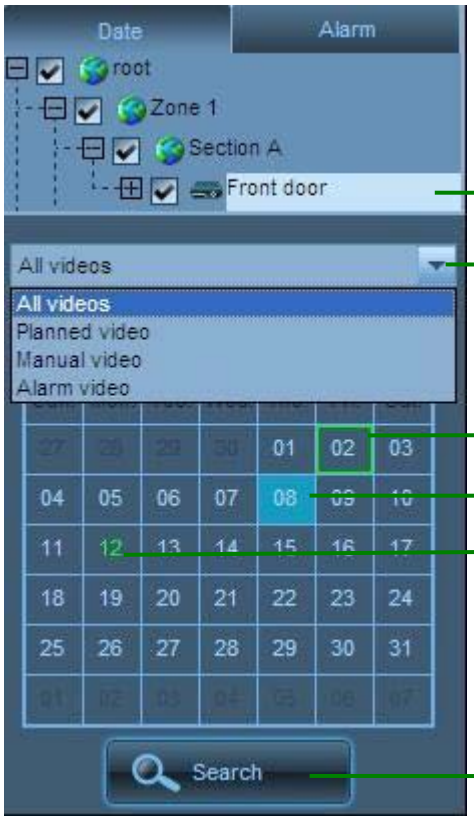
4.4.1 Search video by date

Area	Description
1	Video search panel
2	Timeline panel
3	Playback window

After setting search conditions by date on the video search panel, click **Search**, and the search result will be displayed on the timeline panel. You can play back the video by choosing the start time for playback on the timeline panel and clicking **Play** on the playback window.

Note: See Search and Playback Videos by Date for information regarding to video search by date.

4.4.1.1 Video Search Panel



1. Tick off camera channels of the video to search for (at most 4 channels).

2. Choose a videotaping type to search for: All videos, Planned videos, Manual videos or Alarm videos.

3. Click to choose the date to search videos (in green box)

Date on which videos were made in this month (on blue background) (Shown after searching)

Current date (in green characters)

4. Click **Search**

4.4.1.2 Timeline Panel

The search results are displayed on **Timeline** panel after you choose the date on which the videos were made.

Icon	Name	Function description
	Zoom out	Click  to scale down the timeline in **Timeline** panel and display the video records in a long period of time.
	Zoom in	Click  to scale up the timeline in **Timeline** panel and display the video records in a long period of time.
	Leftward	Click  to move the timeline leftward when the timeline ratio is displayed.
	Rightward	Click  to move the timeline rightward when the timeline ratio is displayed.
CH0–CH3	Channel	ZKiVision supports concurrent search and video playback in four channels.

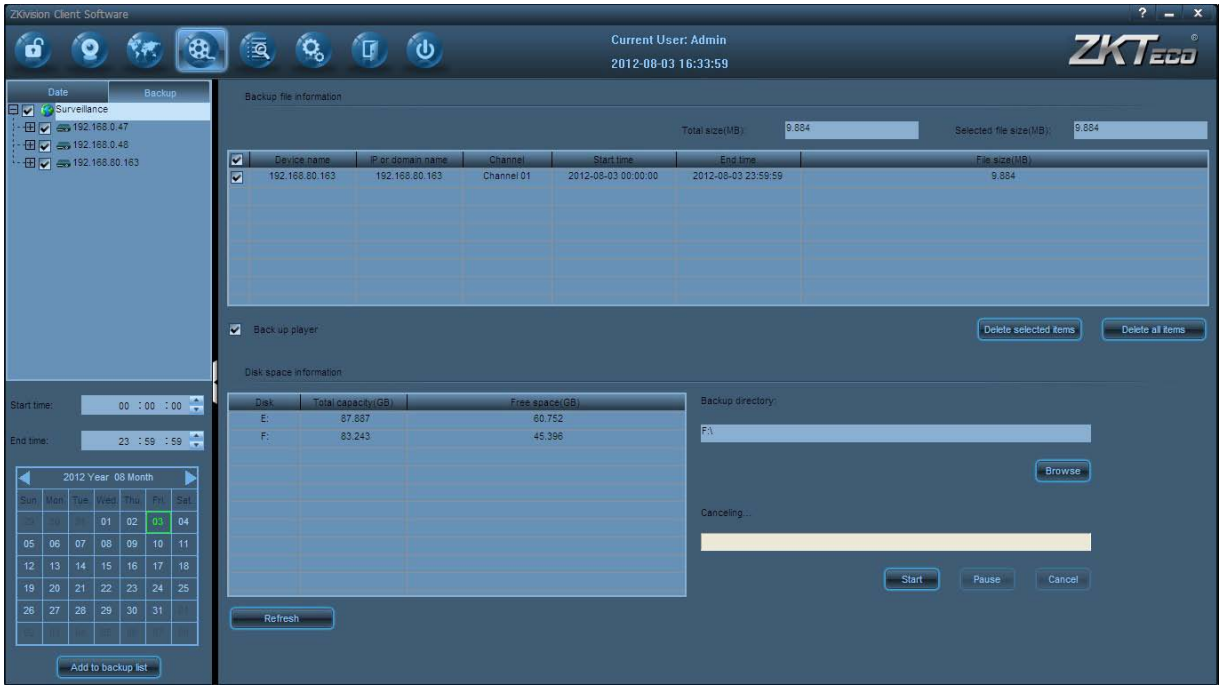
00:00–24:00	Temporal scale	Divide the time of the day into 48 equal portions, and the minimum scale is half an hour. The time point of the current position will be displayed on the **Timeline** panel when you move the mouse on the **timeline**. Click the time point to accurately position the video.
	Manual video	
	Planned video	
	Alarm video	
		The starting point of video playback.

4.4.1.3 Playback Window

Icon	Name	Function description
/	Sound on / off	After the camera is connected, click to turn the sound on, and click again to turn the sound off.
	Volume	Drag the volume slider left to turn down the volume or drag the volume slide right to turn up the volume (1–100).
/	Play/Pause	After you a camera channel is selected, click to play back the video, and click again to pause the video.
	Stop	Click to stop the video during the video playback.
	Single-frame play	Click to perform a single-frame play during the video playing. Each frame image will be displayed by every single click.
	Replay	Click to replay the video in the current channel.

	All replay	Click to replay all the videos in four channels.
	Image capture	Click to capture the image and save it to hard disks.
	Play speed	Drag the speed slider left to slow down the play speed or drag the volume slide right to accelerate the play speed (1–100). Speed adjustment range includes -2 (1/4 speed), 0 (normal speed), and 2 (2 times speed). The device uses normal speed (0) by default.
/	Expand/Fold	Click to fold the **Playback** window, and click to expand it.

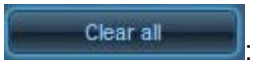
4.4.2 Video Backup



After setting search conditions by date on the video search panel, click **Add to backup list**, and the search results will be displayed on the backup file list. Click the video to be backed up on the backup file list, set the backup path, and click **Start** to back up the video.

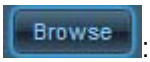
Add to backup list: Click the button after selecting the camera and the search time. If there is a video from the selected camera for the set search time, the search results will be displayed in the backup list on the right.

Clear selected items: Select one message in the backup list, and click the button to delete the message.



: Click the button to delete all the messages in the backup list.

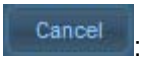
: Tick this option to back up the media player during video backup.



: Click the button to select the backup catalogue.

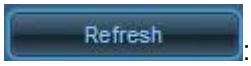
: Click the button to start backup.

: Click the button to pause backup.



: Click the button to cancel backup.

: Click once to select a disk in the disk list, and click the button to format the selected disk.

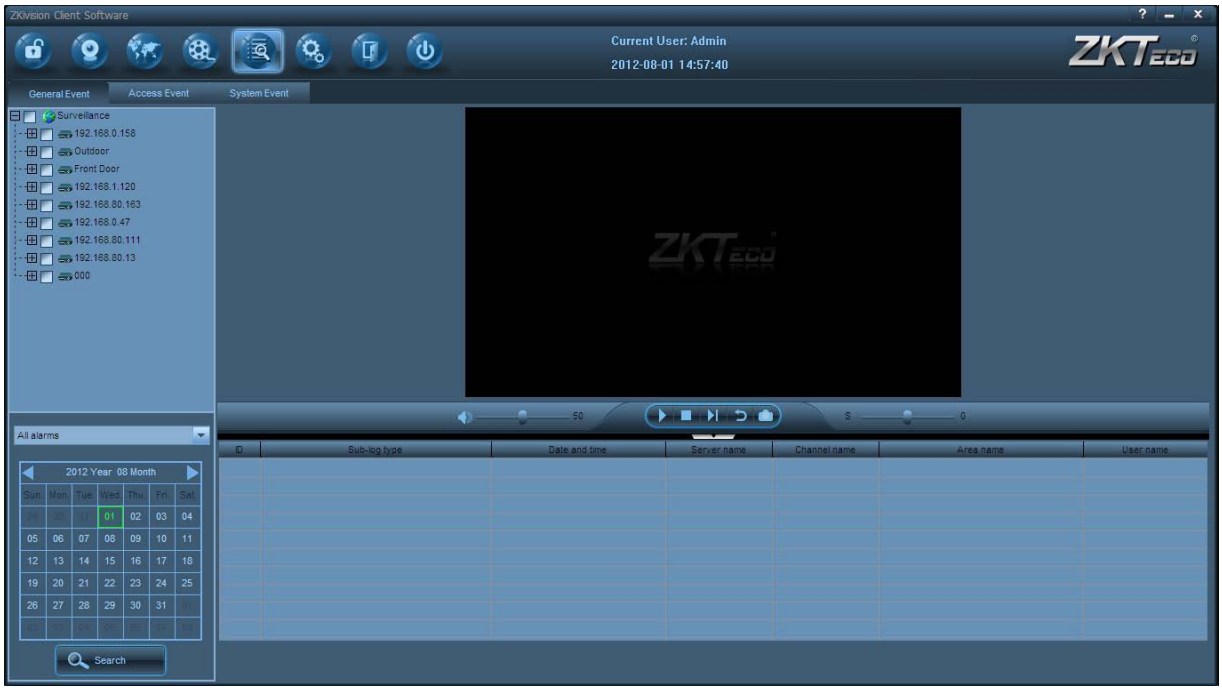


: Click to refresh the disk information.

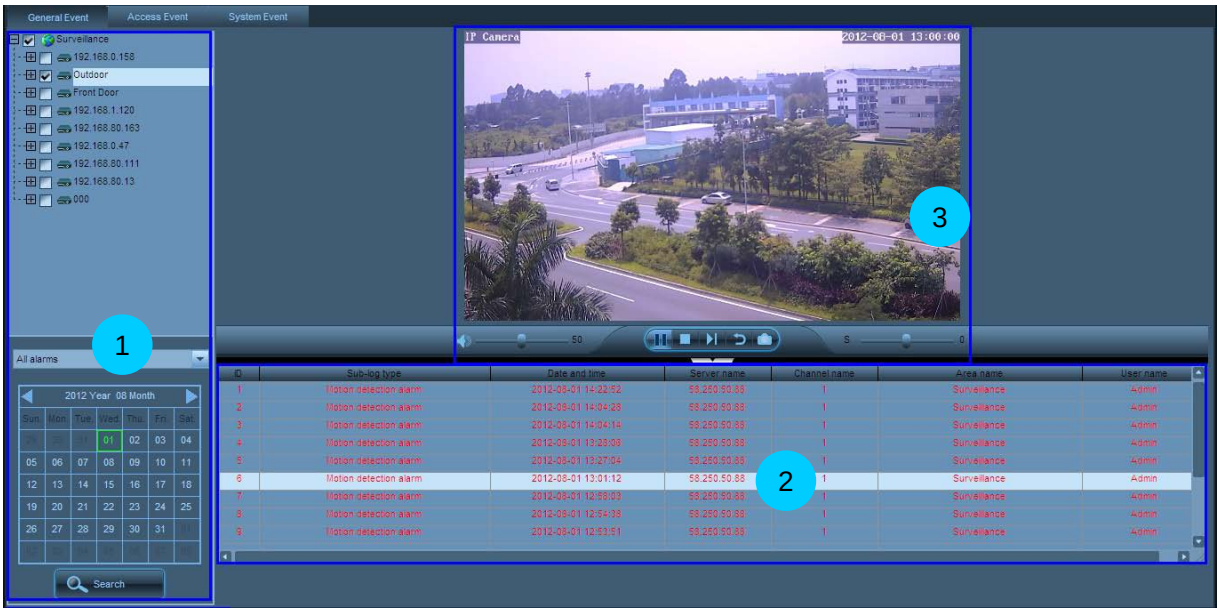
Note: Refer to Back Up Videos for how to back up the video.

4.5 Event Query

After setting search conditions on the log search panel, click **Search** or **Query**, and the search results will be displayed on the log list. You can query or play back the associated video.



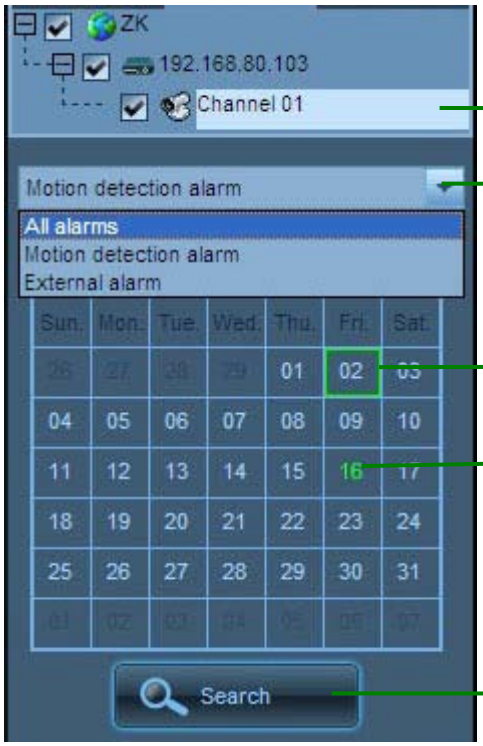
4.5.1 General Event



Area	Description
1	Log search panel

2	Log list
3	Playback window

4.5.1.1 Log Search Panel



1. Tick off the camera channels of alarm log to search for.

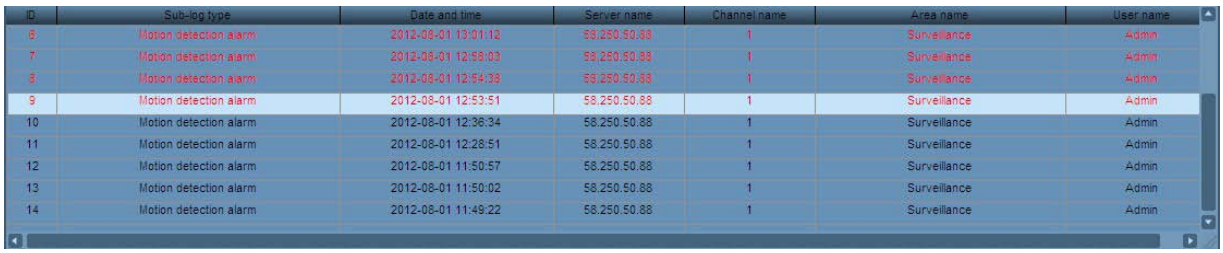
2. Choose a videotaping type to search for: All alarms, Motion detection alarm, or External alarm.

3. Click to choose the date to search videos (in green box)

Current date (in green characters)

4. Click **Search**.

4.5.1.2 Log List



ID	Sub-log type	Date and time	Server name	Channel name	Area name	User name
6	Motion detection alarm	2012-08-01 13:01:12	58.250.50.88	1	Surveillance	Admin
7	Motion detection alarm	2012-08-01 12:58:03	58.250.50.88	1	Surveillance	Admin
8	Motion detection alarm	2012-08-01 12:54:38	58.250.50.88	1	Surveillance	Admin
9	Motion detection alarm	2012-08-01 12:53:51	58.250.50.88	1	Surveillance	Admin
10	Motion detection alarm	2012-08-01 12:36:34	58.250.50.88	1	Surveillance	Admin
11	Motion detection alarm	2012-08-01 12:28:51	58.250.50.88	1	Surveillance	Admin
12	Motion detection alarm	2012-08-01 11:50:57	58.250.50.88	1	Surveillance	Admin
13	Motion detection alarm	2012-08-01 11:50:02	58.250.50.88	1	Surveillance	Admin
14	Motion detection alarm	2012-08-01 11:49:22	58.250.50.88	1	Surveillance	Admin

Different colors indicate different types of log:

- Red -- Alarm log with associated video
- Black -- Alarm log without associated video

4.5.1.3 Playback Window

Note: For details about the icon and functions of the playback window, see 4.4.1.3 Playback Window.

4.5.2 Access Event

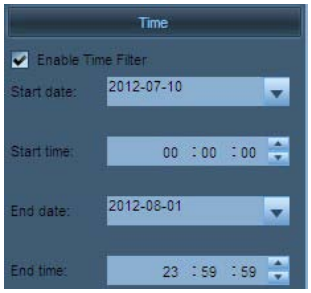
Area	Description
1	Log search panel
2	Log list
3	Playback window

4.5.2.1 Log Search Panel

To search access controller event logs, you can set several filtering conditions, such as time, IP camera, access controller, alarm pattern, user ID and verification mode.

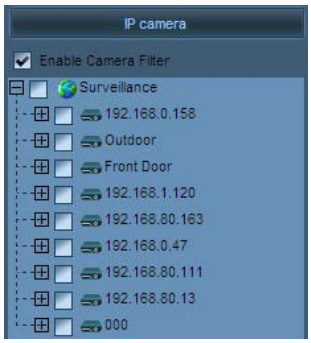
Note: The combination of various filtering conditions will filter the search results. If none of the filtering conditions is enabled, then all the current day's logs of all the devices will be searched by default.

- **Enable Time Filter**



After ticking **Enable Time Filter**, you can set the start time and end time for log searching.

- **Enable Camera Filter**

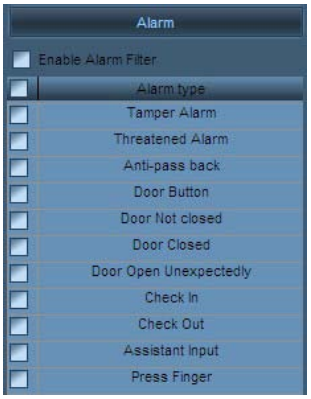


After clicking **Enable Camera Filter**, you can select the IP cameras of which the logs are to be searched for.

- **Enable Access Filter**

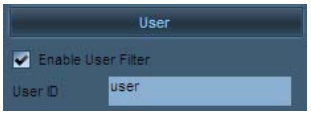
After clicking **Enable Access Filter**, you can select the access controllers of which the logs are to be searched for.

- **Enable Alarm Filter**



After ticking "**Enable Alarm Filter**", you can select types of alarm log to be searched for.

- **Enable User Filter**



After clicking **Enable User Filter**, you can search for logs by user ID.

- **Enable Verification Mode Filter**

After **clicking Enable Verify Mode Filter**, you can search for logs by verify mode.

4.5.2.2 Log List

Note: The log list of access controller events is the same as that of common events. For details, see 4.5.1.2 Log List.

4.5.2.3 Playback Window

Note: The playback window of access controller events is the same as that of common events. For details, see 4.4.1.3 Playback Window.

4.5.3 System Event

Area	Description
1	Log query panel
2	Device list/User list
3	Log list

Query mode Query logs based on a specified type of data.

Query all logs Query all logs of all devices.

Query based on device Select a device from the device list to query its logs.

Query based on user Select a user with operation logs from the user list.

Log type

	Log Type	Description	Sublog Type
All logs: Record all information of the system.	Operation log	Record all operation information of a user.	Network preview
			Voice intercom
			Guard
			PTZ control
			Remote setting
			Time calibration
			Others
	Alarm log	Record the alarm information of a device.	Disk full alarm
			Video loss alarm
			Motion detection alarm
			Hard disk read/write error alarm

			Standard mismatch alarm
			External alarm
			Others
	System log	Record information such as user login, logout and related information.	Login
			Logout
			Local settings
			Others

Start date Indicates the start time of a log search.

End date Indicates the end time of a log search.

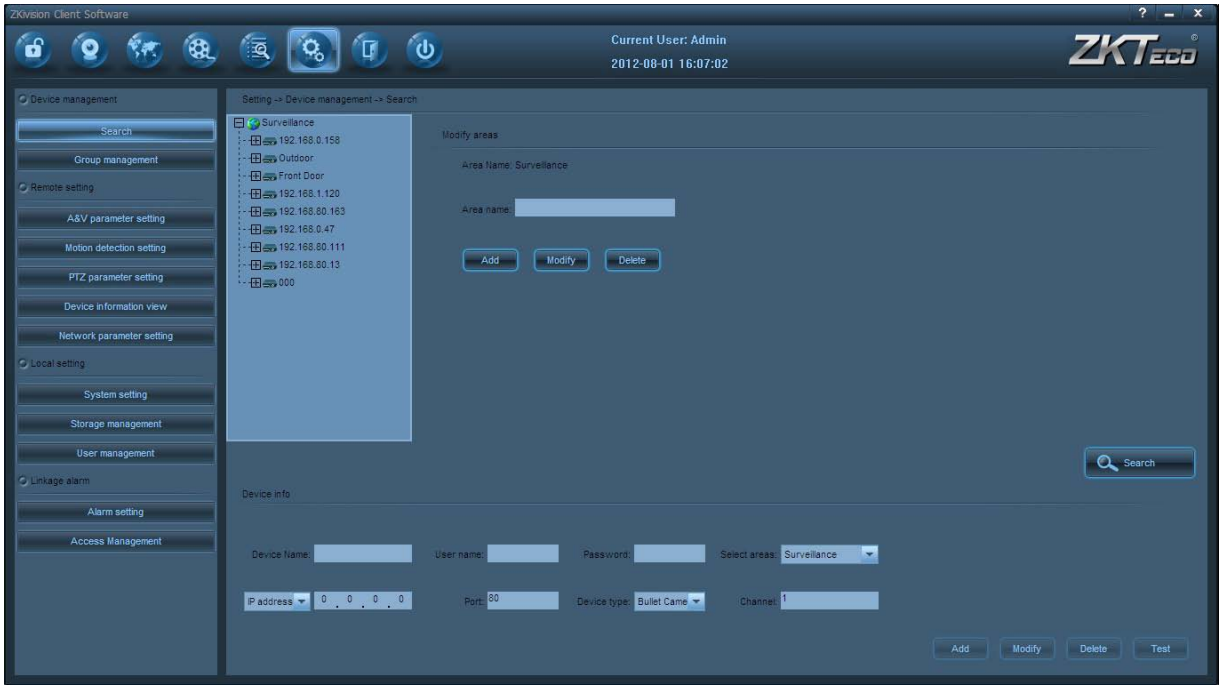
Query Select a camera channel from the device list, or a user from the user list. Then set query conditions on the **Log query** panel and click the **Query** button. Eligible results are displayed in the log list.

Previous page View the query results on the previous page.

Next page View the query results on the next page.

Total log number Indicates the number of all log query results.

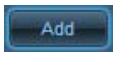
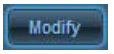
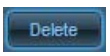
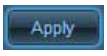
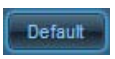
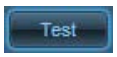
4.6 Settings



The **Settings** menu contains 12 submenus and allows settings of multiple devices (for example, the IP cameras).

- **Common operations and icon functions in the Settings menu**

Camera selection: Select a channel in the device list by clicking the channel name. **Camera connection**: Connect a camera by double-clicking the channel name in the device list.

Icon	Function description
	Add devices/areas/groups/camera presets/cruise paths/users.
	Save modified parameters or switch to modification state.
	Delete existing devices/areas/groups/camera presets/cruise paths/users.
	Synchronize the modified parameters with the remote device.
	Restore the parameters to their values in the last saving.
	Restore parameters to their default values
	Test whether the device can be connected properly

Save	Save the modified information to local database
Cancel	Cancel modification
Duplicate	Copy the setting to other devices

4.6.1 Search

- **Area Information**

Area name The name of the upper level area of the currently chosen area.

Area name Areas that can be set.

- **(Local) Device Information**

Device name Device names displayed in the software. After the **Device name** is set, the device list displays only the device name rather than the device IP address.

User name The user name that used to visit the front-end device. The device cannot be successfully connected unless you enter a correct user name.

Password The password that is used to access front-end device, and the device cannot be successfully connected unless you enter a correct password.

Area The area where the device belongs to.

IP address/Domain name The device cannot be connected successfully unless the device IP and domain name are consistent with that in the remote device.

Port The device's communication port. The device cannot be successfully connected unless the device communication port is consistent with that in the remote device.

Device type Bullet type camera or dome camera.

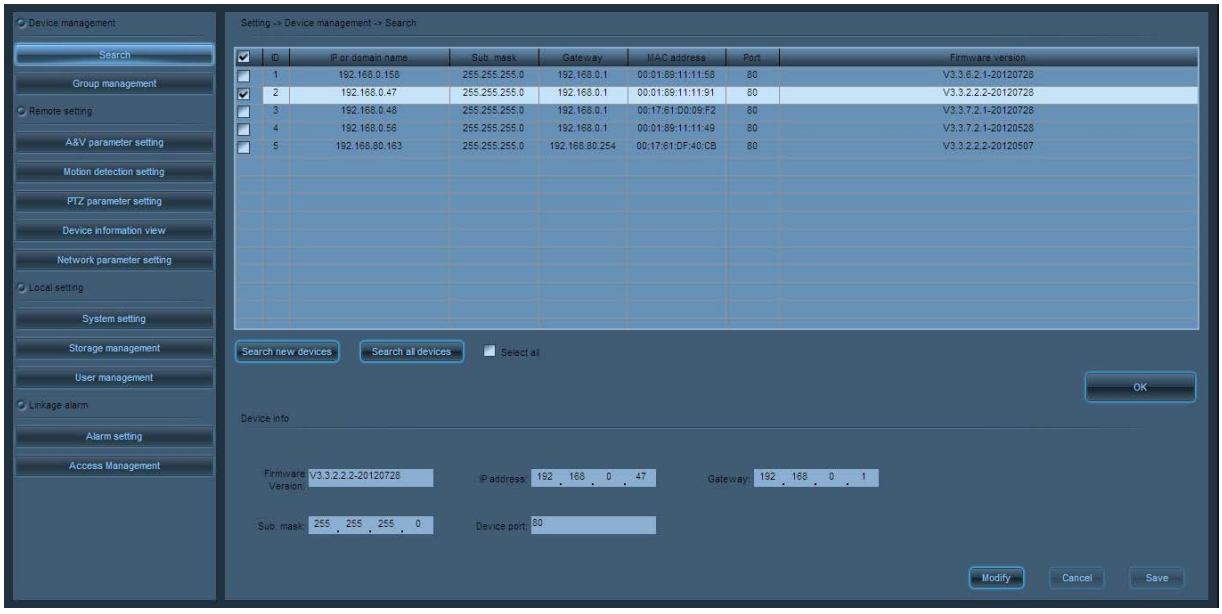
Channel Currently only one camera channel is available.

Note: 1. There are at most 128 areas can be added.

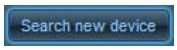
2. After device search is completed, the camera cannot videotape or capture images unless it is added to an area. An unpartitioned device cannot be used.

- **Device Search**

Click **Search** to display the search interface:



Search all devices over the LAN.



Search new devices over the LAN.

Select all devices in the search list.

- **(Remote) Device Information**

Firmware version The firmware version of the device.

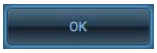
IP address The default IP address is 192.168.1.88. It can be modified as needed.

Gateway The default gateway is 192.168.1.1. It needs to be reset if the device and the PC are not in the same network segment.

Subnet mask The default subnet mask is 192.168.1.88. It can be modified as needed.

Device port The device port number is 80 by default. To modify it, please contact the network administrators or network professionals. The camera will be restarted after the port is successfully modified.

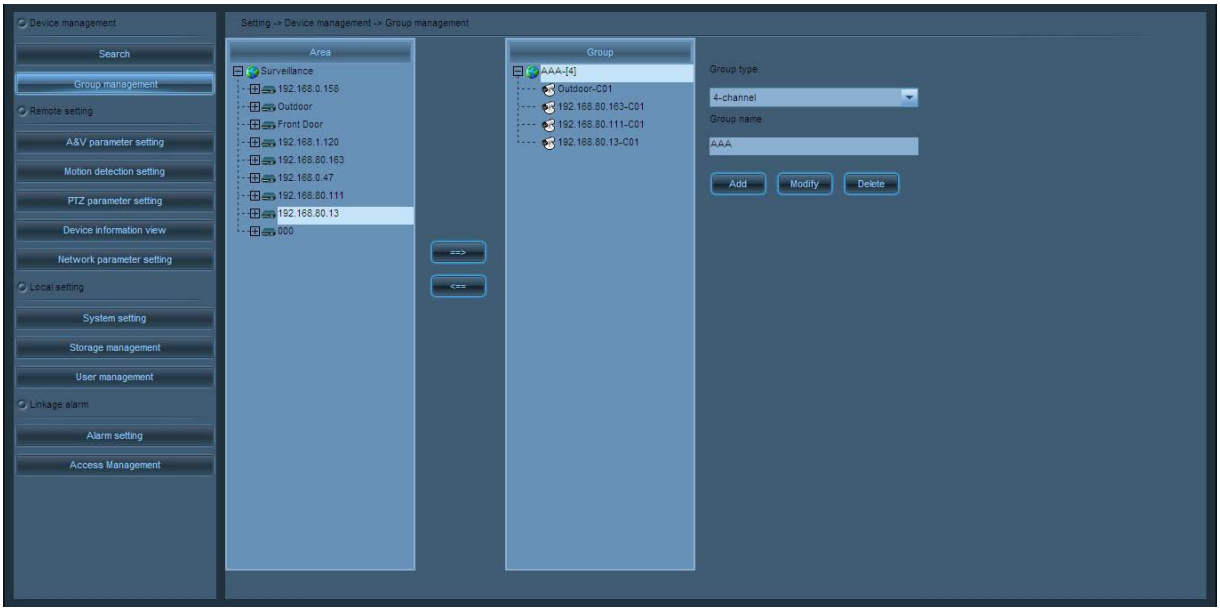
Administrator password To modify the IP address, gateway, subnet mask or port, a correct administrator password must be entered.

Click 

to go back to the upper interface.

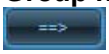
Note: For information regarding to device remote parameters (IP address and port) modification, see 5.4 Modify Network Parameters of a Camera.

4.6.2 Group Management



Group type Choose group type (according to picture quantities), including single picture, 4-picture, 6-picture, 8-picture, 9-picture or 16-picture.

Group name Set group names.



In the device list, select the device to be grouped. In the group list, click the group that will be added to. Click 

to add the device to this group.

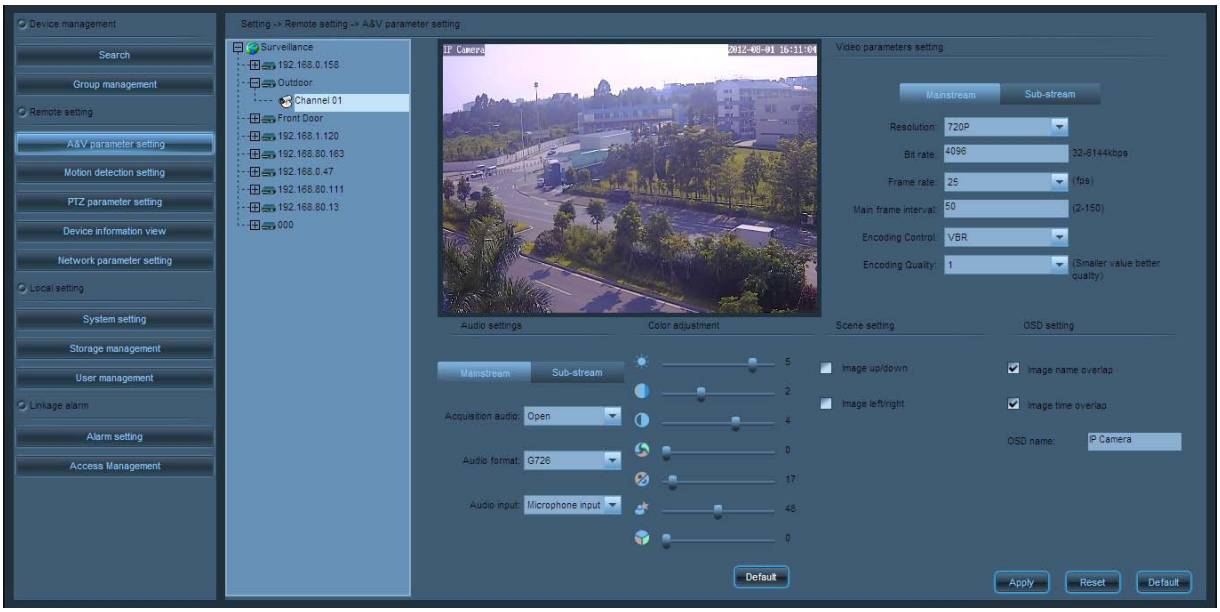
In the group list, select the device that will be deleted, and then click 

to delete the device from this group.

Note: 1. The device only can be operated after partition.

2. There are at most 20 groups can be added.

4.6.3 Audio and Video Parameter Settings



Double-click a camera channel in the device tree, and set the audio and video parameters after connection.

- **Video Parameter Settings**

Resolution Resolution is a standard to measure the image definition (unit: pixels). The higher the value is, the clearer the image is.

The main stream definition of HD cameras is 720P (1280*720 pixels), and the secondary stream definition is QVGA (320*420 pixels). For the main stream definition of HD cameras, you can choose one from D1, CIF, and QCIF. For the secondary stream definition of HD cameras, you can choose one from CIF and QCIF. D1 image resolution: 704*576 pixels, CIF image resolution: 352*288 pixels, and QCIF image resolution: 176*144 pixels.

Bit rate Indicates the transmission of data traffic per second. Generally bit rate is the multiple of 128 Kbit/s. The higher the bit rate is, the clearer the definition is. You can set an appropriate bit rate based on the network condition.

Frame rate indicates the number of pictures displayed on the screen per second. Frame rate can be set, and the higher the frame rate is, the better the video effect is. Generally, a frame rate that exceeds 24 frames per second is called all realtime images.

Main frame interval An image would be used as the main image in video compression. The rest images will be compared with this one and only the different images will be saved. When videotaping scenes with fast moving

objects, shorten the frame interval to avoid blurred streaks or motion blur. When videotaping scenes with slow moving objects, lengthen the frame interval to reduce the data volume and improve the compression ratio.

Video coding control You can select **Fixed stream** for a scenario in which surveillance activities are gentle, and the video encoder shall encode as the stream velocity set in the stream settings. You can select **Variable bit rate** for a scenario in which surveillance activities are intense, and the video encoder can operate at a variable bit rate without losing image quality. Encode based on the set stream velocity, but the encoding will not follow this velocity completely. **Video encoding quality** You can choose any video encoding quality from 1 to 6. The smaller the value is, the better the image quality is, and the greater the stream control is.

- **Audio Parameter Settings**

Audio acquisition **Enable** indicates that transmitting audio signals is available. **Disable** indicates that transmitting audio signals is unavailable.

Audio format You can choose G711, G726 or AMR as the audio format.

	Code rate	Sound quality	Application condition
G711	Larger	Higher	The network is in good condition
G726	Medium	Intermediate	The network is in intermediate condition
AMR	Smaller	Bad	The network is in bad condition

Audio input mode When a microphone is functioned as the external audio acquisition device, choose **Microphone input** to use an external amplification device to amplify the audio signal because the microphone has a low output power. When the recording volume and the output power of the audio acquisition device are high, choose **Linear input** to get a better recording effect.

- **Color Adjustment**

See the **Color Adjustment panel** in 4.1.4 Control panel for details.

- **Scene Settings**

Image up/down rotation Select it to rotate the image up and down. This is only for HD cameras.

Image left/right rotation Select it to rotate the image right and left. This is only for HD cameras.

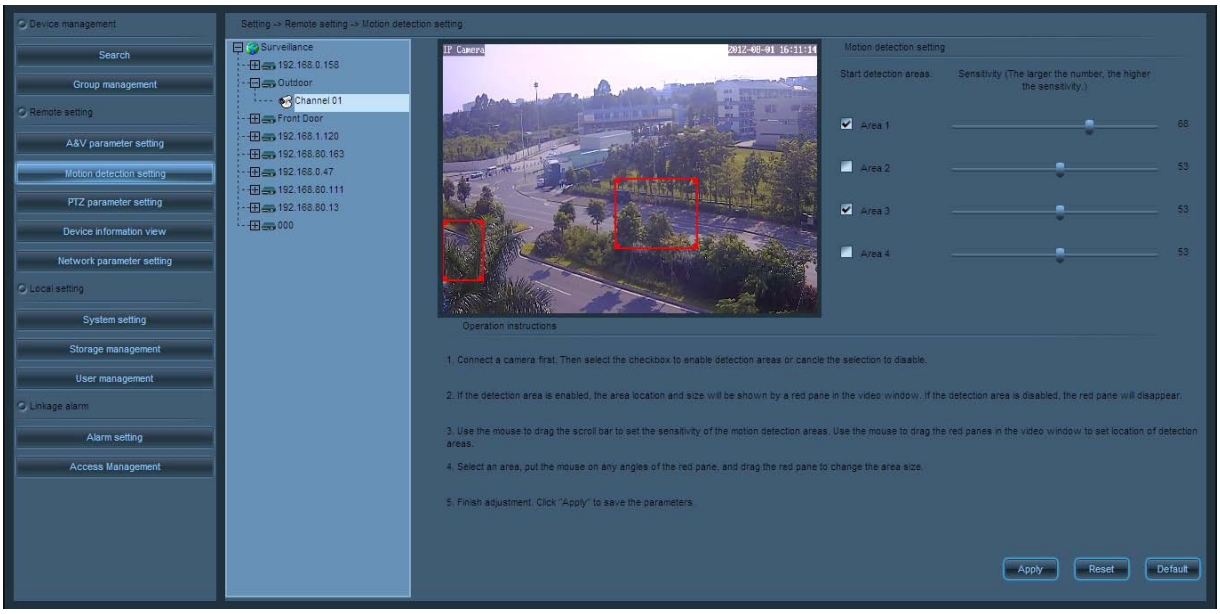
- **OSD Settings**

Name Overlap Select it to overlap the camera name to the upper left corner of the video.

Time Overlap Select it to overlap the camera time to the upper right corner of the video.

OSD name The camera name, with a maximum number of characters of 17 that can be entered

4.6.4 Motion Detection settings



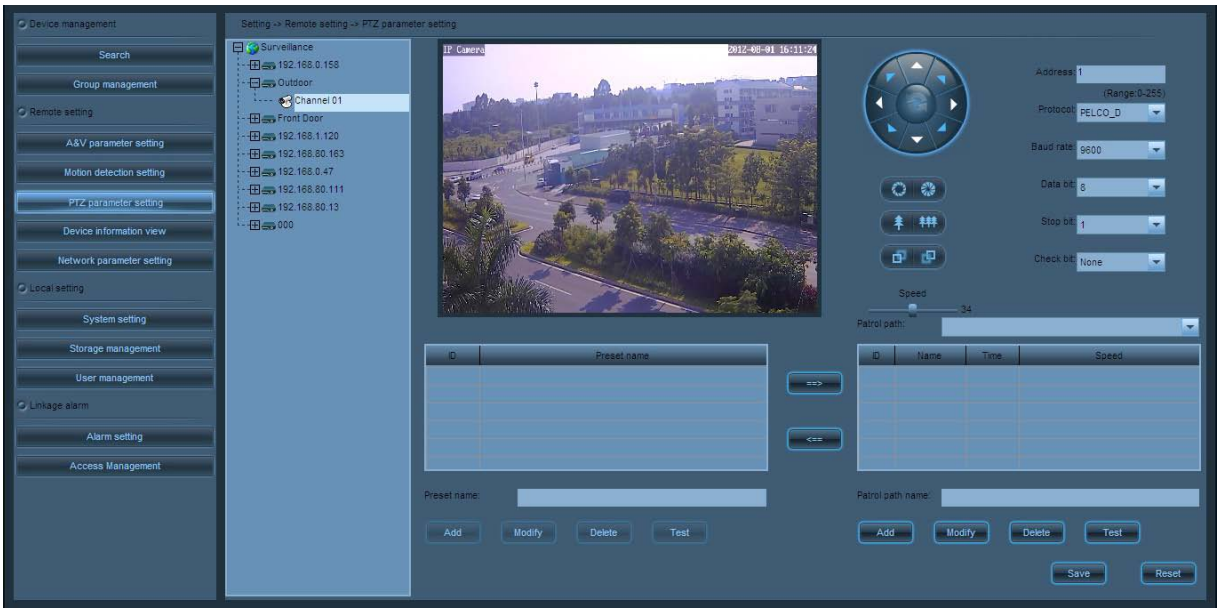
To monitor a specific area and ensure the alarm can be automatically activated when abnormal motion occurs, you can select and activate motion detection. Double-click the camera channel in the device tree and set the motion detection of the camera after connection. The camera supports 4-motion-detection-area setting. Tick off the option box on the right side of the interface to activate the corresponding options.

Detection area Tick off the option box on the right side of the interface to activate the corresponding options. The 4-motion-detection-area setting is supported on the camera.

After an area is activated, the area box and the area number will be displayed on the screen. Move the mouse into the area box. Left-click the mouse to drag the area box into any place on the image. You can also move the mouse to the lower right corner of the area box. Left-click the mouse to adjust its size.

Sensitivity The sensitivity ranges from 0 to 100. The larger the number is, the higher the sensitivity is.

4.6.5 PTZ Parameter Settings



Double-click the camera channel in the device tree, and set the PTZ parameter after connection.

- **PTZ Control**

See the **PTZ control** panel in 4.1.4 Control panel for details.

- **Pan-tilt Settings**

Address code It is used to distinguish various pan-tilts. The address code of the pan-tilt can be modified by using pan-tilt internal code. Please set the address code to match it with the pan-tilt address code.

Protocol You can choose PELCO-D or PELCO-P as the communication protocol of pan-tilt motor control. This protocol must be consistent with the pan-tilt internal control protocol.

Baud rate For the transmission frequency of RS-485 signal, the higher the baud rate is, the faster the transmission speed is, and the error rate rises accordingly. The baud rate must be consistent with that of the internal pan-tilt.

Data bits, stop bits, and **calibration** The transmission parameters of RS-485 protocol must be consistent with that of the internal pan-tilt.

Note: 1. Due to different production standards of manufactures, when the incomplete match of the address codes occurs, try to add 1 or minus 1 to implement complete match.

2. For pan-tilt related parameters, see *Pan-tilt User Manual.*

- **Preset and Cruise**

When the motion pan-tilt arrives at the place you focused on. Click and choose the preset number in the preset list. Set the preset name and click **Add** to add the preset**.**

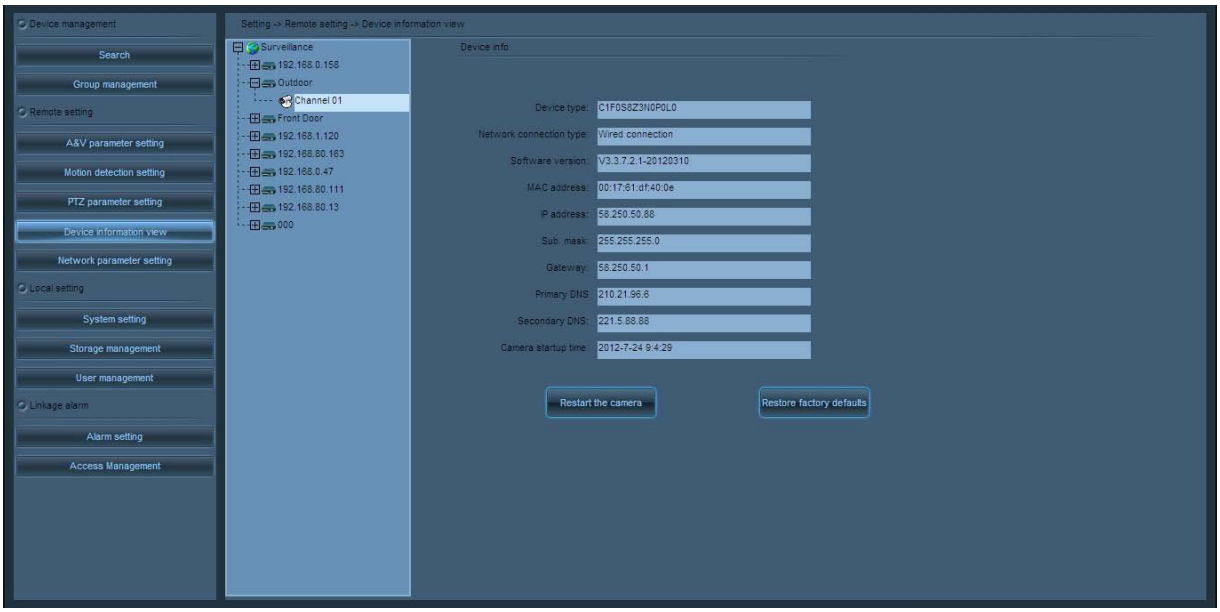
After adding two or more presets to the camera channel, you can configure a cruise based on the presets.

After setting the cruise, click **Add** to add a cruise. Click and select a **Preset** in the preset list, Select the cruise that will be added to from the drop-down list, Click 

to add this preset to the selected cruise. Click and choose the unnecessary preset. Click 

to delete it from the cruise.

4.6.6 Device Information View



Double-click the camera in the device list. Check the configuration information of important parameters of the camera in the right side of the interface.

Click 

to restart the camera.

Click 

to restore the camera parameters to its factory defaults.

4.6.7 Network Parameter Settings

Double-click the camera channel in the device tree and set the network parameter of the camera after connection.

IP address The default IP address is 192.168.1.88. It can be modified as needed.

Subnet mask The default subnet mask is 192.168.1.88. It can be modified as needed.

Gateway The default gateway is 192.168.1.1. It needs to be reset if the device and the PC are not in the same network segment.

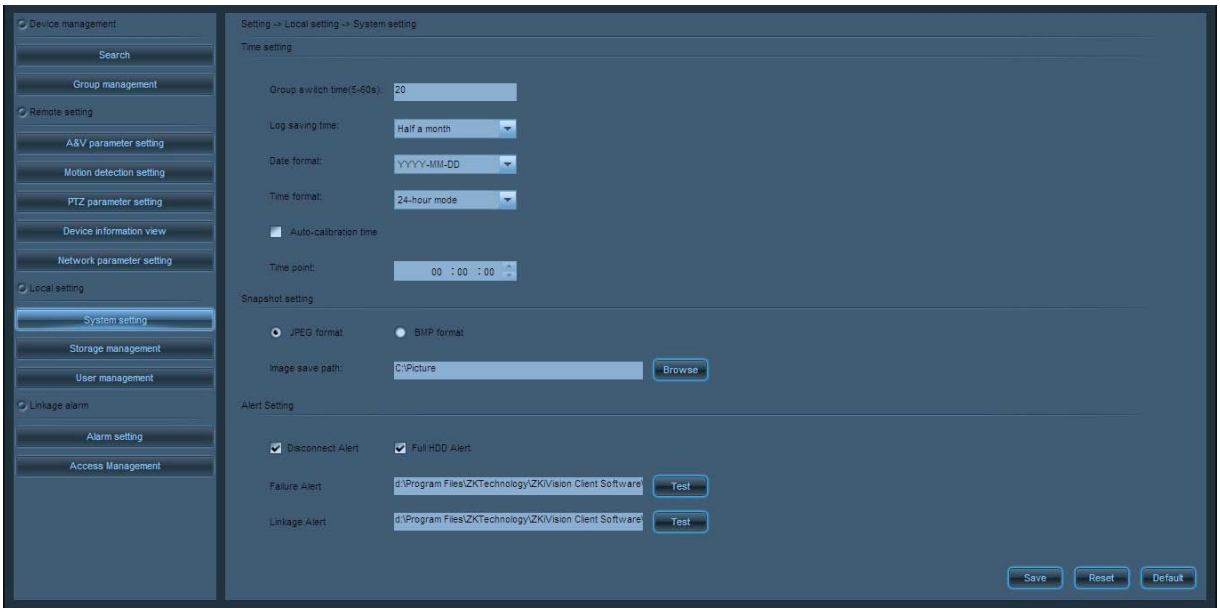
DNS acquisition mode Domain Name Server (DNS) can translate the domain name into an IP address. In **Manually set the DNS** mode, you need to enter the primary and secondary DNS addresses manually. When select "Automatically obtain the DNS", the DNS address will be obtained automatically when the camera is connected with the LAN.

Primary DNS The primary DNS is 192.168.1.88 by default. It can be modified as needed.

Secondary DNS The system will connect the secondary DNS when the connection failure or error of the primary DNS occurs.

HTTP port The device port number is 80 by default. To modify it, contact the network administrators or network professionals. The camera will restart after the port is successfully modified.

4.6.8 System Settings



- **Time Settings**

Group switch time The time interval of group switching. The group switch time is 20s by default. It can be set from 5s to 60s.

Log storage time The logs can be saved for a week, half a month, or a month. The default storage time is a week.

Date format It includes year-month-day, month-day-month, or day-month-year. The default format is year-month-day.

Time format It includes 12 hours or 24 hours. The default format is 24 hours.

Auto-calibration time Select it to calibrate the time of all connected devices during the given time, that is, synchronize the time of all devices with the PC.

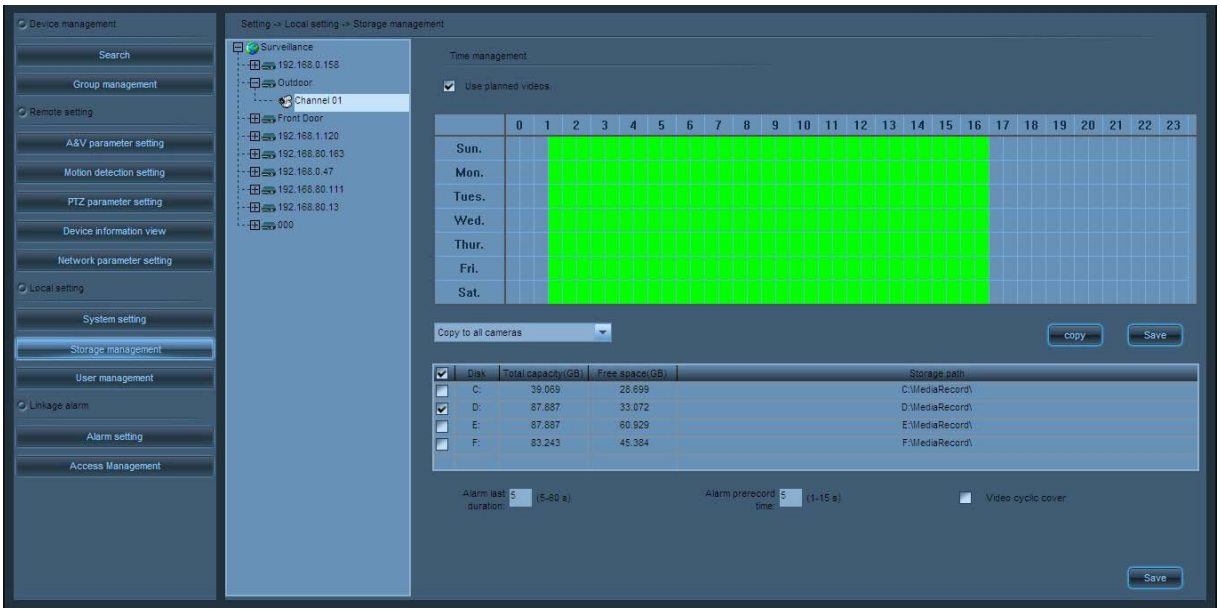
Auto-calibration time Calibrate the time automatically.

- **Capture Settings**

Image format The formats of system captured pictures include JPEG and BMP. The default format is JPEG.

Image storage path The default storage path of the captured pictures is **C:\Picture**.

4.6.9 Storage Management

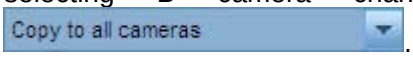


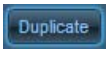
Double-click the camera channel in the device tree and set the planned videos of the camera after connection.

Sunday–Saturday Indicates a week (unit: day).

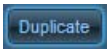
0–23 Indicates one day (unit: half an hour).

Activate scheduled videotaping Tick off the **Use planned videos** to select the camera channel in the schedule. Left-click the mouse and drag the mouse up to make a green box (as shown in the preceding figure). The scope of the green box indicates the time range during which the schedule videotaping is activated. After the time range is set, click **Save**.

Deactivate scheduled videotaping Clear the use planned videos option and click **Save,** or eliminate green boxes in the schedule and click **Save**. The green box can be eliminated just by left-clicking and dragging the mouse up on the screen box. **Copy scheduled videotaping** If the videotaping time of A camera is identical with that of B camera, set A camera by selecting B camera channel from the drop-down list 

. Click 

and 

to save your setting. To set a same videotaping time for all cameras, you only need to set one of them and select **Copy to all cameras**. Then click 

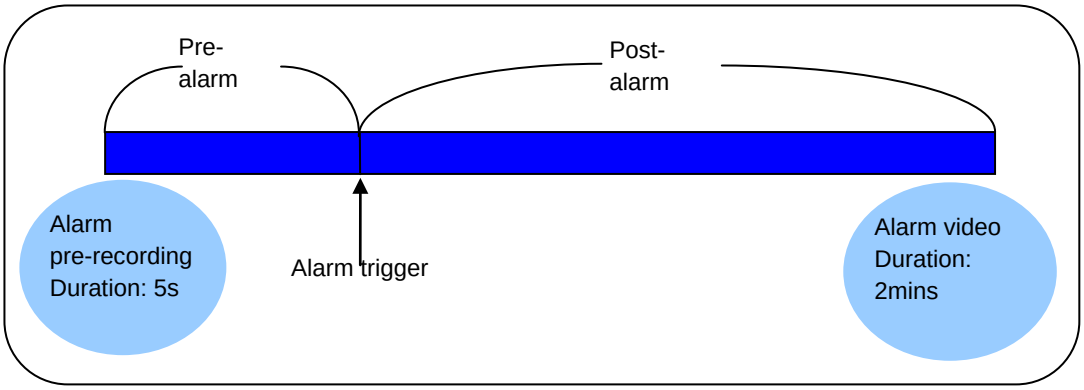
and 

to save your setting. The schedule videotaping function is activated on all cameras.

Video storage path After ZKiVision is installed, it will automatically detect the computer disk and displays the test results in the list. The default storage path is **D:\MediaRecord\.** When the space of the first selected disk is less than 5G, the second selected disk will begin to videotape.

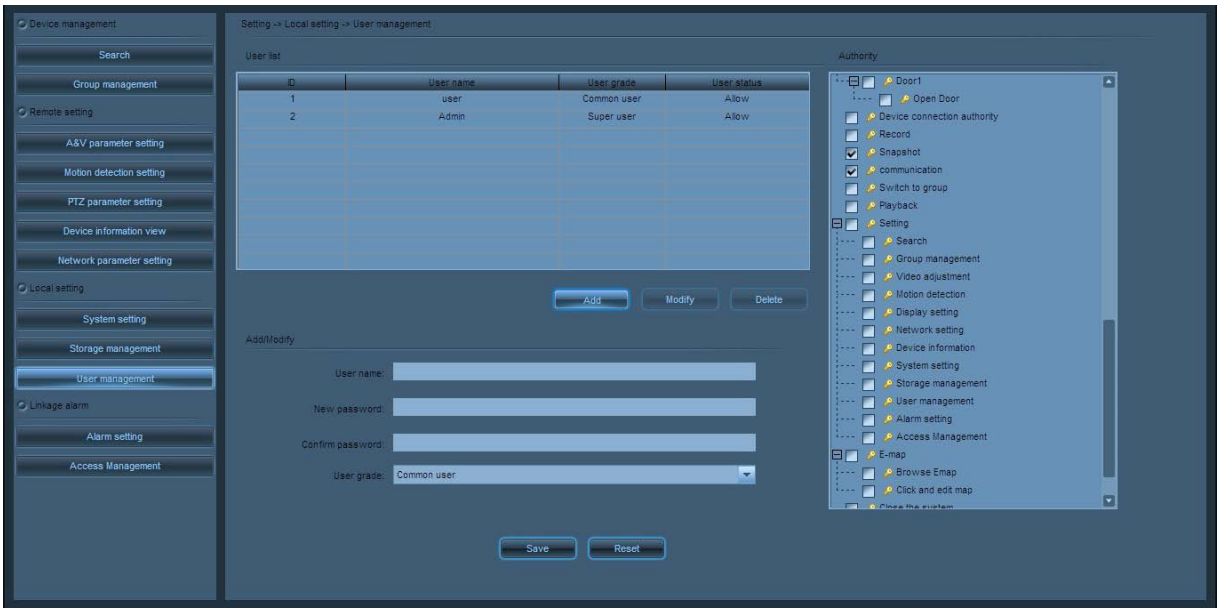
Alarm duration The duration of the alarm videotaping is 5s by default. It can be set from 5s to 60s.

Alarm pre-recording duration The pre-recording duration of the alarm videotaping is 5s by default. It can be set from 1s to 15s.



Videotaping circulation coverage If you select it, the system will automatically overwrite the earliest videotaping when all the configured videotaping disk spaces are less than 5G. If you clear it, the **Disk cleanup** interface will pop out when all the configured videotaping disk spaces are less than 5G. As long as one of the configured videotaping disk spaces is more than 5G, the scheduled videotaping will restart.

4.6.10 User Management



- **User list**

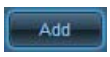
ID User list number. The serial number of the newest user in the system is 1.

User name The user name used to log in to the system.

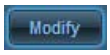
User level Users with different operating authorities.

User level	Default permission
Superuser	Possesses all permissions and can perform any settings
Customize user	Select the permission in the permission list on the right side.
Common user	Only such functions as preview, PTZ control, capture, and intercom can be operated.

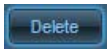
User status **Allow indicates** that the user can log in to the system. **Prohibit** indicates that the user cannot log in to the system.



Click **Add** to add new users. For superusers, they can add superusers, customize users or common users. For custom users with “user management" permission, they can add common users.



Choose a user and click **Modify** to modify the user information.



Choose a user and click **Delete** to delete the user information.

Note: 1. Superuser **Admin** exists in the system by default and the default password is “123456”. This superuser cannot be deleted and his user level cannot be modified.

2. Up to 10 users can be added in the system.

- **Modification**

User name User name cannot be modified.

Current password Enter the current password.

New password Enter the new password.

Confirm password Enter the new password again.

User grade: Modify the user level.

Permission Select or delete the actionable items in the permission list on the right side.

Save Save the modified information.

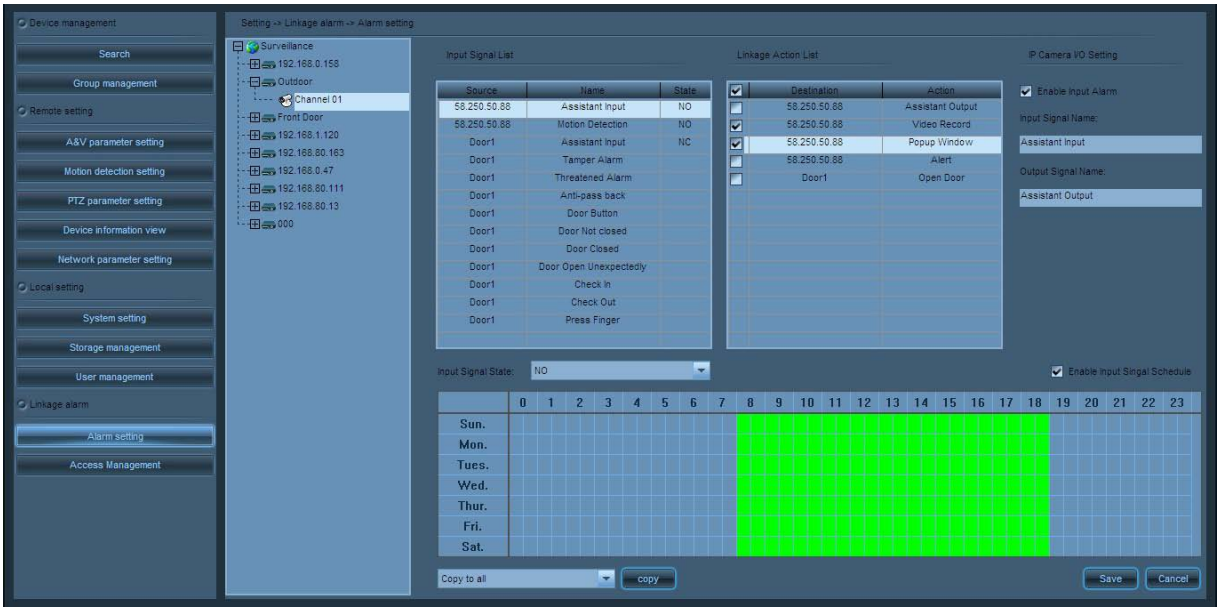
Reset Restore the data to its last saved value.

Forbid Temporarily prohibit the user from logging in to the system. After this button is clicked, it will switch to Allow automatically. Take effect after modification saving.

Note: 1. On this interface, only the current user can modify the password and they cannot delete their accounts.

2. Only the founder of the users can modify their user grades.

3. Any system login passwords of existing users can be modified on the **Login/Logout** interface. **Alarm Settings**



Double-click the camera channel on the device tree. When the connection is successful, set the alarm linkage items.

Enable input **alarm** Ticking this option will enable alarm input signals of the camera.

Input signal name You can enter the specific name of the auxiliary input signal. The modification will be effective immediately.

Output signal name You can enter the specific name of the auxiliary output signal. The modification will be effective immediately.

Input signal list List of input signals that generate alarms: auxiliary input, motion detection, auxiliary input, alarm upon tearing down the device, intimidation alarm，anti-passback alarm, closing the door after you go out, leaving the door open, the door being closed, the door being opened unecpectedly, checking on work attendance, checking departure from work and fingerprint.

Linkage action list Alarm linkage action list: auxiliary output, video recording, window display, alarm bell and opening the door.

Input signal State There are two status options for auxiliary input signals: Normal Open and Normal Close. Select Normal Open for alarm input devices of normal open type and select Normal Close for those of normal close type. This setting is invalid for other input signals.

Sunday ~ Saturday Indicating *a* week*, with day as the unit.*

0 ~ 23 Indicating *a day, with half an hour as the unit.*

Enable input signal alarm linkage Double-click the camera channel on the device list for connection. After setting the linkage items corresponding to input signals, tick **Enable input signal setting**. Then on the schedule, click the left mouse button to drag a green block, as shown in the above figure. The scope of the green block is the time period for enabling input signal alarm linkage. When the time period is set, click **Save**.

Disable input signal alarm linkage Cancel ticking **Enable input signal setting** and click **Save**; or cancel the green block on the schedule and click **Save**. Cancel the green block: You can cancel the green block by clicking the left mouse button on the green block and dragging the mouse cursor.

Copy input signal alarm linkage If the input signal alarm linkage actions for B are the same as those for A, you can select B input signals from the dropdown list of **Copy to all input terminals** after setting A input signals, click **Copy** and **Save**. If the linkage actions and linkage time for all the input signals are the same, you only need to set for one signal, then select **Copy to all input terminals**, and click **Copy** and **Save**. In this way, alarm linkage is set to all input signals of the camera.

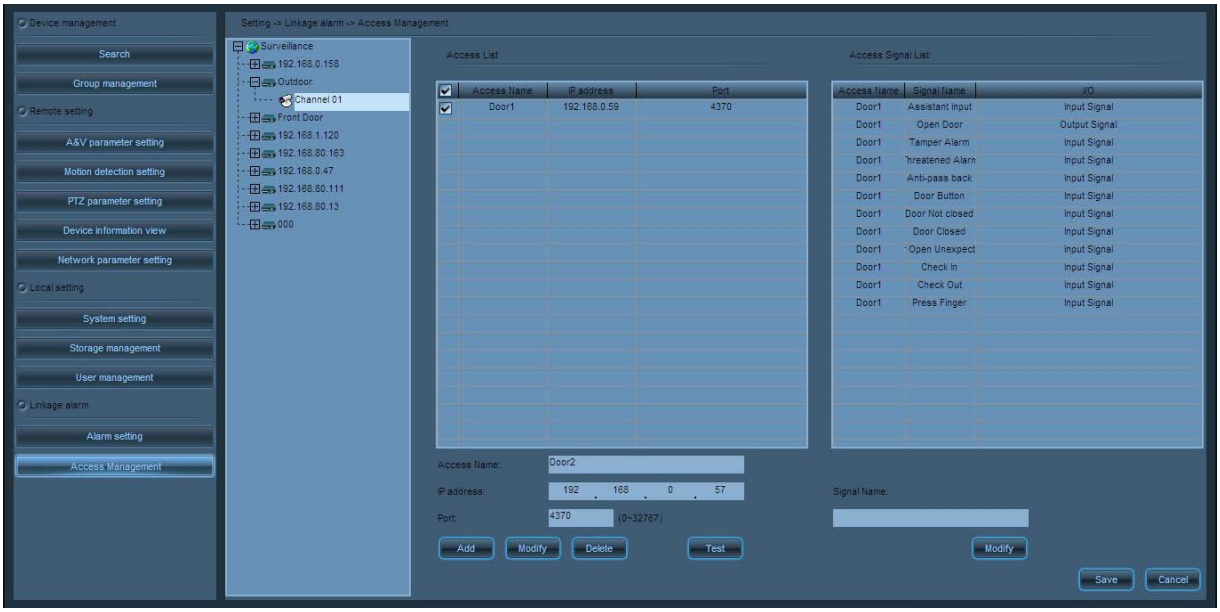
☺Notes: 1. Only when the camera is associated with the access controller, the alarm input signals of the access controller will be generated on the input signal list, and the

output action of the access controller, opening the door, will be generated on the output signal list. For the setting of the association of the camera with the access controller, see 5.23How to Set and Apply the Association of the IP Camera with the Access controller.

2. The alarm linkage of all signals will work only after the device (the camera) is armed. If the device is disarmed, it cannot produce alarm linkage.

3. If new alarm messages are generated during the alarm period, the alarm period will be extended accordingly.

4.6.12 Access Management



Double-click the camera channel on the device tree. After the connection is successful, you can associate the camera with the access controller. After associating the device with the access controller, you can set input signal alarm linkage for the associated access controller on the alarm linkage setting page.

Access Name	You can set names for access controllers.
IP address	Manually type the IP address of the access controller.
Port	Manually fill in the communication port between the access controller and the camera.
Access list	Access controllers added to the system will be displayed on this list.
Access signal list	After you click an access controller on the access controller list, signals of this access controller will be displayed on this list.

Signal name After clicking a certain signal on the access controller signal list, you can set signal name.

Associate the camera with the access controller Double-click the camera channel on the device tree. After the connection is successful, click to select access controllers (you can select more than one) to be associated with. Click the **Save** button on the lower right corner to save the setting.

Notes: 1. You have to add access controllers to the system manually.

2. The port you fill in here must be consistent with the actual port of the access controller. The default port is 4370 and generally needs no change. If the actual port of the access controller is not the default 4370, please contact your access controller supplier for the actual port number.

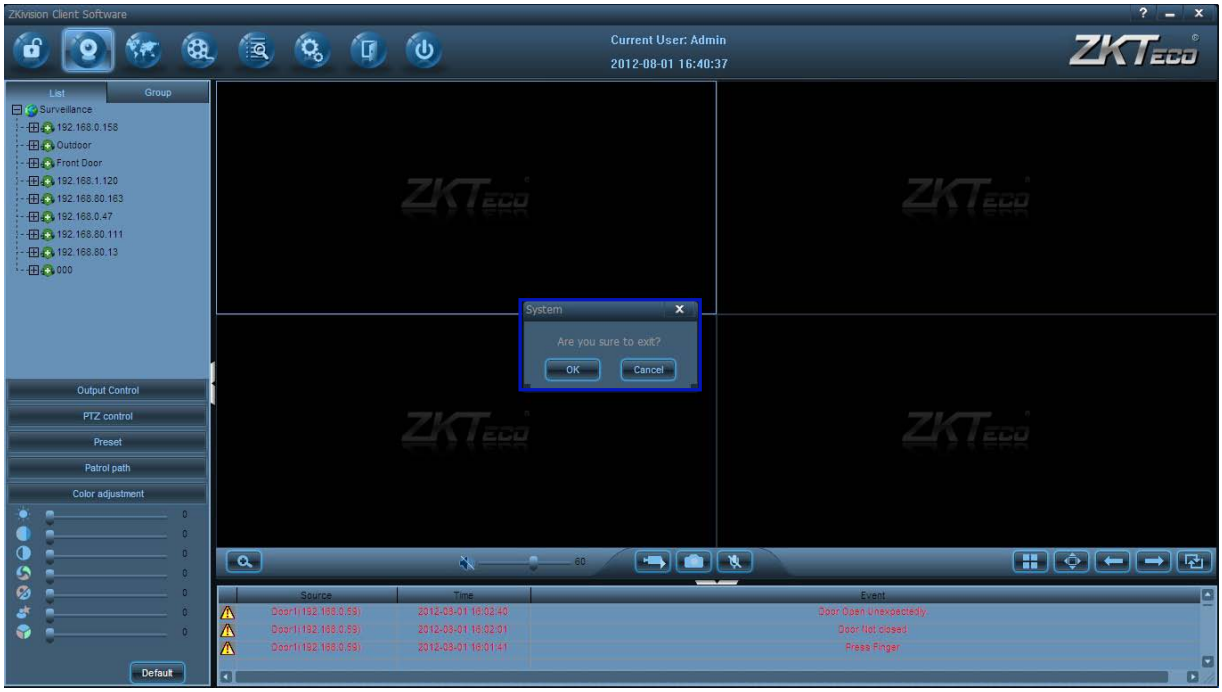
3. For associating the IP camera with the access controller, see How to Set and Apply the Association of the IP Camera with the Access Controller.

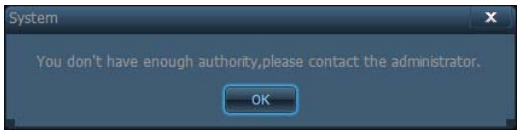
4.7 Access Management

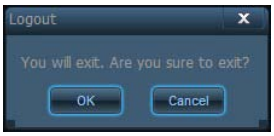
Click to quickly access interface “**Access Management**”.

Note: For details, see Access Management .

4.8 Logout



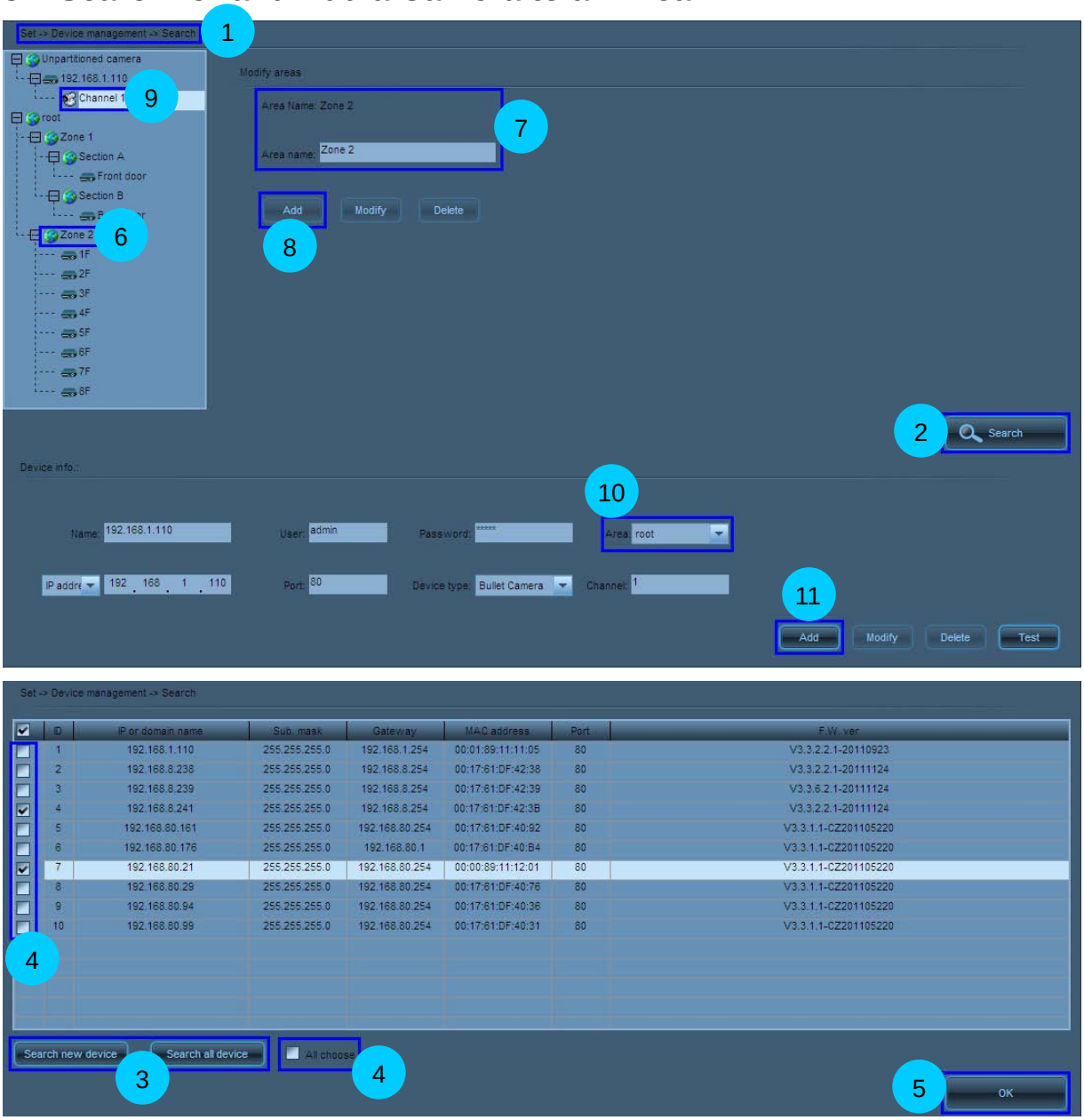




Note: Only superusers and the custom users with a system shutdown authority can exit the client software.

5 Configuration

5.1 Search for and Add a Camera to an Area

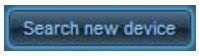


1 Choose Set > Device management > Search.

2 Click 

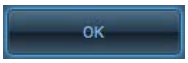
to display the **Search** interface.

3 Click 

or 

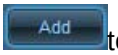
to search for the desired devices.

4 In the search list, select one or more cameras or tick off **All choose** to select all cameras.

5 Click  to finish camera search.

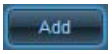
6 Click a parent area in the device list.

7 Set the area name.

8 Click  to put this area under the parent area.

9 Click an unpartitioned camera channel in the device list.

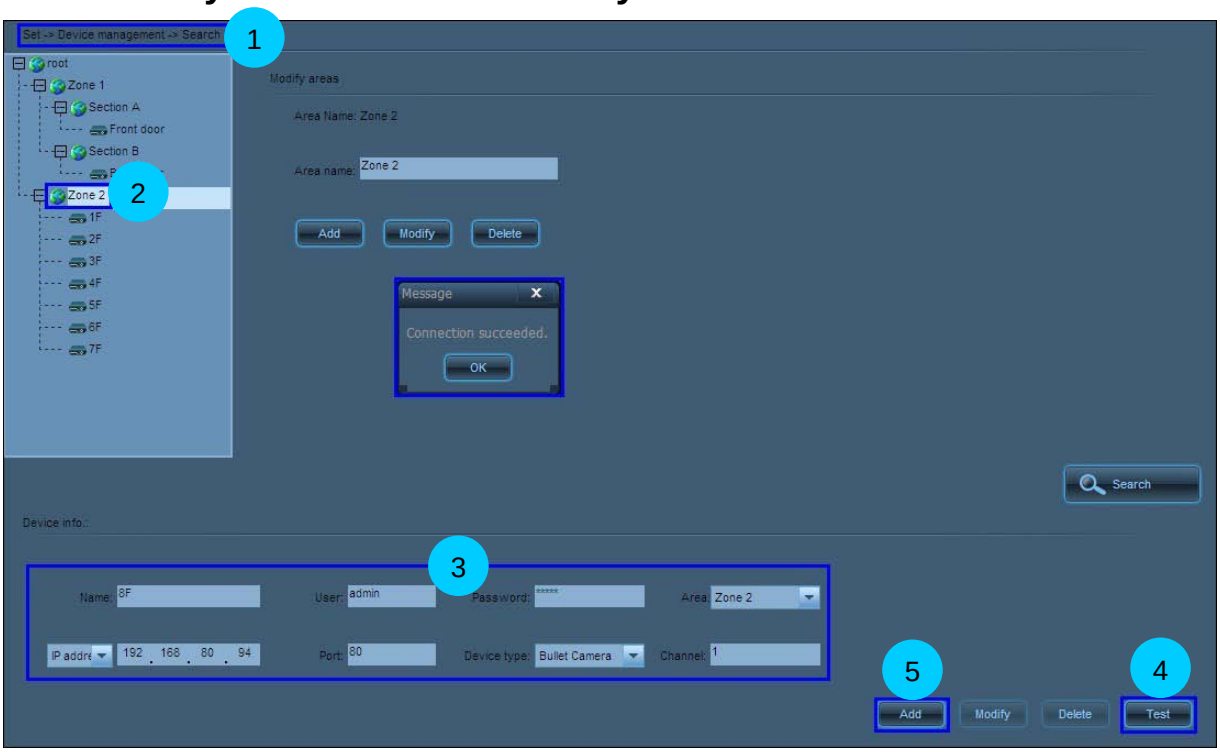
10 Set the area under monitoring of this camera in the **Device info** pane.

11 Click  to add this camera to the area.

Note: 1. Up to 128 areas can be added.

2. After device search is completed, the camera cannot videotape or capture images unless it is added to an area. Unpartitioned devices cannot be used.

5.2 Manually Add a Device to the System



1 Choose Set > Device Management > Search.

2 Click a parent area in the device list.

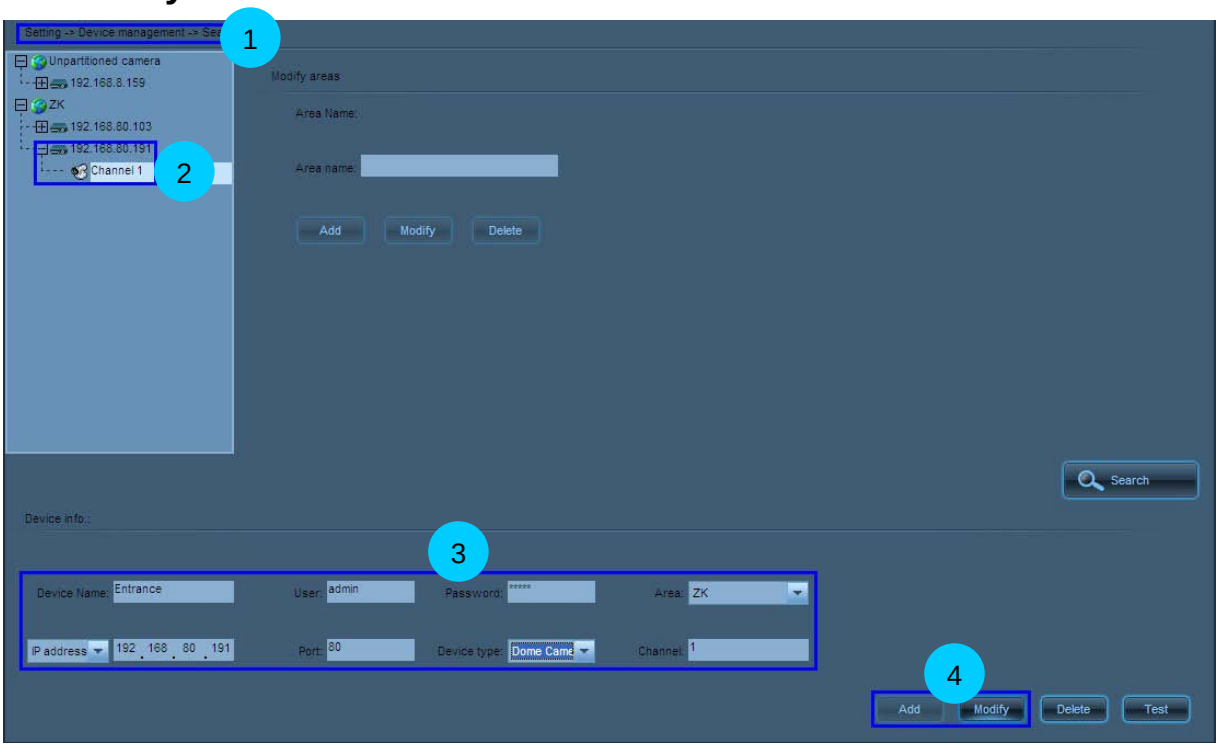
3 Manually fill in information about the to-be-added device in the **Device info** pane.

4 Click Test to check whether connection succeeds.

5 After confirming the connection succeeds, click Add to add the camera to the system.

Note: If a device has no fixed IP address on a public network, you can gain access to this device by using a domain name provided by the domain name supplier. In this case, you must manually add this device to the system. For details of domain name registration and device configuration, see 5.20 Apply for and Use a Domain Name for Device Access.

5.3 Modify Local Device Information



1 Choose Settings > Device management > Search.

2 Click a camera channel in the device list.

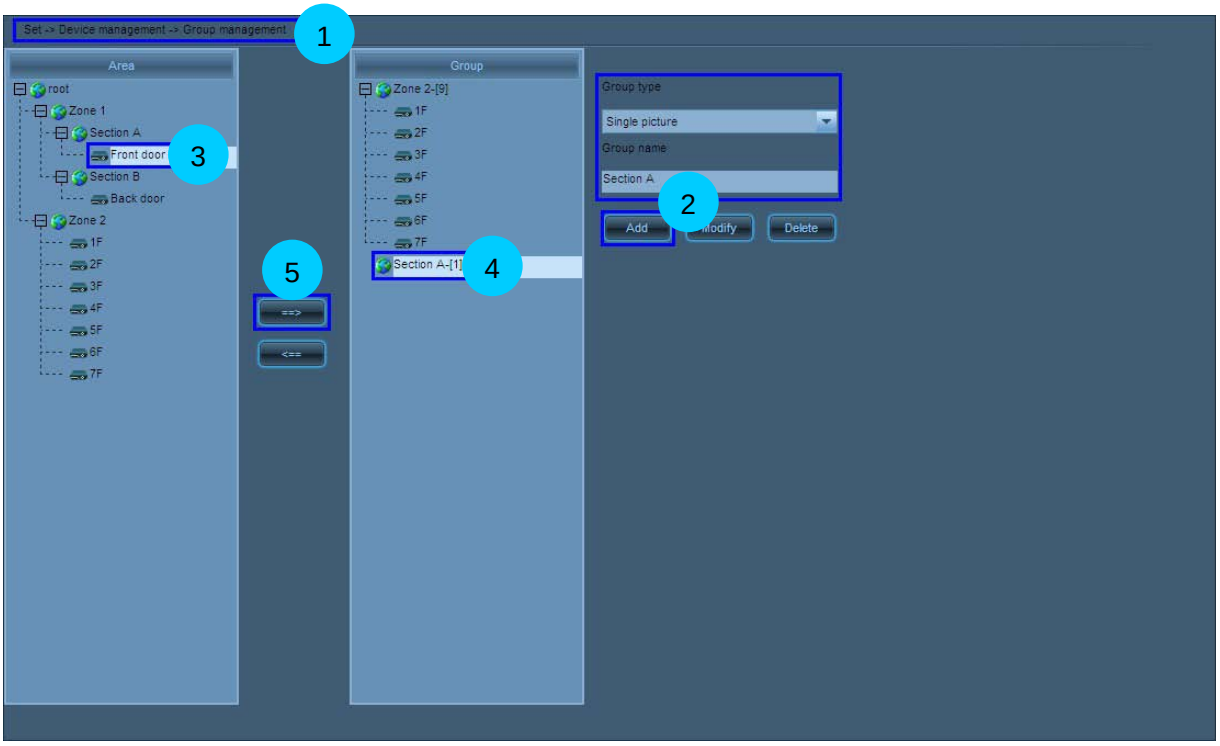
3 Modify the device information in the **Device info** pane.

4 Click Add or Modify to save modification.

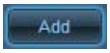
Note: 1. After a device name is set, the device list displays only the name instead of the IP address of the device.

2. This section describes the procedure for modifying related local device information. For details of modifying remote device parameters (such as IP addresses and port numbers), see Modify Network Parameters of a Camera.

5.4 Group Cameras



1 Choose Set > Device management > Group management.

2 Set the group type and group name and click 

to add a new group.

3 Click a camera channel in the device list.

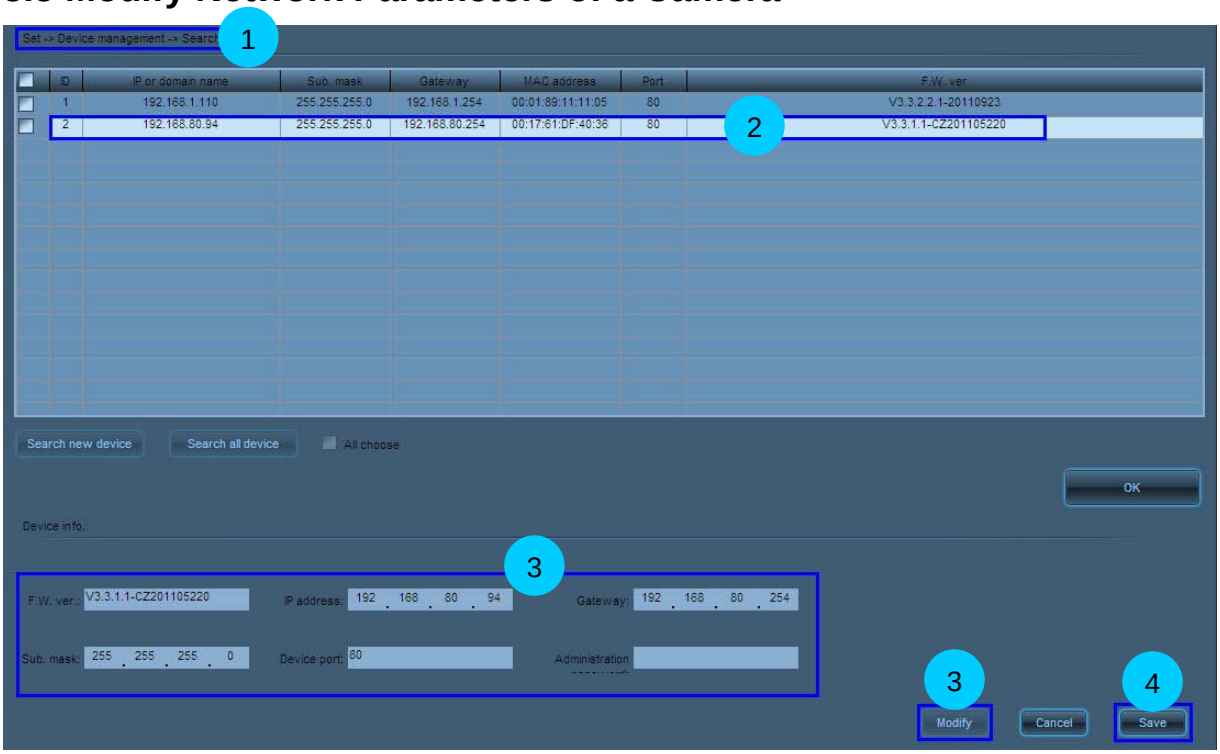
4 Click a group in the group list.

5 Click 

to add the selected camera channel to this group.

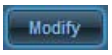
☺**Note:** Up to 20 groups can be added.

5.5 Modify Network Parameters of a Camera



1 Choose Set > Device management > Search.

2 Select a camera from the search result list.

3 Click 

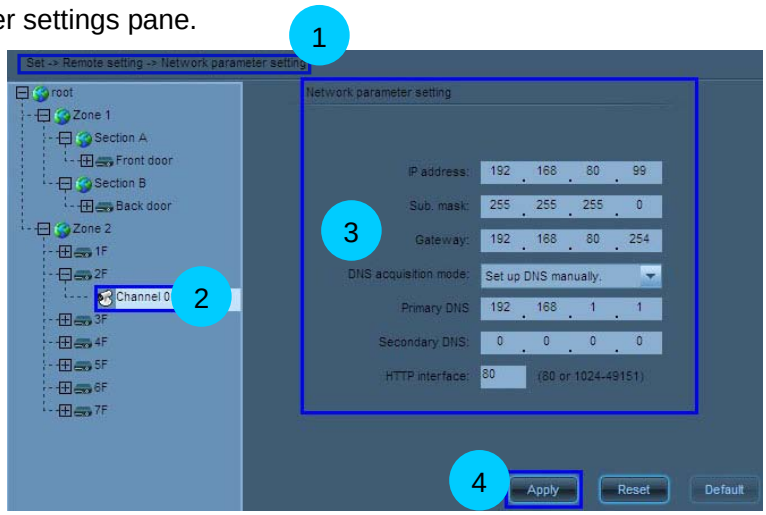
and then modify the remote device information of this camera.

4 Enter a correct admin password and click 

to save your settings.

Note: You can also modify network parameters of a camera in the following two methods.

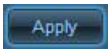
Method 1: Choose Set > Remote settings > Network parameter settings and perform setting in the Network parameter settings pane.



1 Choose Set > Remote settings > Network parameter settings.

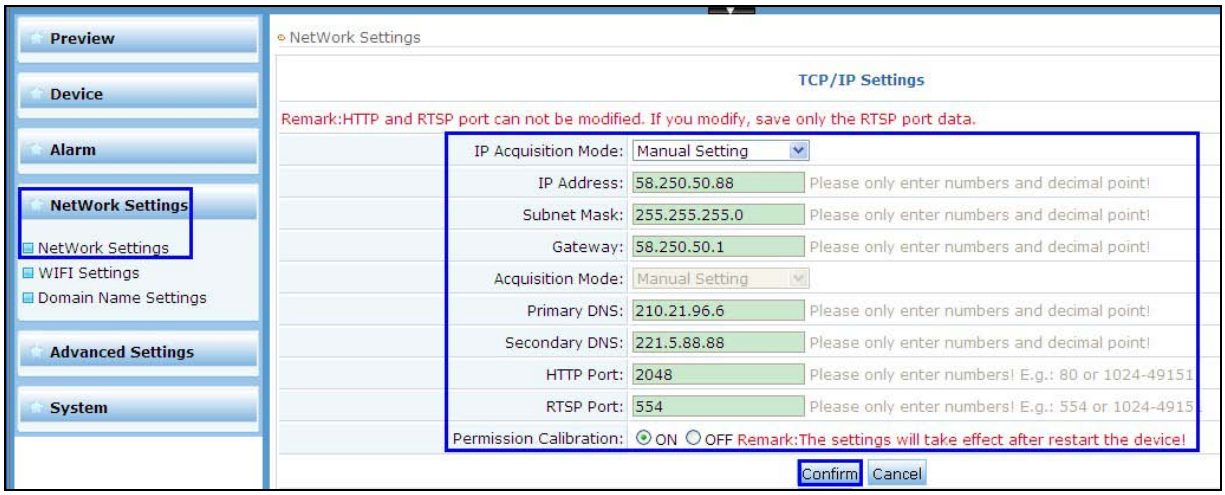
2 Double-click a camera channel in the device list.

3 Modify the network parameters of the camera, including the IP address, DNS acquisition mode, and DNS addresses.

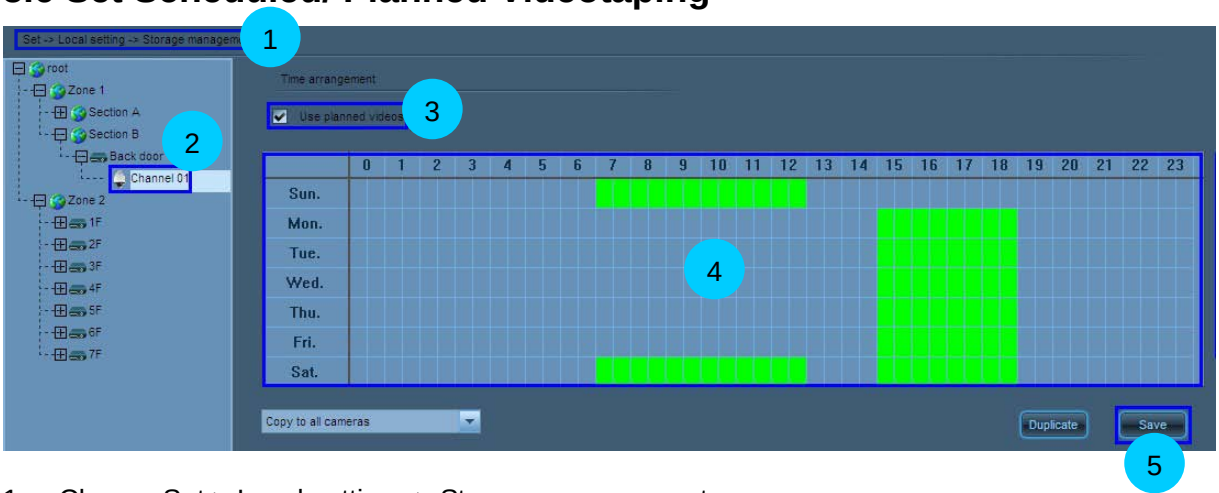
4 Click 

to apply your settings.

Method 2: Access a camera through browser and choose **Network settings** > **Network settings** to modify network parameters of the camera in the **Network settings** pane. For details, see Network Settings in the *User Manual--Using Browser for Video Surveillance* in the delivery-attached CD.



5.6 Set Scheduled/ Planned Videotaping



1 Choose Set > Local settings > Storage management.

2 Click a camera channel in the device list.

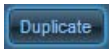
3 Tick off the **Use planned videos** option.

4 Press and hold the left mouse button and move the mouse to a desired direction to set a time segment for scheduled videotaping (0–23 indicates one day; unit: half an hour). To cancel the setting, move the mouse to an opposite direction.

5 Click 

to save your settings.

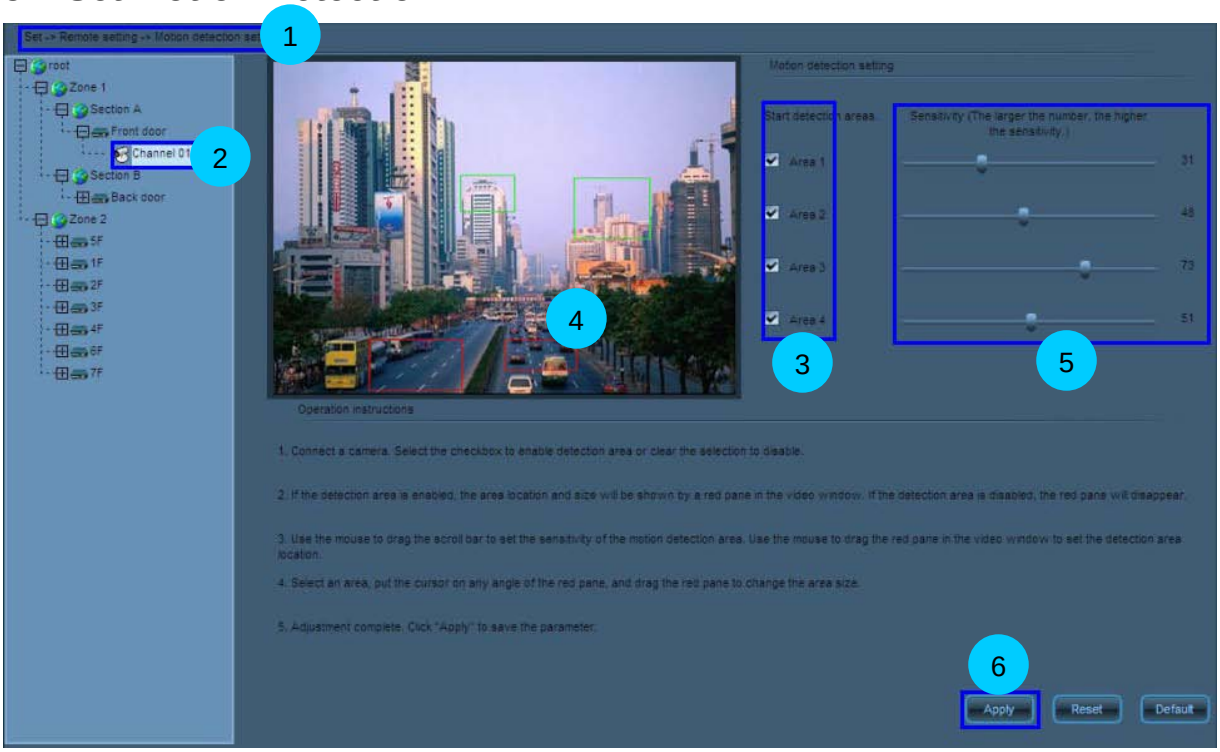
6 Deactivate scheduled videotaping: Clear the **Use planned videos** option and click **Save**, or clear green boxes in the schedule and click **Save**.

Note: To set the same videotaping time for all devices, you only need to set one of them and select **Copy to all cameras**. Then click 

and 

to save your settings. The schedule videotaping function is activated on all devices.

5.7 Set Motion Detection



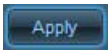
1 Choose Set > Remote settings > Motion detection settings.

2 Double-click a camera channel in the device list.

3 Select one or more areas for motion detection.

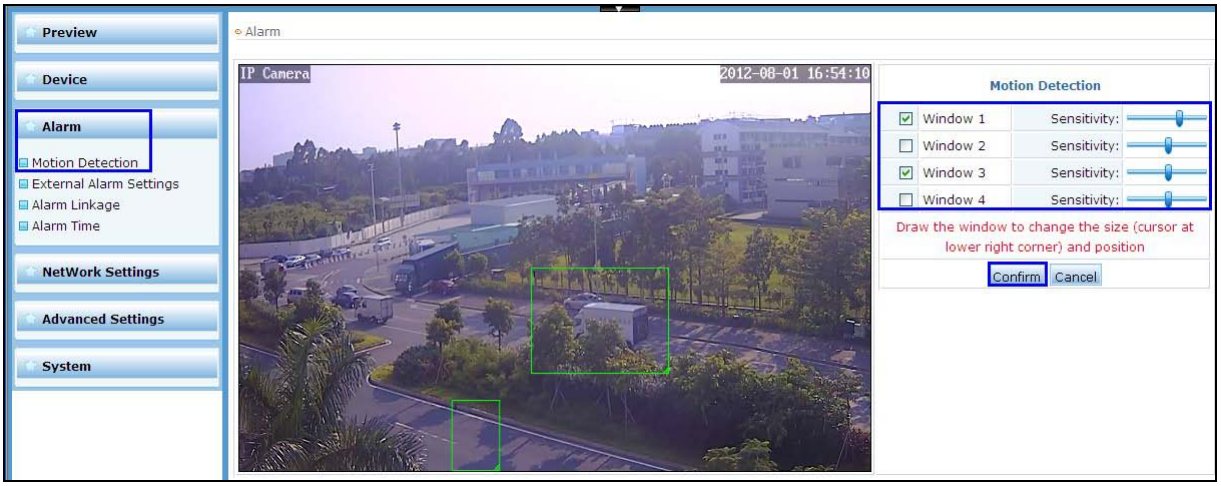
4 Set the locations and sizes of these areas.

5 Set the detection sensitivity of these areas.

6 Click 

to apply your settings.

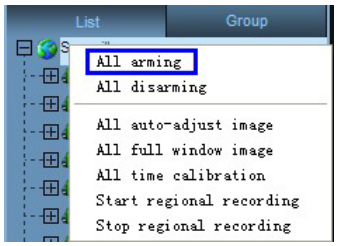
Note: You can also access a camera through BROWSER and choose **Alarm** > **Motion Detection** to set motion detection parameters. For details, see Motion Detection in the *User Manual--Using Browser for Video Surveillance* in the delivery-attached CD.

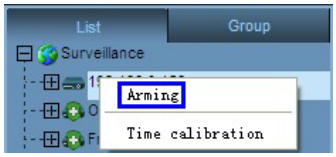


5.8 Enable Arming

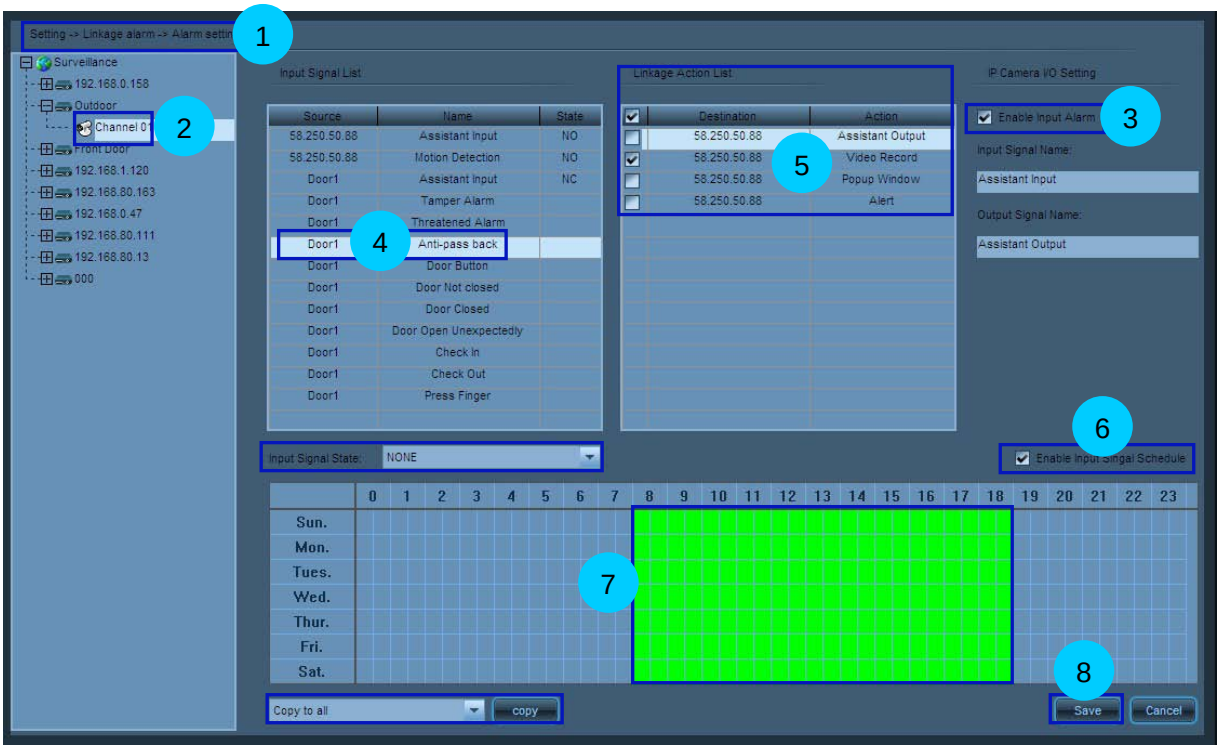
The alarm linkage of all signals will work only after the device (the camera) is armed. If the device is disarmed, it cannot produce alarm linkage.

Enter Preview interface, right click on the area name in the device list, and choose **All Arming** in the fuction menu to enable all alarm linkage of all devices in this area. Right click on the device name in the device list, and choose **Arming** in the fuction menu to enable all alarm linkage of all channels in this device.





5.9 Set Alarm Linkage



1 Access the **Setup** --> **Alarm Linkage** --> **Alarm Setup** page.

2 Double-click on the device list the camera channel for which alarm linkage is to be set. When the connection is successful, the input-output signals of the associated alarm will be displayed on the list.

3 Click **Enable alarm input** to start using alarm input signals.

4 Click to select alarm input signals on the input signal list.

5 Tick linkage actions on the linkage action list. You can select more than one.

6 Tick **Enable input signal setting** to start setting the time for input signal alarm linkage.

7 Press the left mouse button and drag the cursor to set the time period for input signal alarm linkage (0 ~ 23 indicates a day, with half an hour as the unit). If you want to cancel it, you can drag the cursor again.

8 Click **Save** to save the setting.

9 Set the storage location and time length for the alarm linkage video.

9.1 Access the **Settings** --> **Local Settings** --> **Storage Management** interface to set alarm linkage video.

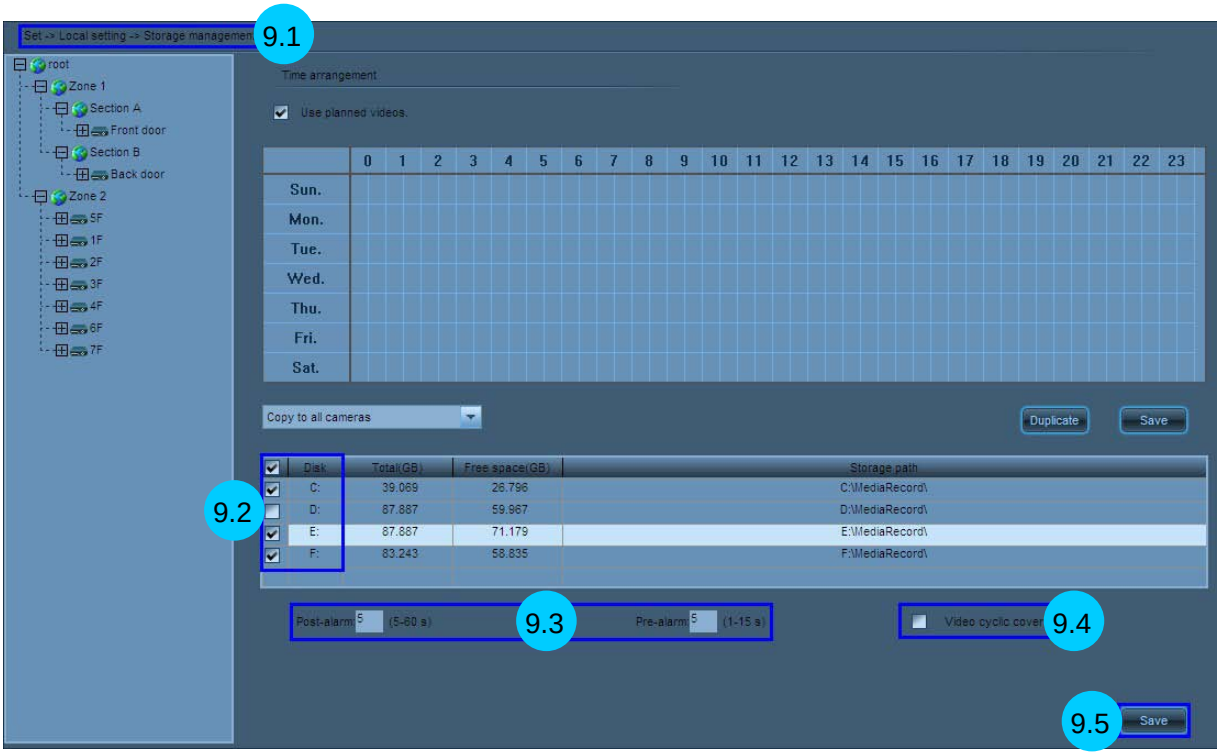
9.2 Tick the storage location for the video (After the installation, the software will automatically detect the hard disks of the computer and display them on the list).

9.3 Set alarm video: the lasting time of the alarm and the time for pre-recording an alarm.

9.4 If you tick **Video Cyclic Cover**, then when all the space of the disk is occupied, the earlier 5G video file will be deleted. If you cancel the tick, then when the disk is full, the video recording will stop.

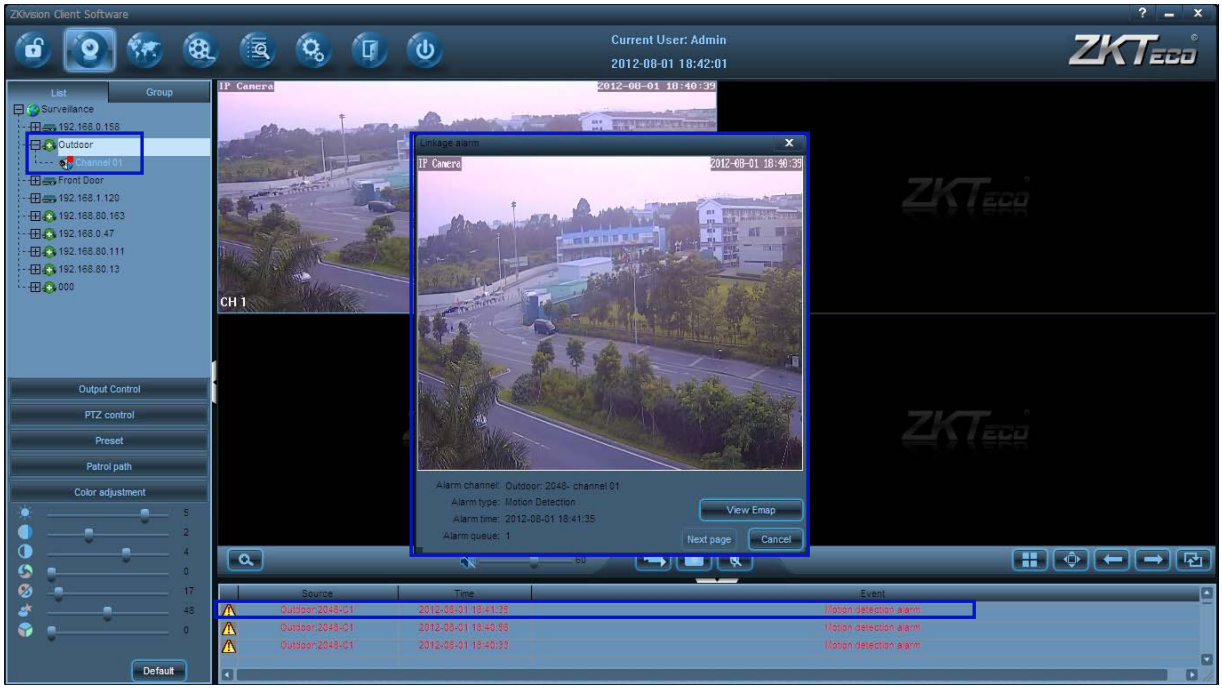
9.5 Click **Save** to save the setting.

10 You can select other camera channels and click **Copy** to copy the alarm linkage setting to other cameras.



Note: After arming, an alarm will trigger the alarm linkage options.

Pop up video window :

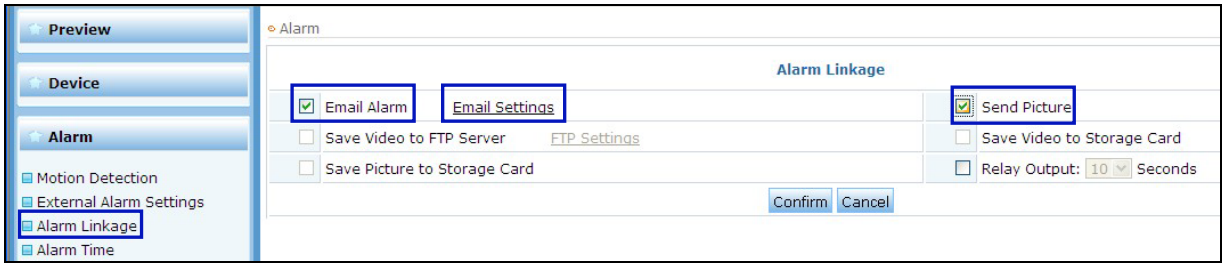


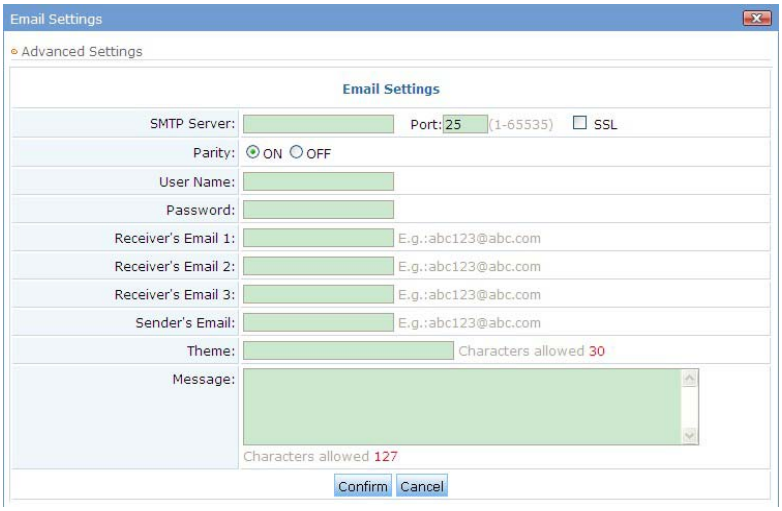
Linkage video alarm:

5.10 Set Email Alarm Linkage

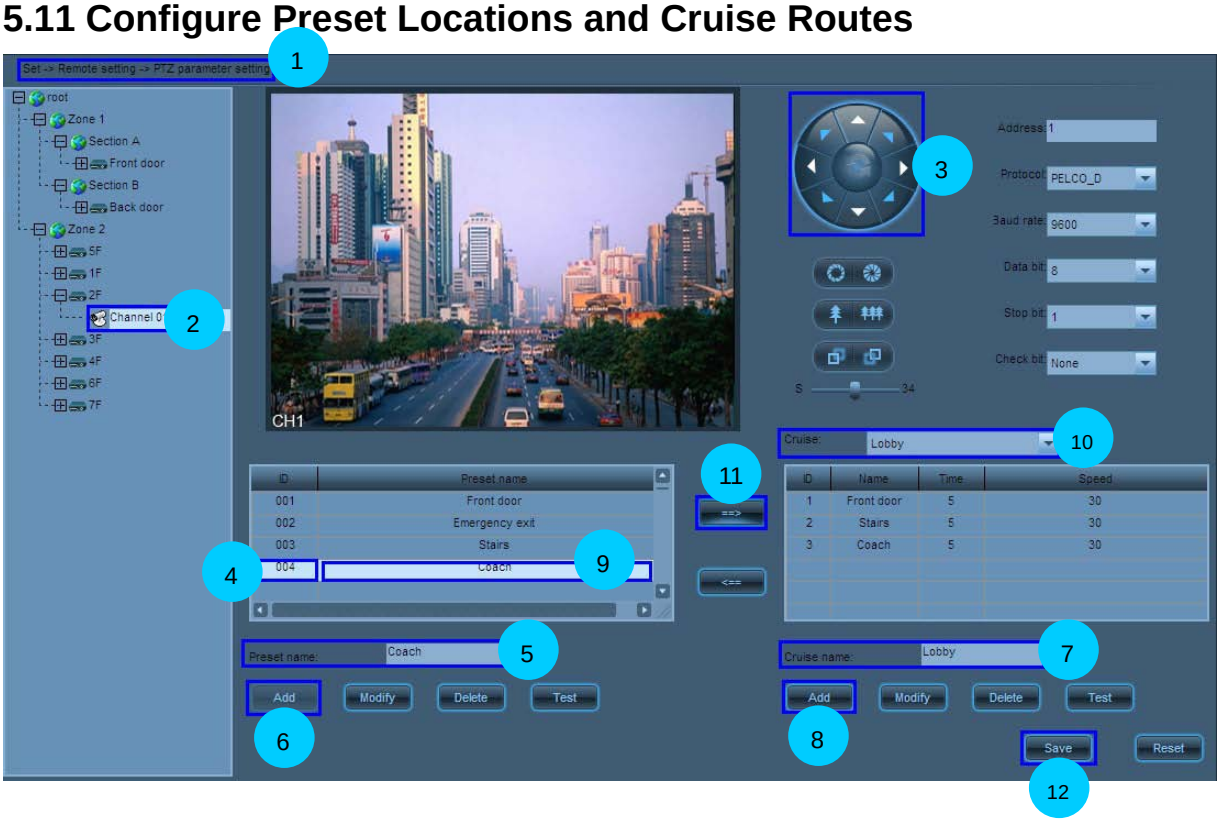
To send an alarm email or picture to a specified mailbox in the case of an alarm, gain access to a camera through BROWSER and choose **Alarm** > **Alarm Linkage**. In the **Alarm Linkage** pane,

select the **Email alarm** option and perform email settings. For details, see Set Email Alarm Linkage in the *User Manual--Using Browser for Video Surveillance* in the delivery-attached CD.





5.11 Configure Preset Locations and Cruise Routes



1 Choose Set > Remote settings > PTZ parameter settings.

2 Double-click a camera channel in the device list.

3 Adjust the camera to the desired location.

4 Select the ID of a preset location.

5 Set the name of the preset location.

6 Click Add to add the preset location.

7 Set the name of a cruise route.

8 Click Add to add the cruise route.

9 Click a preset location in the preset location list.

10 Select a cruise route from the **Cruise route** drop-down list.

11 Click ==> to add the preset location to this cruise route.

12 Click Save to save your settings.

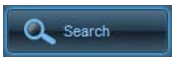
5.12 Search and Playback Videos by Date

1 Click to enter **Playback** interface.

2 Select devices based on date type.

3 Select a video type from the drop-down list.

4 Select a date.

5 Click 

to search for videos and the search results are displayed on the Timeline panel.

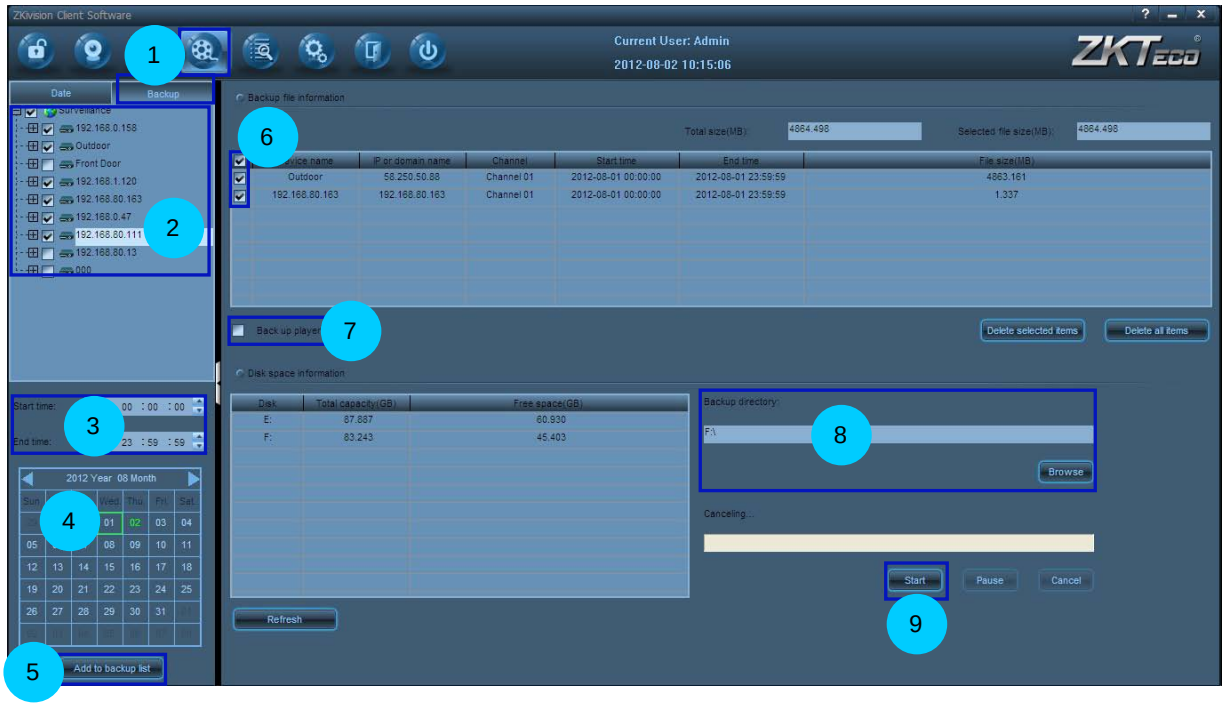
6 Click on the Timeline panel as the start point for playback.

7 Click  to start playing back videos.

Note: 1. A maximum of four channels can be selected for video search and playback by date.

2. When replaying a video, the replay will be stopped if changing the page.

5.13 Back Up Videos

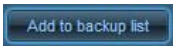


1. Enter **Playback** interface and click “Backup” to enter the page of video backup.

2. Tick the cameras for video search.

3. Set the specific period.

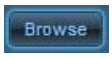
4. Select the date

5. Click 

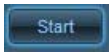
to add the searched videos to the backup list.

6. Tick the videos to be backed up.

7. Select whether to back up the media player.

8. Click the button 

to set the path of backup.

9. Click the button 

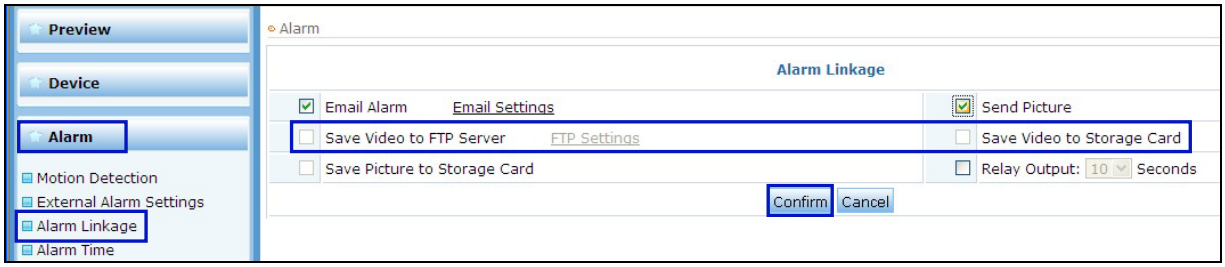
to start the video backup.

Notes: 1. The total files to be backed up should not be larger than 8G every time.

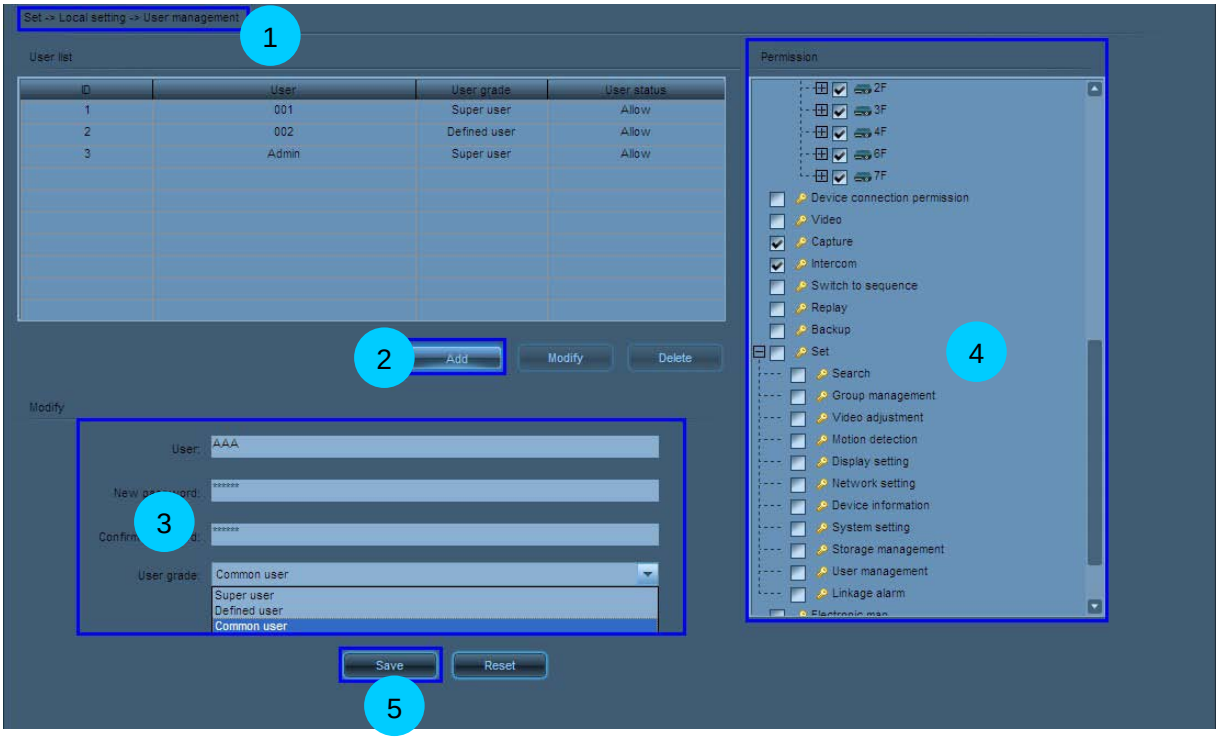
2. The path of backup should be neither the system disk, e.g. disk C, nor the video storage disk.

3. You can also access a camera through BROWSER and choose **Alarm** > **Linkage alarm** and select the **Save Video to Storage Card** option to back up the video to a storage card or select the **Save Video FTP Server** option to back up the video to

an FTP server and a storage card concurrently. For details, see Alarm Linkage in the *User Manual--Using Browser for Video Surveillance* in the delivery-attached CD.



5.14 Create a New User



1 Choose Set > Local settings > User management.

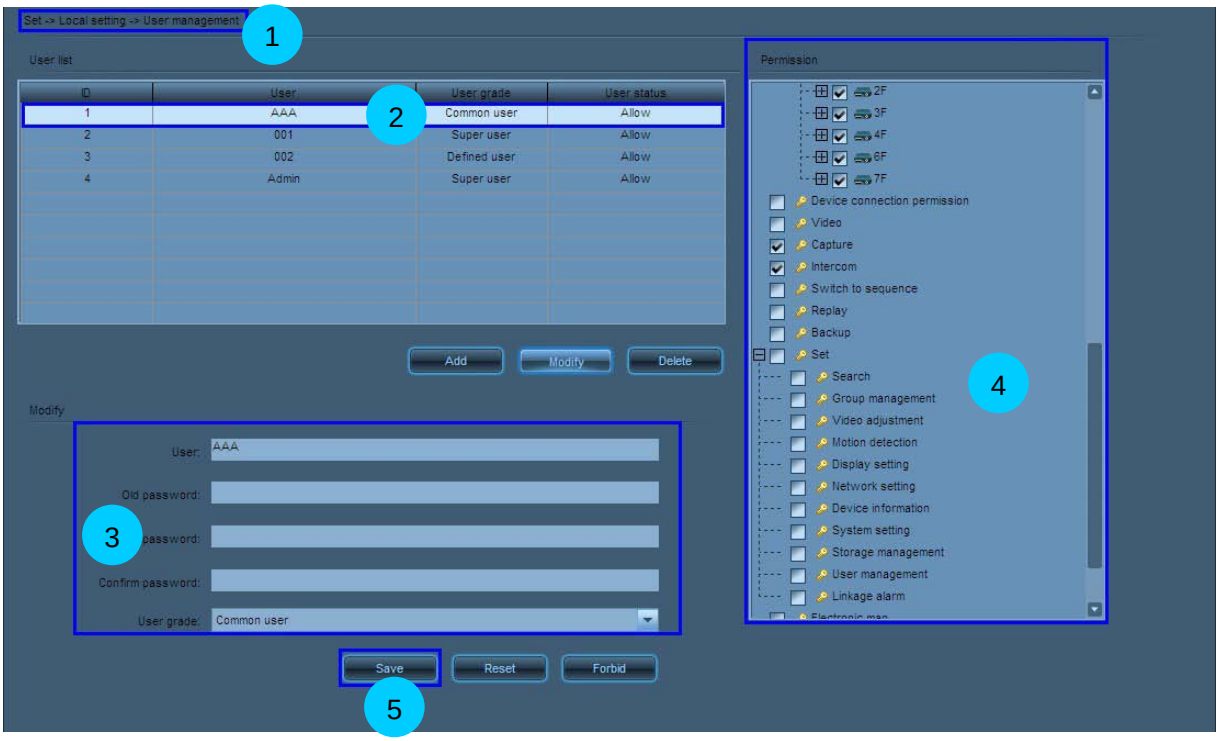
2 Click Add.

3 Set a user name, a password, and a user level.

4 Set the user authority.

5 Click Add to save the profile of the new user.

5.15 Modify User Information or Authority



1 Choose Set > Local settings > User management.

2 Select a user from the user list, and the user state automatically shifts to a modification state.

3 Modify the user name, password, and user level.

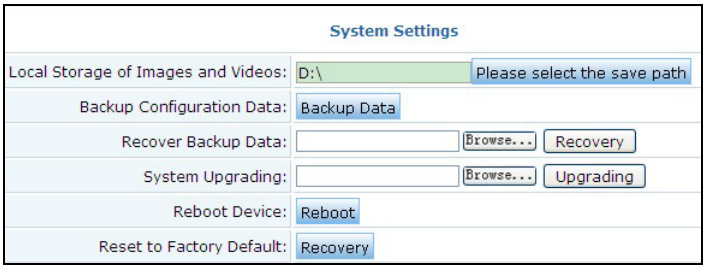
4 Modify the user authority.

5 Click 

to save the modified user profile.

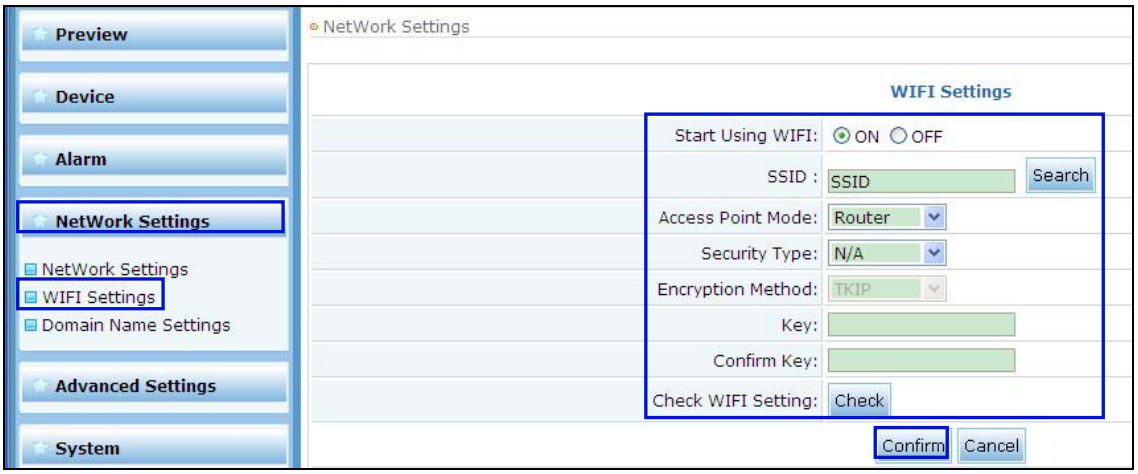
5.16 Back Up and Recover Configuration Data

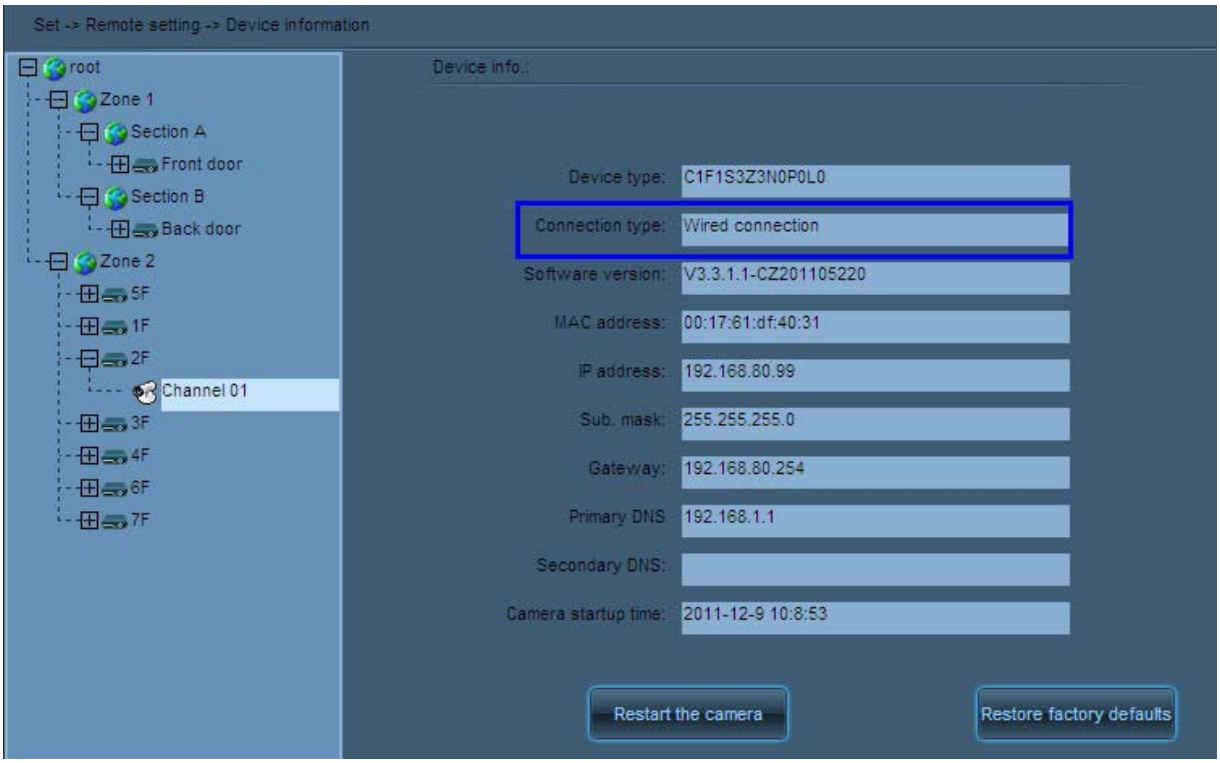
To back up or recover configuration data, access to a camera through browser and choose **System** > **System Settings** to perform system settings. For details, see System Settings in the *User Manual--Using Browser for Video Surveillance* in the delivery-attached CD.



5.17 Set Wireless Network

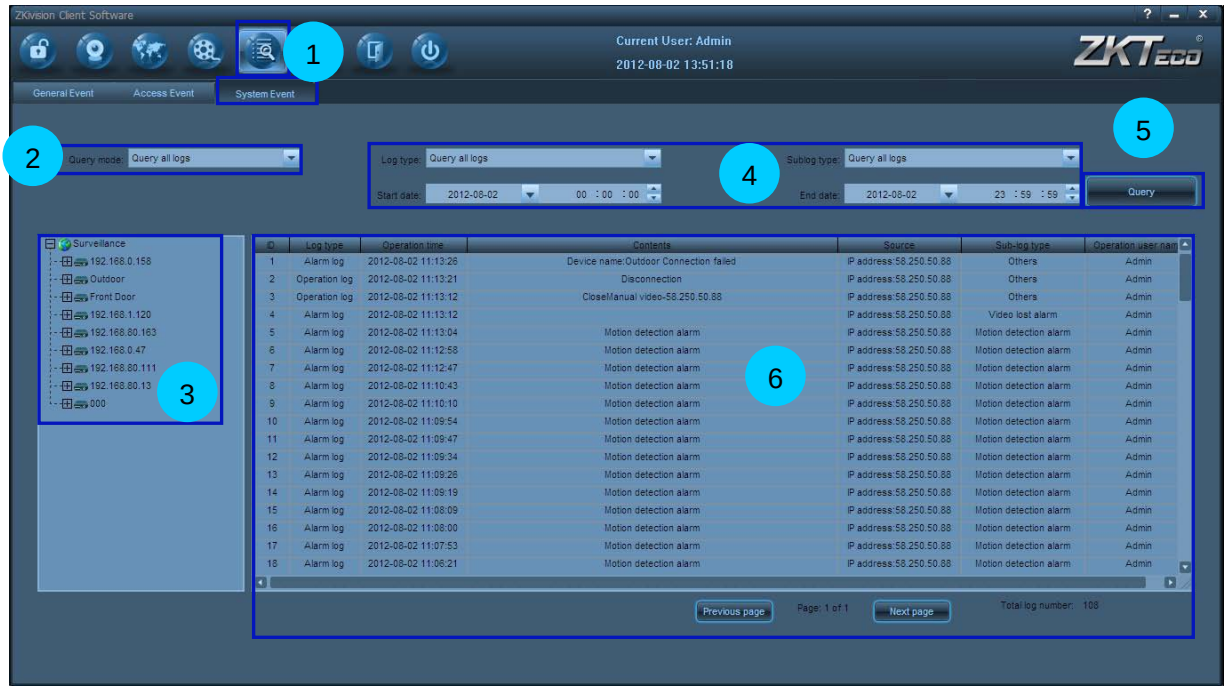
To enable wireless connection to a camera, access to the camera through browser and choose **Network settings** > **WIFI Settings** and perform WIFI settings. For details, see WIFI Settings in the *User Manual--Using Browser for Video Surveillance* in the delivery-attached CD.

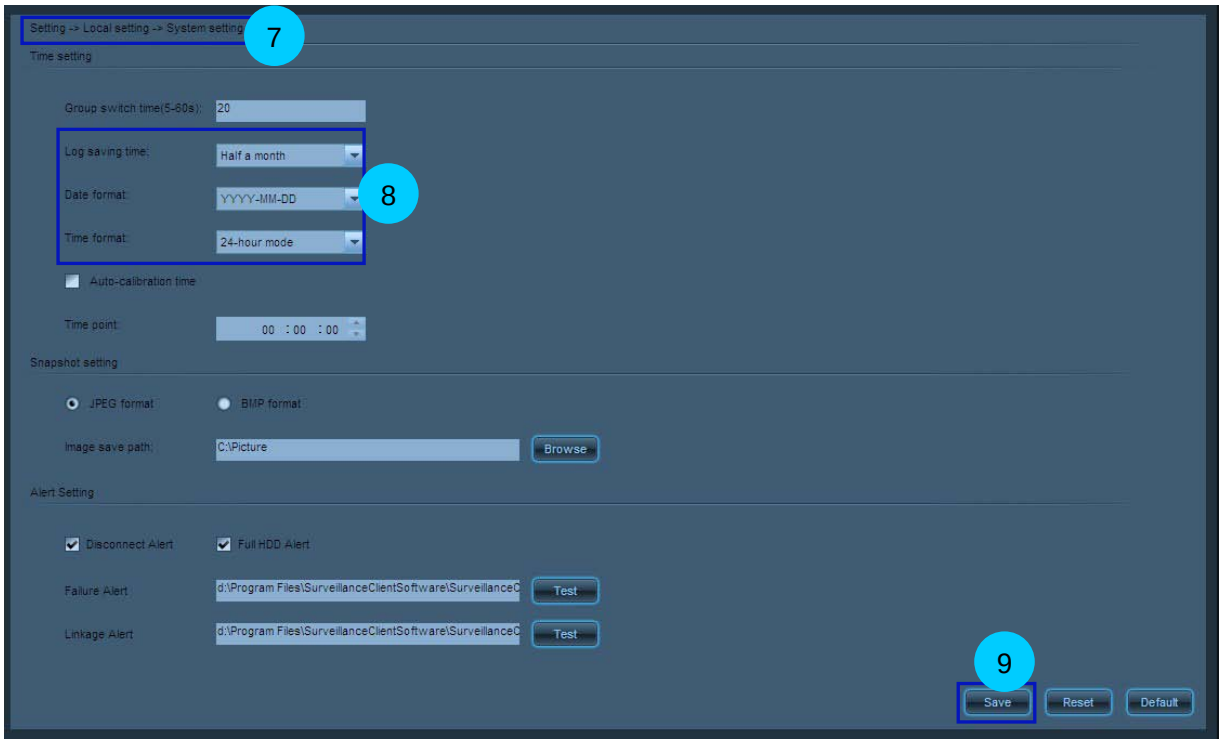




Choose **Set** > **Remote settings** > **Device information View** and you can view important device information of the camera. When wireless connection is enabled, the **Network Connection Type** is **Wireless Connection**.

5.18 Search for System Logs



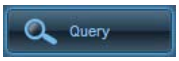


1 Click the  button.

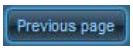
2 Select a data type.

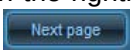
3 Select the log type, sublog type, start date and end date.

4 Select a camera channel or a user.

5 Click 

to query the logs of a specified type within the defined time period.

6 Query results are displayed in the log list. Drag the scroll bar on the rightmost side or at the bottom of the interface to view the details. Click 

or 

to view the query results on the previous or next page.

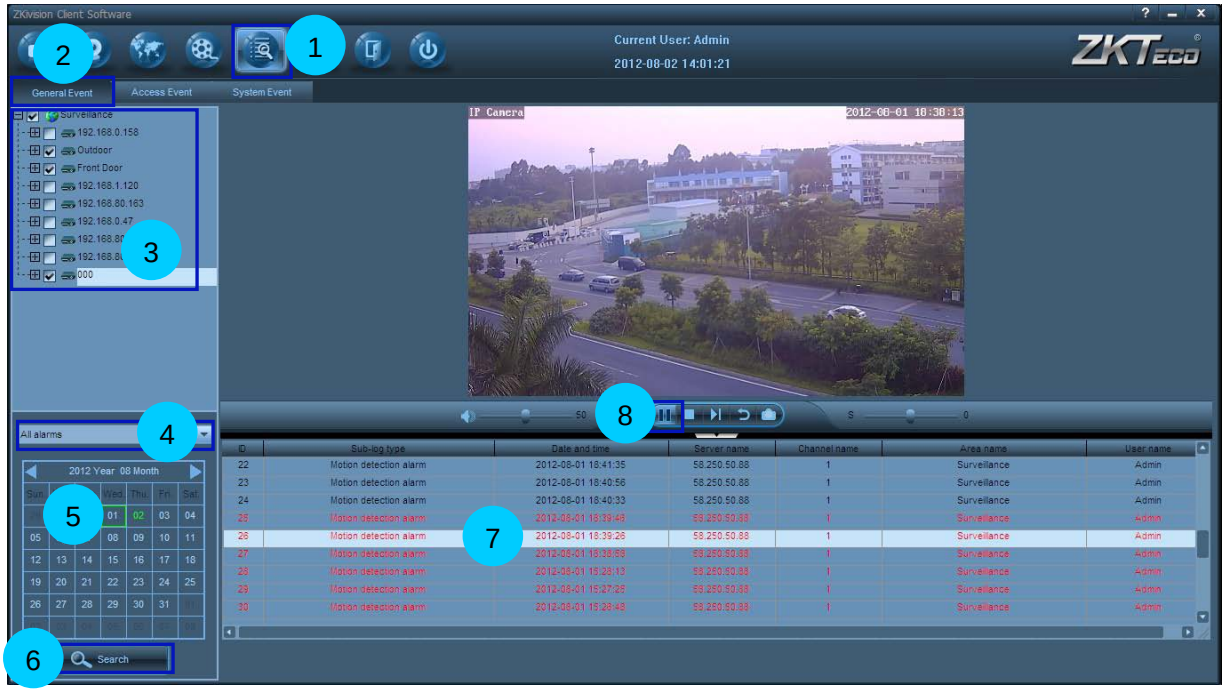
7 To modify the log saving time, date format, or time format, choose **Set** > **Local settings** > **System settings**.

8 In the **Time settings** pane, modify the log saving time, date format, or time format.

9 Click 

to save your settings.

5.19 Playback Associated Videos Through Alarm Logs



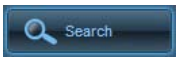
1 Click the  button.

2 Click the **Alarm** tab to search for videos based on alarm type.

3 Select the camera channels for query.

4 Select an alarm type.

5 Select a date.

6 Click 

to find out the alarm logs on that date. Query results are be displayed in the log list.

7 Select one of the alarm logs in the log list.

8 Click  to play the associated videos of this alarm log.

Note: The video playback will stop if you change the page.

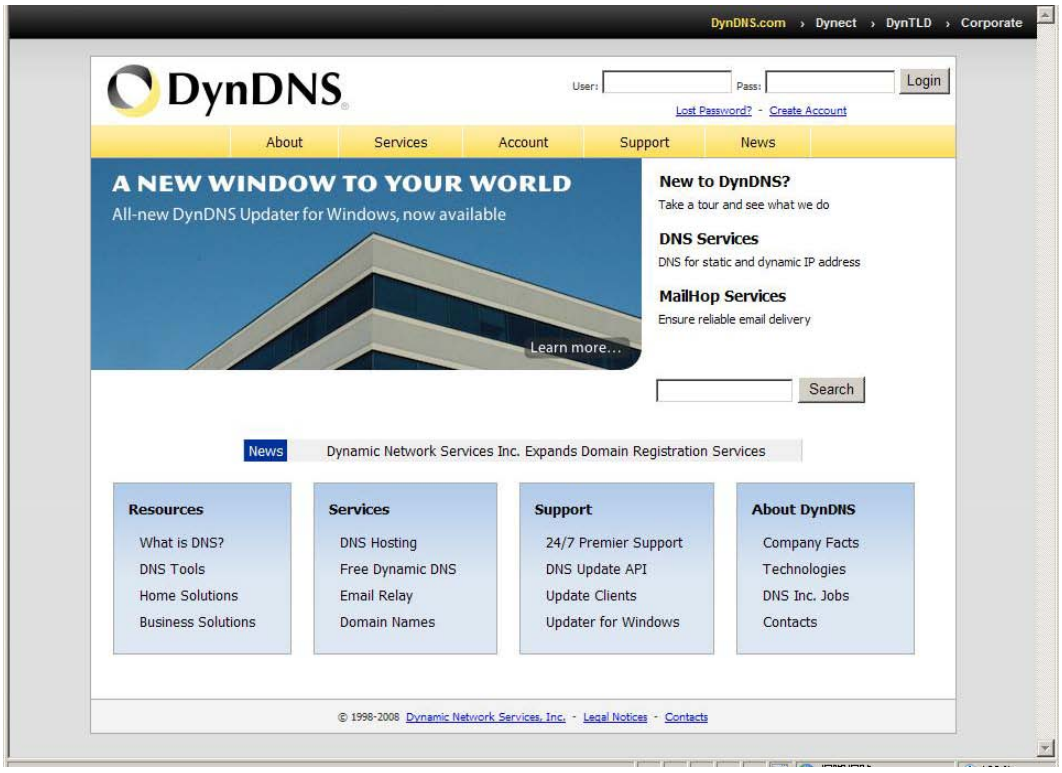
5.20 Apply for and Use a Dynamic Domain Name for visiting IPC on Internet

If it is necessary to visit a camera on the internet, set the dynamic domain name of the camera and enable the port mapping on the corresponding router. Firstly, there must be a router with DDNS (Dynamic Domain Name Service). The following is an example of TP-Link router.

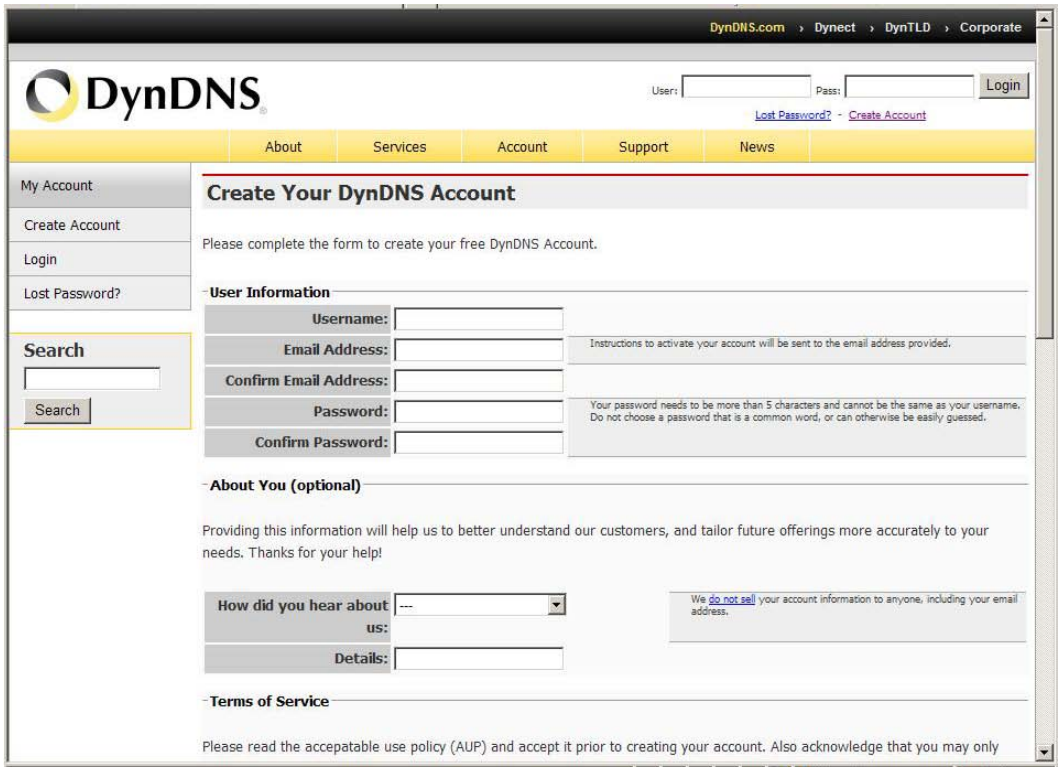
A Apply the dynamic domain username and host name for the camera.

Currently our company's IPC supports the dynamic domain name by Dyndns.org, 3322.org and Dynddns.us. Before applying the dynamic domain name, register an email address to receive the verification email. For example, the application for a Dyndns dynamic domain names is in the following procedure:

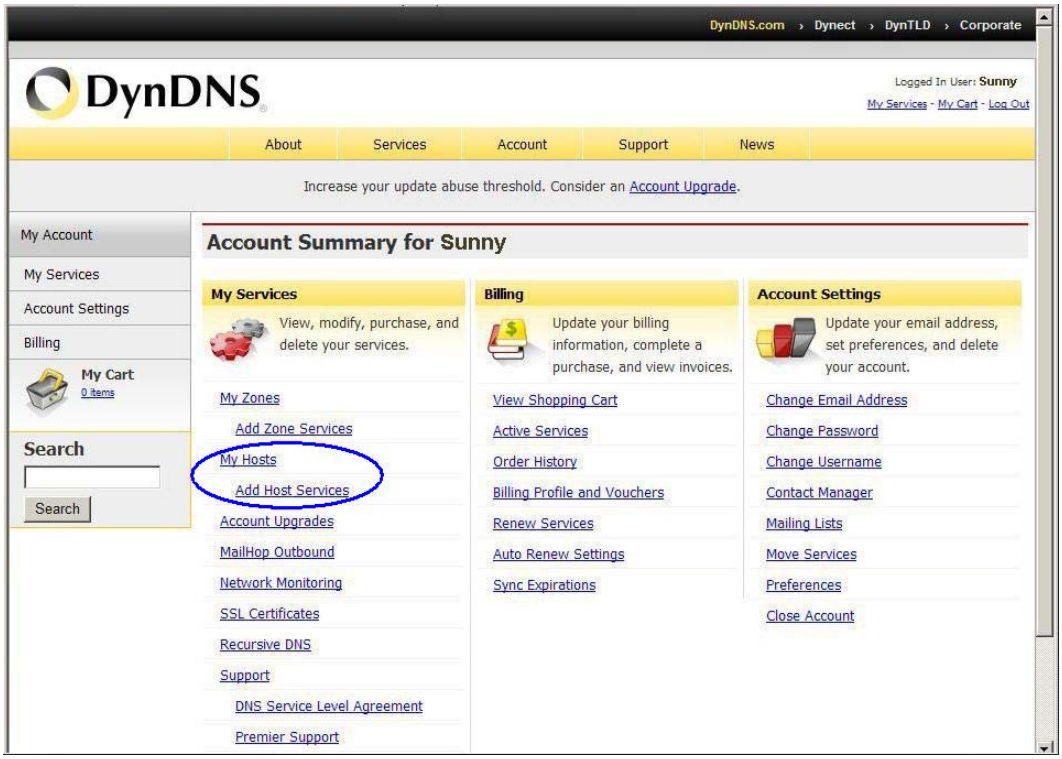
1. Log in http://www.dyndns.org, click the "**Create Account"**.



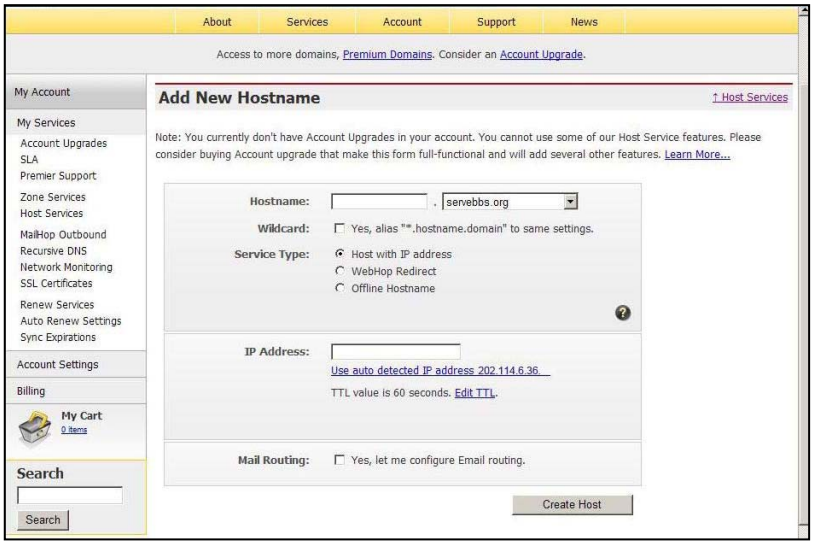
2. Input all information and follow step by step with DynDNS.



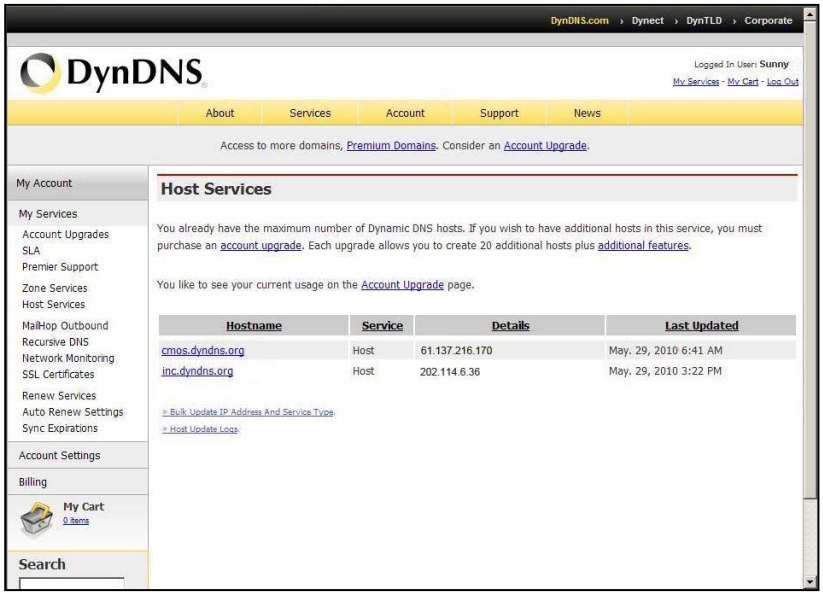
3. Log in with new account and click "**Account → My Hosts → Add Host Services**".



4. Type domain in the Hostname field and select sub-domain.

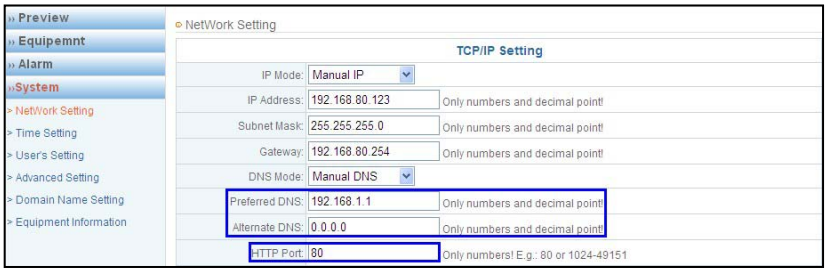


5. After typing in information, check your DDNS service.

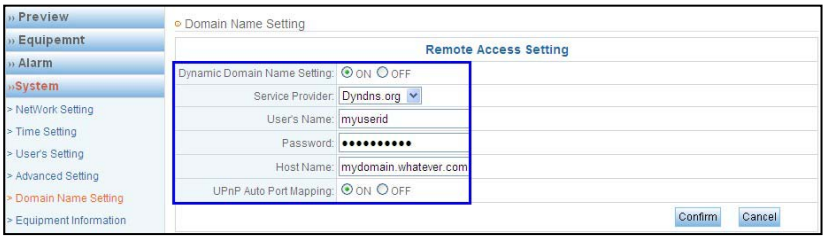


B Visit and configure the camera through browser.

1. Enter “System”--“Network Setting”, fill the correct LAN gateway and HTTP port. The DNS and port settings of the router are used here.

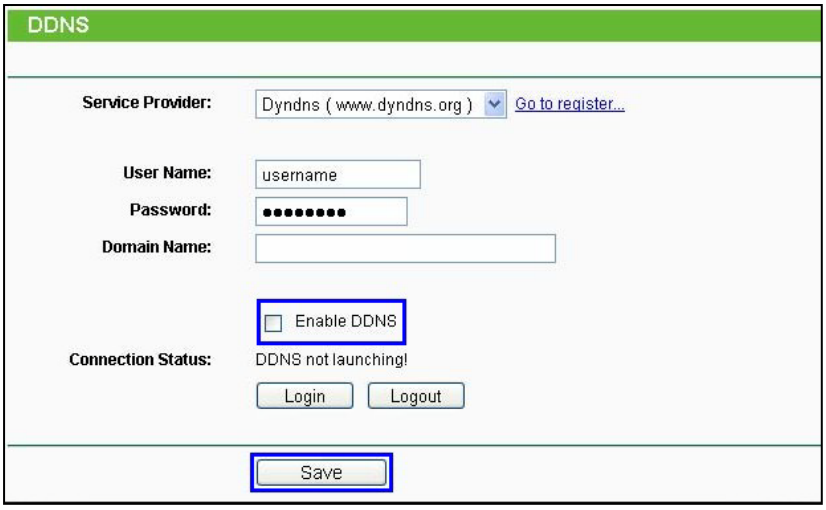


2. Enter “System”--“Domain Name Setting”, and configure the domain name of the camera.

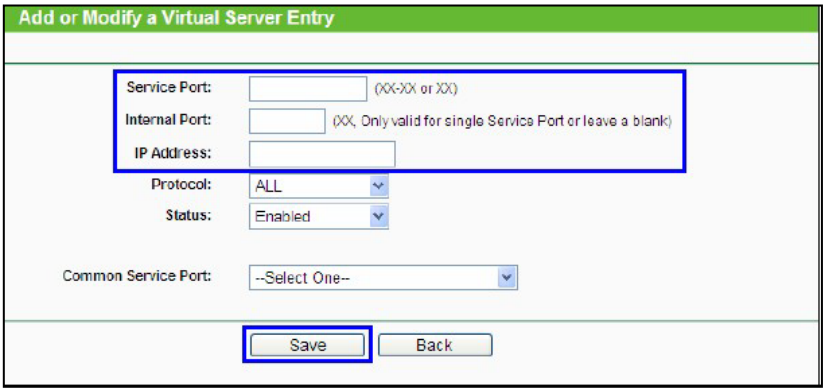


C Login and configure the router

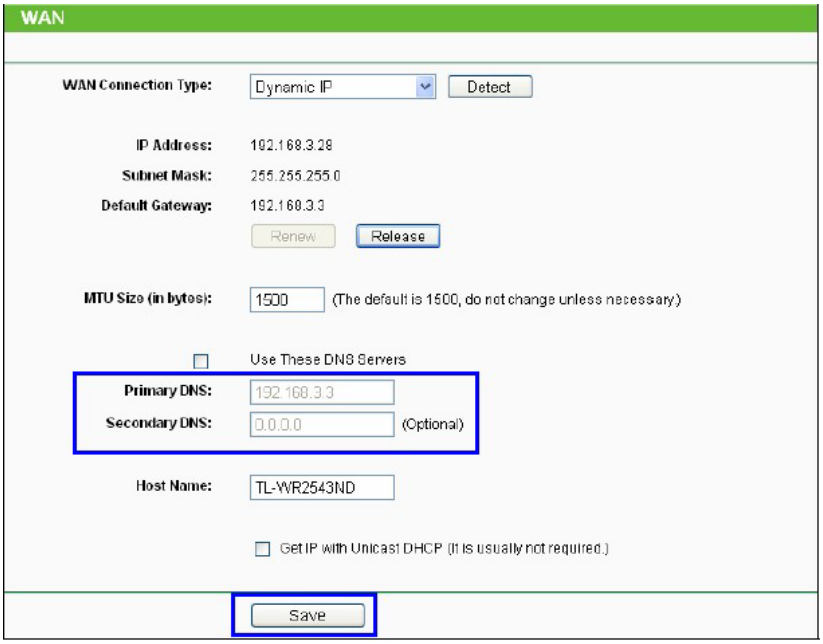
1. Enter the “Dynamic DNS” setting of the router, set and enable the DDNS.



2. Port Mapping: Enter “Forward Rules”--“Virtual Server Setting”, click “Add a new link”, add the IP address of the IPC in LAN and the corresponding port number, and enable the function. The port setting of the camera is used here.

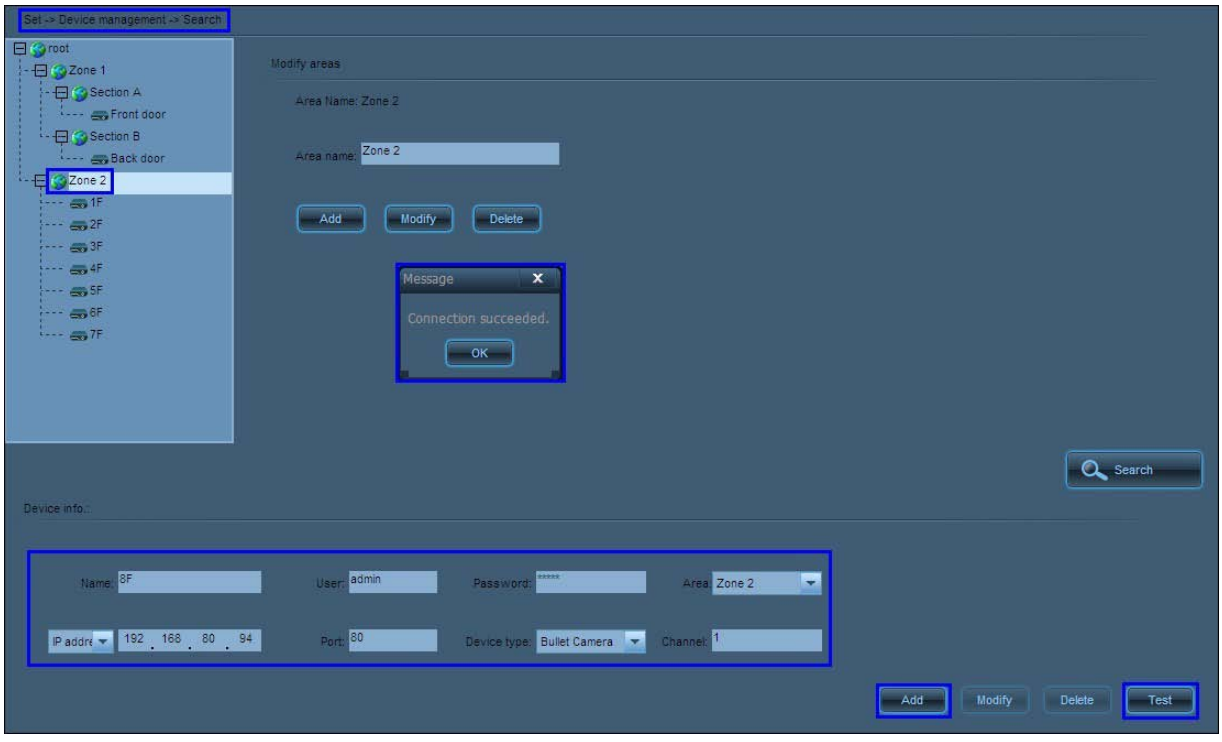


3. Configure DNS address: Enter “Network Parameters”--“WAN Port Setting” and manually set the DNS address of the router. The DNS setting of the camera is used here.

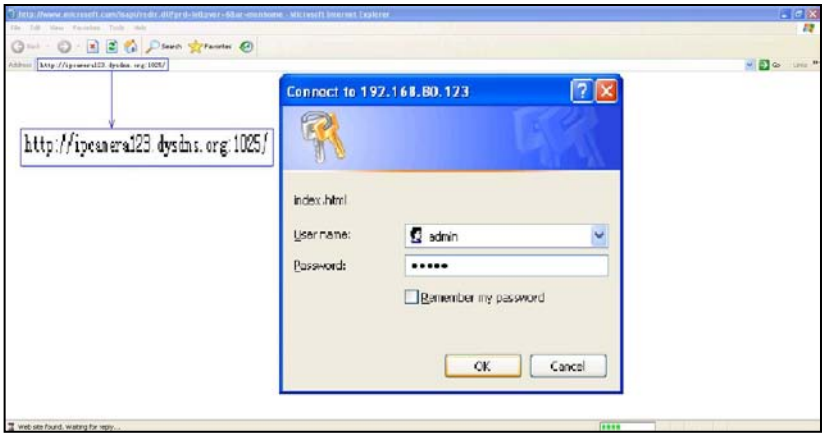


D Use the domain name to check whether can visit the IP camera on internet.

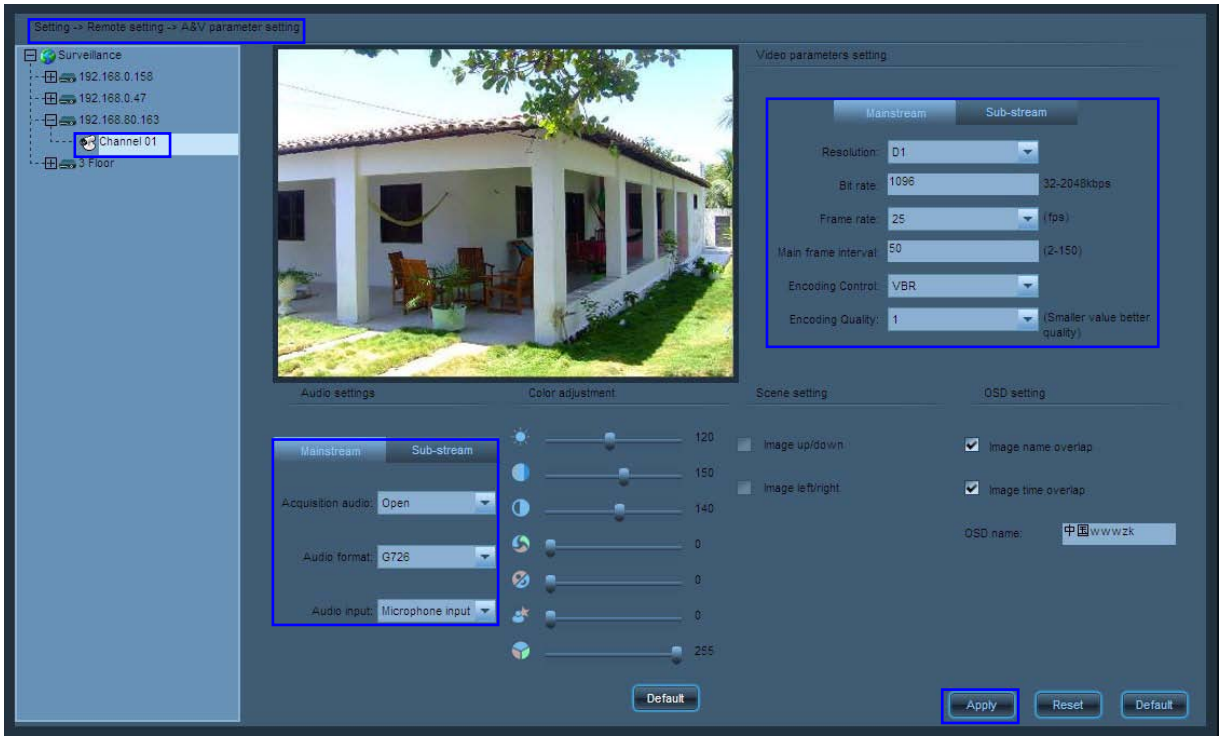
Choose **Set** > **Device management** > **Search**. Click to choose a parent area, manually add this IP camera to the system. Click Test, then the "Connection succeeded" dialog window pops up.



Or type in “http://domain name: port number” in the address bar of browser, e.g. “http://ipcamera123.dysdns.org:1025”, and log in the system to browse the videos of the IPC.



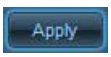
5.21 Set Audio and Video Parameters Appropriate for Your Network



1 Choose Set > Remote settings > A&V parameter settings.

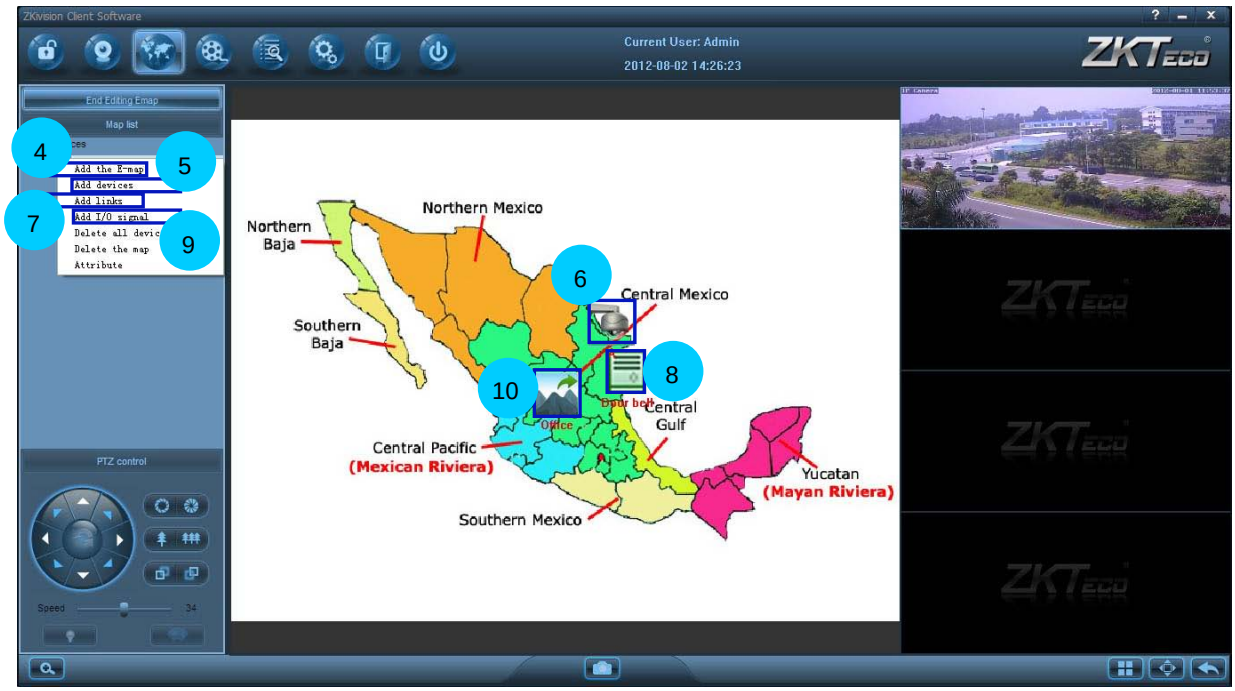
2 Double-click a camera channel in the device list.

3 Set audio and video parameters. See 4.6.3 Audio and Video Parameters settings.

4 Click 

to apply your settings.

5.22 How to Set E-map



1. Access the **E-Map** tag page.
2. Click **Edit E-Map** to access the map editing page.
3. Click the right mouse button on the map list and choose **Add** to add e-maps.

4. If you want to add multi-level scenario maps, first choose the upper level map on the map list, and right click to choose **Add E-map**. Then set the attributes for the map that you want to add.
5. If you want to deploy a camera on the map, first choose the map on the map list, and right click to choose **Add devices**. Then set the attributes for the device that you want to add.
6. Or you can right click the map on the map display window and choose **Add devices**.
7. Drag the mouse cursor to the device icon, press the left button and drag the device icon to where you want to place it.
8. If you want to add link on the map, first choose the map on the map list, and right click to choose **Add link**. Then set the attributes for the link that you want to add.

   Or you can right click the map on the map display window and choose **Add link**.
9. Drag the mouse cursor to the link icon, press the left button and drag the link icon to where you want to place it.
10. If you want to add input-output signals on the map, first choose the map on the map list, and right click to choose **Add I/O Signals**. Then set the attributes for the input-output signals that you want to add
11. Or you can right click the map on the map display window and choose **Add I/O Signals**.
12. Drag the mouse cursor to the signal icon, press the left button and drag the signal icon to where you want to place it.
13. Click **End Editing E-map** to exit map editing.
14. After the device is armed, when an external alarm signal comes in, the input signal icon will blink. After confirming the alarm on site, the security guard can right click the icon to confirm the alarm and then the icon will stop blinking.
15. You can access the linked e-map by clicking the link icon on the map.
16. You can double-click the device icon or drag the icon to the video play window to play the video in real time.
17. You can control the output by double-clicking the output signal icon on the map.

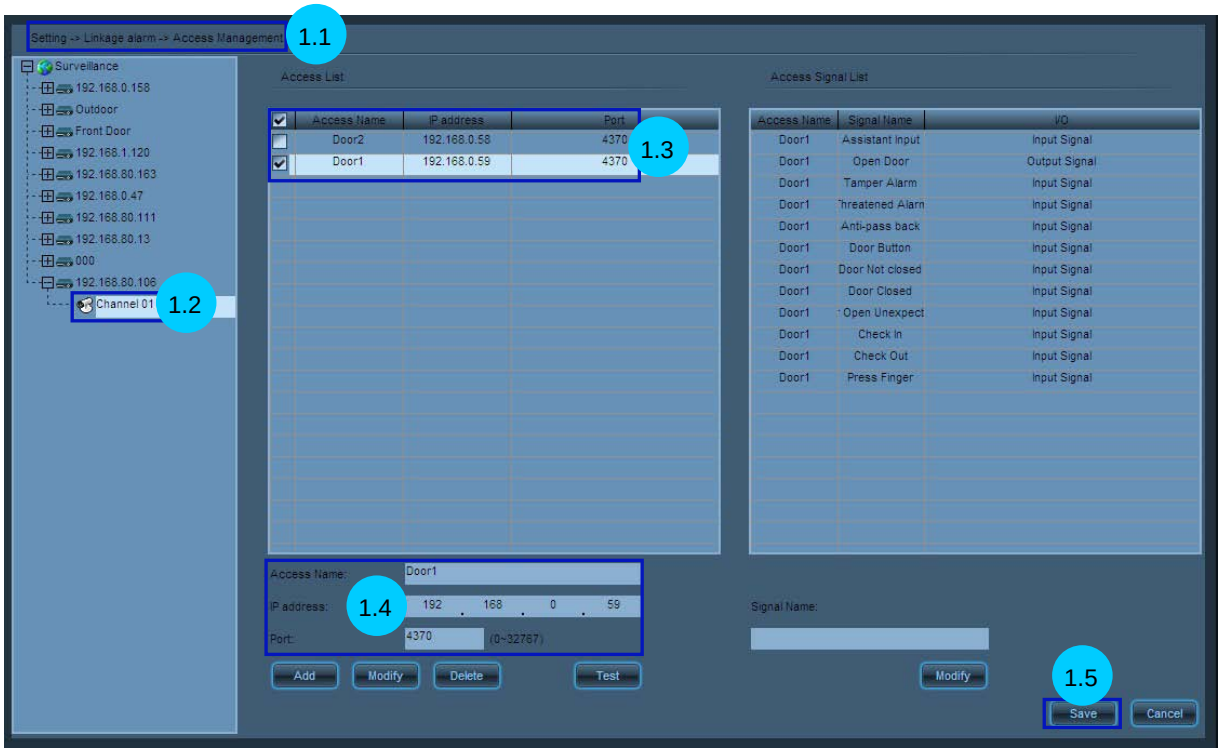
 Notes:

1. The alarm linkage of all signals will work only after the device (the camera) is armed. If the device is disarmed, it cannot produce alarm linkage. For arming the device, see Enable Arming.

2. For setting signal alarm linkage, see Set Alarm Linkage.

3. For associating the IP camera with the access controller, see 5.23 How to Set and Apply the Association of the IP Camera with the Access Controller.

5.23 How to Set and Apply the Association of the IP Camera with the Access Controller



1. Set the association of the camera with the access controller.

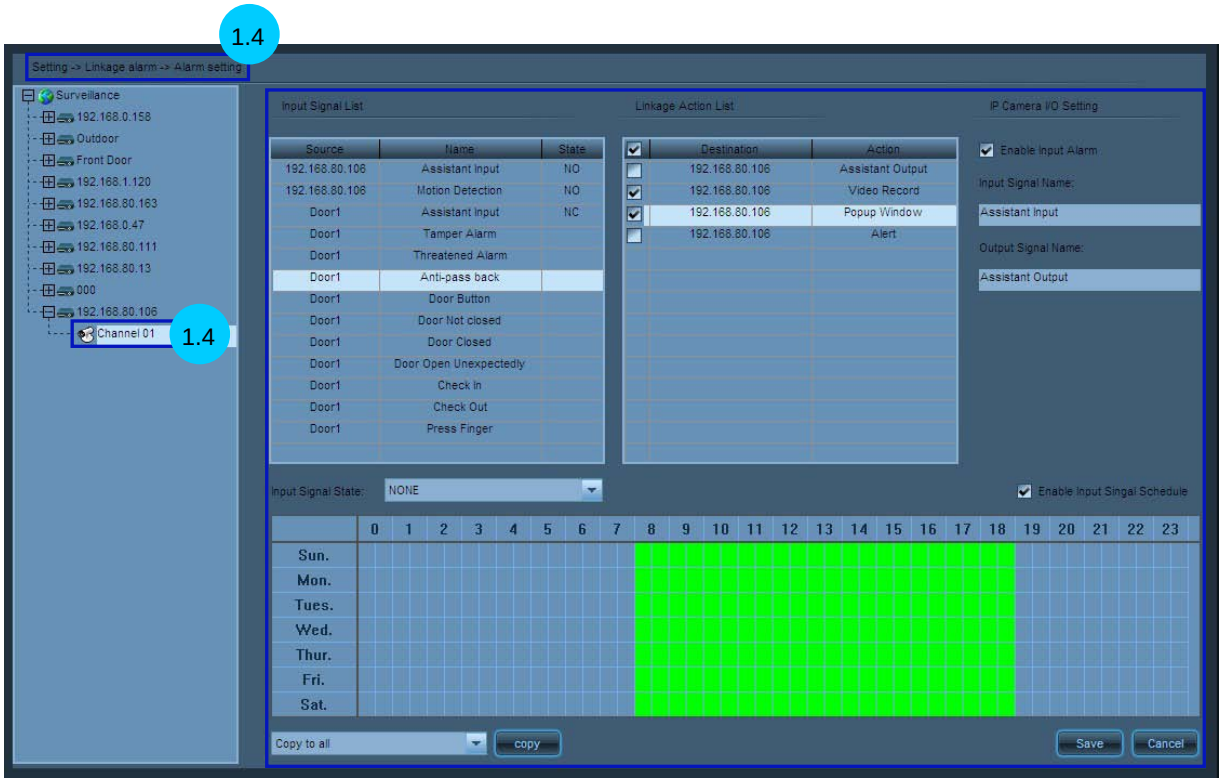
   1.1 Access the **Settings** --> **Linkage Alarm** --> **Access Management** interface.

   1.2 Manually add the access controller to the system. When adding succeeds, the access controller will be displayed on the access controller list.(You can click **Test** to check whether the access controller is successfully connected)

   1.3 Double-click the camera channel to be associated with on the device tree to connect the camera.

   1.4 Tick the access controller to be associated with on the access controller list. You may select more than one access controller.

   1.5 Click **Save** to save the setting and finish associating the camera with the access controller.



2. Set door controller event alarm linkage.

   2.1 Access the **Setup** --> **Alarm Linkage** --> **Alarm Setup** page.

   2.2 Double-click the camera associated with the door controller. When the connection is successful, set the alarm linkage items for door controller events. For details, see5.9How to Set Alarm Linkage.

   2.3 Click Preview to start arming the device. For details, see Enable Arming.

3. You can implement video surveillance on the **Preview** page. If there is a door controller input signal, the system will perform linkage actions such as video recording and opening the door according to the alarm linkage settings.

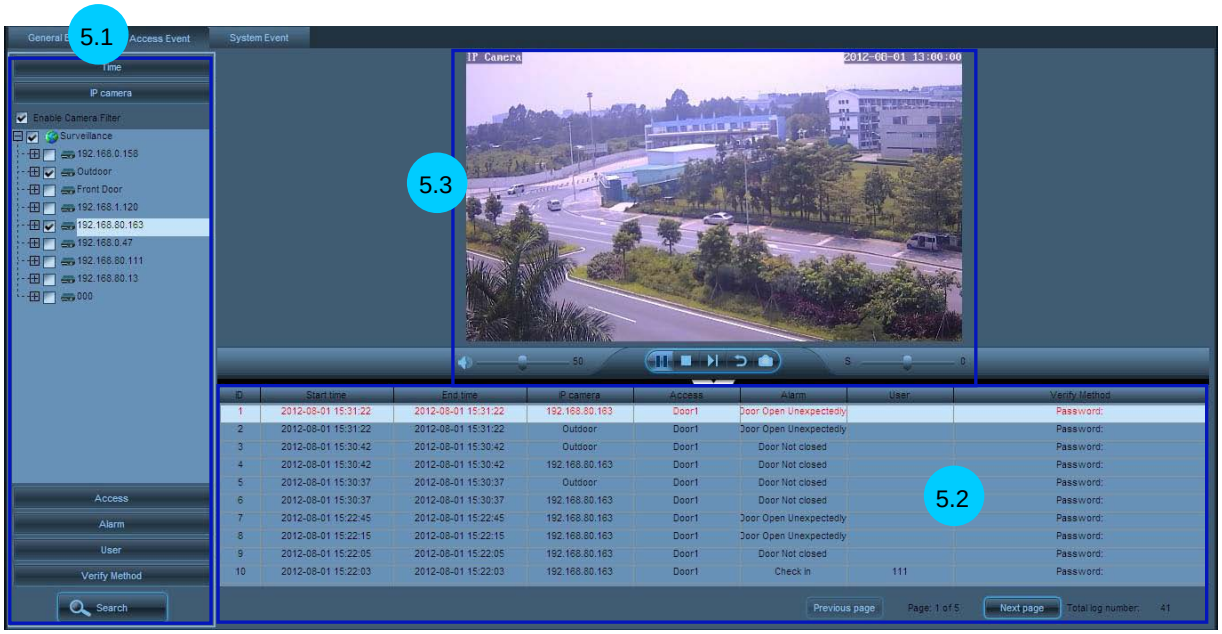
4. On the e-Map page, you can add input-output signal icons on the map and operate video surveillance and output control. For details, see 5.22 How to Set E-Map.

5. Search for door controller events and play back the linkage video.

   5.1. Access the **Event Query** –**Access Events** page.

   5.2. Set query conditions, click **Search**, and the search results will be displayed on the log list.

   5.3. View the log, double-click the log with associated video (font in red), and the associated video will be played in the playback window.


5.1
Access Event
System Event
Time
IP camera
Enable Camera Filter
Surveillance
192.168.0.158
Outdoor
Front Door
192.168.1.120
192.168.80.163
192.168.0.47
192.168.80.111
192.168.80.13
000
Access
Alarm
User
Verify Method
Search
5.3
IP Camera
2012-08-01 13:00:00
5.2
ID
Start time
End time
IP camera
Access
Alarm
User
Verify Method
1 2012-08-01 15:31:22 2012-08-01 15:31:22 192.168.80.163 Door1 Door Open Unexpectedly Password:
2 2012-08-01 15:31:22 2012-08-01 15:31:22 Outdoor Door1 Door Open Unexpectedly Password:
3 2012-08-01 15:30:42 2012-08-01 15:30:42 Outdoor Door1 Door Not closed Password:
4 2012-08-01 15:30:42 2012-08-01 15:30:42 192.168.80.163 Door1 Door Not closed Password:
5 2012-08-01 15:30:37 2012-08-01 15:30:37 Outdoor Door1 Door Not closed Password:
6 2012-08-01 15:30:37 2012-08-01 15:30:37 192.168.80.163 Door1 Door Not closed Password:
7 2012-08-01 15:22:45 2012-08-01 15:22:45 192.168.80.163 Door1 Door Open Unexpectedly Password:
8 2012-08-01 15:22:15 2012-08-01 15:22:15 192.168.80.163 Door1 Door Open Unexpectedly Password:
9 2012-08-01 15:22:05 2012-08-01 15:22:05 192.168.80.163 Door1 Door Not closed Password:
10 2012-08-01 15:22:03 2012-08-01 15:22:03 192.168.80.163 Door1 Check in 111 Password:
Previous page
Page: 1 of 5
Next page
Total log number: 41

6 FAQs

6.1 No Image at Preview

Possible causes:

1 Incorrect device information such as the user name and password

2 MAC address conflicts between the camera and other devices

3 Too many users connected to the camera

4 Camera hardware failure

Solutions:

1 Choose **Set** > **Device management** > **Search**. Correct the device information such as the user name and password. Click **Test** until the connection succeeds.

2 Choose **Set** > **Device management** > **Search**. Click 

and then 

. On the search list, check whether the camera has a MAC address that conflicts with that other devices. If such a conflict exists, consult professionals or our technical support team.

3 Access to the camera through browser. Choose **System** > **Device information** to view the number of connected videos (a camera can support a maximum of four users to browse main stream videos at the same time or ten users to browse secondary stream videos at the same time). When the maximum number of video connections is reached, wait for a few minutes until the number falls below the maximum, and then try connecting again. After these operations, you can properly play the videos.

4 Contact our commercial personnel or technical support team.

6.2 No Audio at Preview

Possible causes:

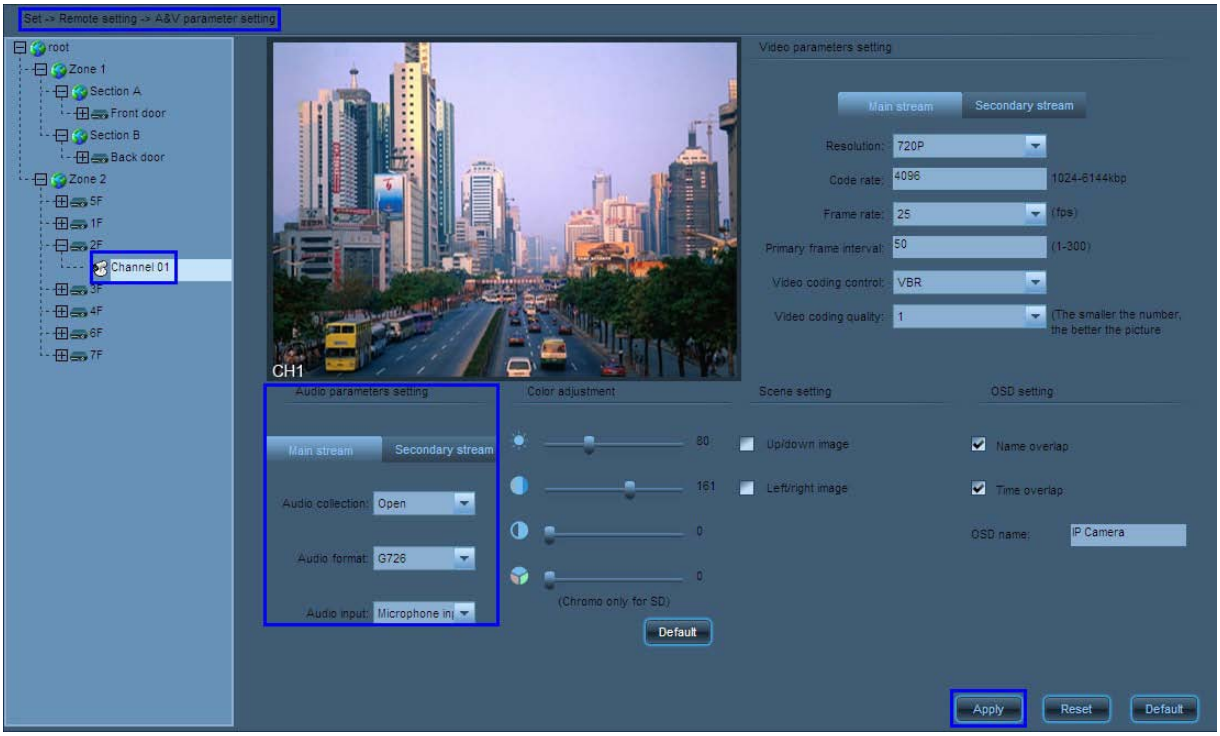
1 No external audio collecting devices

2 Incorrect audio/video parameter settings

Solutions:

1 Connect an audio collecting device to the camera before connecting the camera to your PC to make sure that you can properly hear the audio.

2 Choose Set > Remote settings > A&V parameter settings. On the A&V parameter settings interface, set Audio collection to Open.



6.3 No Audio in Playback

Possible cause: The audio collection function is disabled when you videotape the images.

6.4 Failure to Enable Manual Recording

Possible causes:

1 Equipment disconnected

2 Disk space insufficient

Solutions:

1 Choose **Set** > **Device management** > **Search**. Click **Test** until the connection succeeds.

2 Choose **Set** > **Local settings** > **Storage management**. Tick off **Disk full cover**. Then the video files of the earliest date will be deleted when all disk space is less than the preset reclaimable space. Or you can enter the video storage path and manually delete unwanted videos to free up the disk space.

6.5 Failure to Disable Videotaping at Preview

Possible causes:

The device performs scheduled videotaping within a specified period.

The device performs linkage alarm videotaping within a specified period.

6.6 Pan-Tilt Abnormality

Abnormal conditions:

1 Lighting out of order

2 Wiper out of order

3 Pan-tilt out of order

(1) The device has no built-in pan-tilt.

(2) The device cannot work with a pan-tilt.

Solutions:

1 Check whether any external light fixtures are connected. This function applies when there are external fixtures.

2 Check whether any external wipers are connected. This function applies when there are external wipers.

3 (1) An external pan-tilt is required.

(2) Choose **Set** > **Remote Settings** > **PTZ Parameter Settings**. Set PTZ parameters such as the address, baud rate, and stop bit on the **PTZ Parameter Settings** interface. Ensure that these parameter settings are consistent with the PTZ settings.

6.7 Failure to Implement Audio Intercom

Possible cause: The device has no external audio input devices or no headsets or microphones are connected to the PC.

Solution: Connect an external audio input device to the device and connect a microphone headset to the PC.

6.8 Failure to Play Back Videos Displayed on the Timeline Panel After a Video Search

Possible cause: The video files are missing or the user has manually deleted the video files within a specified period.

6.9 Failure to Search for Video Files

Possible cause: The video file for this time period has been deleted or has been overwritten by circulating video recording.

6.10 Failure to Set the Motion Detection Area

Possible causes:

1 When **Resolution** is set to **QCIF**, the system does not respond your request for motion detection area settings.

2 If you log in to the front-end device with a non-admin account, the system does not respond your request for motion detection area settings.

Solutions:

1 Choose **Settings** > **Remote Settings** > **A&V Parameter Settings**. In the Video parameters settings pane, set the resolutions on the Main stream and Secondary stream tab pages separately.

2 Switch to log in to the front-end device as a superuser, and then set the motion detection area.

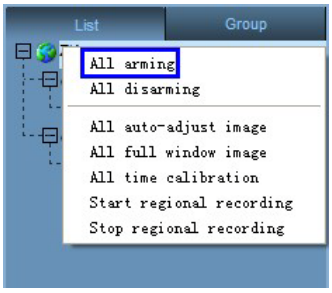
6.11 Failure to Achieve Alarm Linkage

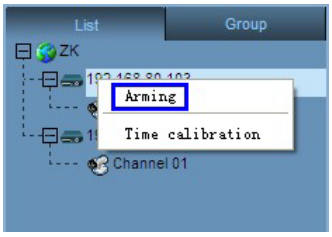
Possible cause: The **Arming** function is not enabled.

Solutions:

1 On the equipment list of the preview interface, right-click a desired area and choose **All arming** from the shortcut menu. Then the guard function is enabled for all devices in this area.

2 On the equipment list of the preview interface, right-click a desired device and choose **Arming** from the shortcut menu. Then the guard function is enabled for this device in this area.





6.12 Failure to Display the Alarm Window After Enabling Arming

Possible causes:

1 The **Pop up video window** option is not selected.

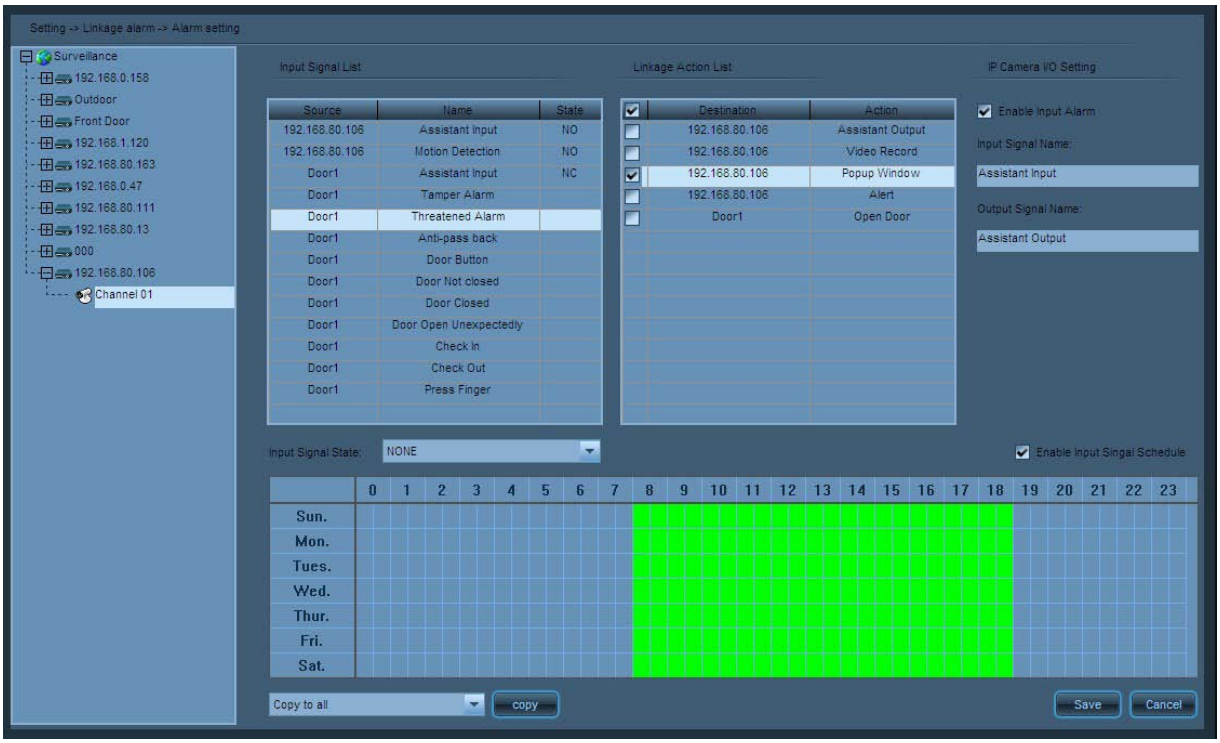
2 No alarm signals are detected.

3 When **Resolution** is set to **QCIF**, the system does not support motion detection alarms.

4 If you log in to the system as a non-admin user (namely, a superuser), the system does not support motion detection alarms.

Solutions:

1 Choose **Settings** > **Linkage Alarm** > **Alarm Settings**. In the Alarm linkage pane, select **Pop up Window**.



2 Check the motion detection area and input alarm settings. For relevant motion detection settings, see 5.7 Set Motion Detection. For relevant external alarm inputs, see Set Alarm Linkage.

3 Choose Set > Remote settings > A&V parameter settings. In the Video parameters settings pane, set the resolutions on the Main stream and Secondary stream tab pages separately.

4 Switch to log in to the system as a superuser.

6.13 Video Image Exception at Preview

Possible causes:

1 Incorrect video parameter settings

2 Unstable camera connection

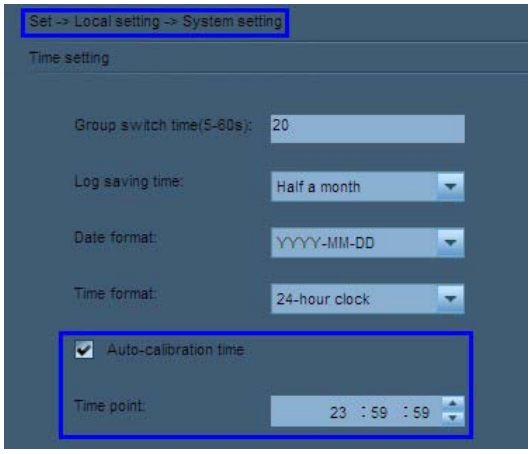
Solutions:

1 Choose **Set** > **Remote settings** > **A&V parameter settings**. In the **Video parameters settings** pane, set parameters on the **Main stream** and **Secondary stream** tab pages according to actual bandwidth.

2 Check to ensure that the camera is properly connected.

6.14 Incorrect System Time

Solution: Choose **Set** > **Local settings** > **System settings**. Tick off **Auto-calibration time** and set the calibration time. When the calibration time arrives, the system automatically calibrates the time.



7 Others

1 To monitor the devices in a centralized manner, enable **Task Manager** to check the CPU usage. The CPU may function improperly with more than 80% resources occupied. See 5.21 Set Audio and Video Parameters Appropriate for Your Network to decrease the device bit rate, or lower the resolution.

2 Check the manufacturer website regularly for the latest software version.

3 Know the factory default parameters of cameras produced by our company.

IP Acquisition Mode	Manual settings
IP Address	192.168.1.88
Subnet Mask	255.255.255.0
Gateway	192.168.1.1
HTTP Interface	80
UPnP	Disabled
DNS Acquisition Mode	Manual settings
Primary DNS	192.168.1.1
Motion Detection	Disabled
Alarm Input	Disabled
Wireless	Disabled
User name	admin
Password	admin