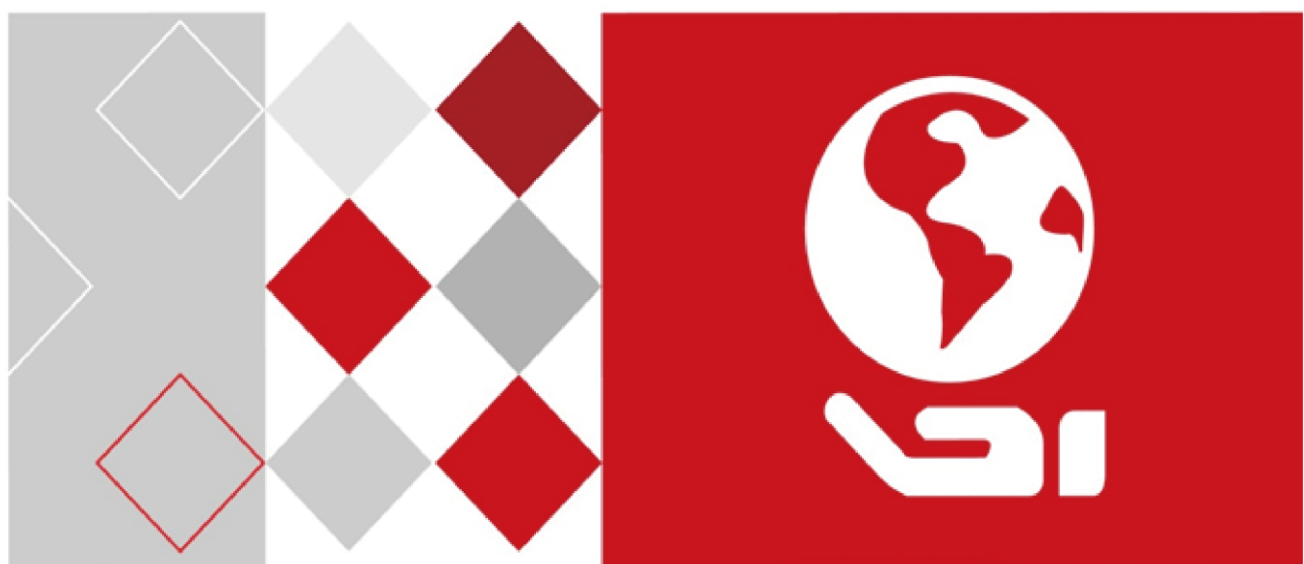


HIKVISION



E Series Network Speed Dome

User Manual

User Manual

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This Manual is applicable to E Series Network Speed Dome.

The Manual includes instructions for using and managing the product. Pictures, charts, images and all other information hereinafter are for description and explanation only. The information contained in the Manual is subject to change, without notice, due to firmware updates or other reasons. Please find the latest version in the company website (<http://overseas.hikvision.com/en/>).

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FCC Information

Please take attention that changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC compliance: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC Conditions

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

EU Conformity Statement



This product and - if applicable - the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the Low Voltage Directive 2006/95/EC, the EMC Directive 2014/30/EU, the RoHS Directive 2011/65/EU.



2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: www.recyclethis.info.



2006/66/EC (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: www.recyclethis.info.

Industry Canada ICES-003 Compliance

This device meets the CAN ICES-3 (A)/NMB-3(A) standards requirements.

Safety Instruction

These instructions are intended to ensure that the user can use the product correctly to avoid danger or property loss.

The precaution measure is divided into 'Warnings' and 'Cautions':

Warnings: Serious injury or death may be caused if any of these warnings are neglected.

Cautions: Injury or equipment damage may be caused if any of these cautions are neglected.

	
Warnings Follow these safeguards to prevent serious injury or death.	Cautions Follow these precautions to prevent potential injury or material damage.



Warnings:

- Please adopt the power adapter which can meet the safety extra low voltage (SELV) standard. The power consumption cannot be less than the required value.
- Do not connect several devices to one power adapter as an adapter overload may cause over-heating and can be a fire hazard.
- When the product is installed on a wall or ceiling, the device should be firmly fixed.
- To reduce the risk of fire or electrical shock, do not expose the indoor used product to rain or moisture.
- This installation should be made by a qualified service person and should conform to all the local codes.
- Please install blackouts equipment into the power supply circuit for convenient supply interruption.
- If the product does not work properly, please contact your dealer or the nearest service center. Never attempt to disassemble the product yourself. (We shall not assume any responsibility for problems caused by unauthorized repair or maintenance.)



Cautions:

- Make sure the power supply voltage is correct before using the product.
- Do not drop the product or subject it to physical shock. Do not install the product on vibratory surface or places.
- Do not expose it to high electromagnetic radiating environment.
- Do not aim the lens at the strong light such as sun or incandescent lamp. The strong light can cause fatal damage to the product.

- The sensor may be burned out by a laser beam, so when any laser equipment is being used, make sure that the surface of the sensor not be exposed to the laser beam.
- For working temperature, please refer to the specification manual for details.
- To avoid heat accumulation, good ventilation is required for a proper operating environment.
- While shipping, the product should be packed in its original packing.
- Please use the provided glove when open up the product cover. Do not touch the product cover with fingers directly, because the acidic sweat of the fingers may erode the surface coating of the product cover.
- Please use a soft and dry cloth when clean inside and outside surfaces of the product cover. Do not use alkaline detergents.
- Improper use or replacement of the battery may result in hazard of explosion. Please use the manufacturer recommended battery type.

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Chapter 1 Overview

1.1 System Requirement

System requirement of web browser accessing is as follows:

Operating System: Microsoft Windows XP SP1 and above version / Vista / Win7 / Server 2003 / Server 2008 32bits

CPU: Intel Pentium IV 3.0 GHz or higher

RAM: 1G or higher

Display: 1024×768 resolution or higher

Web Browser: Internet Explorer 8.0 and above version, Apple Safari 5.02 and above version, Mozilla Firefox 5 and above version and Google Chrome 18 and above versions.

1.2 Functions



The functions vary depending on the models of speed dome.

- **PTZ Limits**

The speed dome can be programmed to move within the PTZ limits (left/right, up/down).

- **Scan Modes**

The speed dome provides 5 scan modes: auto scan, tilt scan, frame scan, random scan and panorama scan.

- **Presets**

A preset is a predefined image position. When the preset is called, the speed dome will automatically move to the defined position. The presets can be added, modified, deleted and called.

- **Label Display**

The on-screen label of the preset title, azimuth/elevation, zoom, time and speed dome name can be displayed on the monitor. The displays of time and speed dome name can be programmed.

- **Auto Flips**

In manual tracking mode, when a target object goes directly beneath the speed dome, the video will automatically flips 180 degrees in horizontal direction to maintain continuity of tracking. This function can also be realized by auto mirror image depending on different camera models.

- **Privacy Mask**

This function allows you to block or mask certain area of a scene, for preventing the personal privacy from recording or live viewing. A masked area will move with pan and tilt functions and automatically adjust in size as the lens zooms telephoto and wide.

- **3D Positioning**

In the client software, use the left key of mouse to click on the desired position in the video image and drag a rectangle area in the lower right direction, then the speed dome system will

move the position to the center and allow the rectangle area to zoom in. Use the left key of mouse to drag a rectangle area in the upper left direction to move the position to the center and allow the rectangle area to zoom out.

- **Proportional Pan/Tilt**

Proportional pan/tilt automatically reduces or increases the pan and tilt speeds according to the amount of zoom. At telephoto zoom settings, the pan and tilt speeds will be slower than at wide zoom settings. This keeps the image from moving too fast on the live view image when there is a large amount of zoom.

- **Auto Focus**

The auto focus enables the camera to focus automatically to maintain clear video images.

- **Day/Night Auto Switch**

The speed domes deliver color images during the day. And as light diminishes at night, the speed domes switch to night mode and deliver black and white images with high quality.

- **Slow Shutter**

In slow shutter mode, the shutter speed will automatically slow down in low illumination conditions to maintain clear video images by extending the exposure time. The feature can be enabled or disabled.

- **Backlight Compensation (BLC)**

If you focus on an object against strong backlight, the object will be too dark to be seen clearly. The BLC (Backlight Compensation) function can compensate light to the object in the front to make it clear, but this causes the over-exposure of the background where the light is strong.

- **Wide Dynamic Range (WDR)**

The wide dynamic range (WDR) function helps the camera provide clear images even under back light circumstances. When there are both very bright and very dark areas simultaneously in the field of view, WDR balances the brightness level of the whole image and provide clear images with details.

- **White Balance (WB)**

White balance can remove the unrealistic color casts. White balance is the white rendition function of the camera to adjust the color temperature according to the environment automatically.

- **Patrol**

A patrol is a memorized series of pre-defined preset function. The scanning speed between two presets and the dwell time at the preset are programmable.

- **Pattern**

A pattern is a memorized series of pan, tilt, zoom, and preset functions. By default the focus and iris are in auto status during the pattern is being memorized.

- **Power Off Memory**

The speed dome supports the power off memory capability with the predefined resume time. It allows the speed dome to resume its previous position after power is restored.

- **Scheduled Task**

A time task is a preconfigured action that can be performed automatically at a specific date and time. The programmable actions include: auto scan, random scan, patrol 1-8, pattern 1-4, preset 1-8, frame scan, panorama scan, tilt scan, day, night, reboot, PT adjust, Aux Output, etc.

- **Park Action**

This feature allows the speed dome to start a predefined action automatically after a period of inactivity.

- **User Management**

The speed dome allows you to edit users with different levels of permission, in the admin login status. Multiple users are allowed to access and control the same network speed dome via network simultaneously.

- **3D Digital Noise Reduction**

Comparing with the general 2D digital noise reduction, the 3D digital noise reduction function processes the noise between two frames besides processing the noise in one frame. The noise will be much less and the video will be clearer.

Chapter 2 Network Connection

Before you start:

- If you want to set the network speed dome via a LAN (Local Area Network), please refer to **Section 2.1**.
- If you want to set the network speed dome via a WAN (Wide Area Network), please refer to **Section 2.2**.

2.1 Setting the Network Speed Dome over the LAN

Purpose:

To view and configure the speed dome via a LAN, you need to connect the network speed dome in the same subnet with your computer, and install the SADP or client software to search and change the IP of the network speed dome.



For the detailed introduction of SADP, please refer to Appendix.

2.1.1 Wiring over the LAN

The following figures show the two ways of cable connection of a network speed dome and a computer:

Purpose:

- To test the network speed dome, you can directly connect the network speed dome to the computer with a network cable as shown in Figure 2-1.
- Refer to the Figure 2-2 to set the network speed dome over the LAN via a switch or a router.

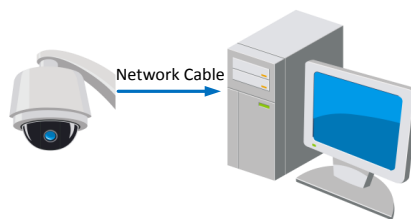


Figure 2-1 Connecting Directly

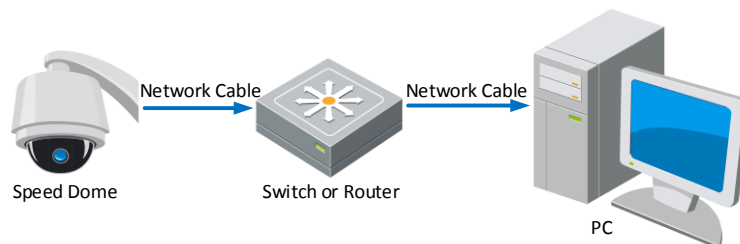


Figure 2-2 Connecting via a Switch or a Router

2.1.2 Activating the Speed Dome

Purpose:

You are required to activate the speed dome first before you can use the speed dome.

Activation via Web Browser, Activation via SADP, and Activation via client software are supported.

In the following sections, activation via web browser and SADP will be taken as examples. You may refer to the user manual of the speed dome for the details of activation via client software.

◆ Activation via Web Browser

Steps:

1. Power on the speed dome, and connect the speed dome to the network.
2. Input the IP address into the address bar of the web browser, and click **Enter** to enter the activation interface.



The default IP address of the speed dome is 192.168.1.64.

A screenshot of the web-based activation interface. The title bar says "Activation". It contains three input fields: "User Name" with the value "admin", "Password" (empty), and "Confirm" (empty). Below the password field, there is a text box with the following text: "Valid password range [8-16]. You can use a combination of numbers, lowercase, uppercase and special character for your password with at least two kinds of them contained." An "OK" button is located at the bottom right of the form.

Figure 2-3 Activation Interface(Web)

3. Create a password and input the password into the password field.



STRONG PASSWORD RECOMMENDED—We highly recommend you create a strong password of your own choosing (Using a minimum of 8 characters, including at least three of the following categories: upper case letters, lower case letters, numbers, and special characters.) in order to increase the security of your product. And we recommend you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.

4. Confirm the password.
5. Click **OK** to activate the speed dome and enter the live view interface.

◆ Activation via SADP Software

SADP software is used for detecting the online device, activating the device, and resetting the password.

Get the SADP software from the supplied disk or the official website, and install the SADP according to the prompts. Follow the steps to activate the speed dome.

Steps:

1. Run the SADP software to search the online devices.
2. Check the device status from the device list, and select an inactive device.

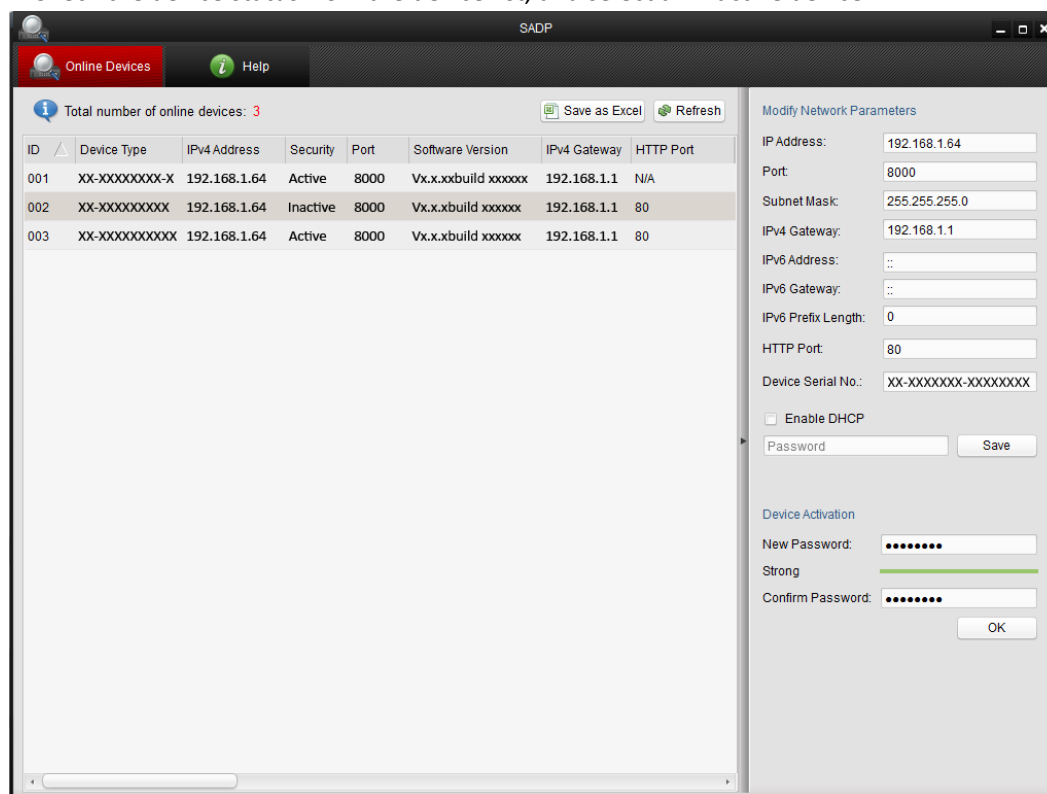


Figure 2-4 SADP Interface

3. Create a password and input the password in the password field, and confirm the password.



STRONG PASSWORD RECOMMENDED—We highly recommend you create a strong password of your own choosing (Using a minimum of 8 characters, including at least three of the following categories: upper case letters, lower case letters, numbers, and special characters.) in order to increase the security of your product. And we recommend you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.

4. Click **OK** to save the password.
You can check whether the activation is completed on the popup window. If activation failed, please make sure that the password meets the requirement and then try again.
5. Change the device IP address to the same subnet with your computer by either modifying the IP address manually or checking the checkbox of **Enable DHCP**.

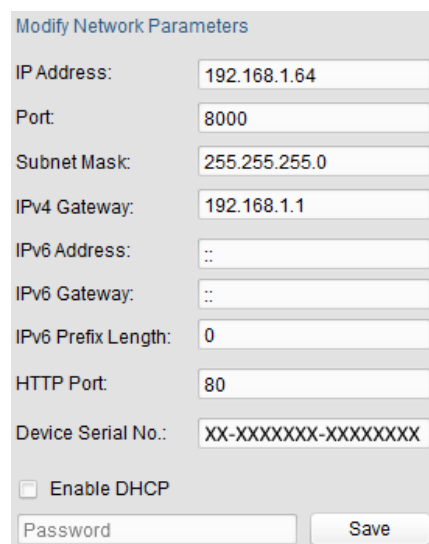


Figure 2-5 Modify the IP Address

6. Input the password and click **Save** to activate your IP address modification.

◆ Activation via Client Software

The client software is versatile video management software for multiple kinds of devices. Get the client software from the supplied disk or the official website, and install the software according to the prompts. Follow the steps to activate the camera.

Steps:

1. Run the client software and the control panel of the software pops up, as shown in the figure below.

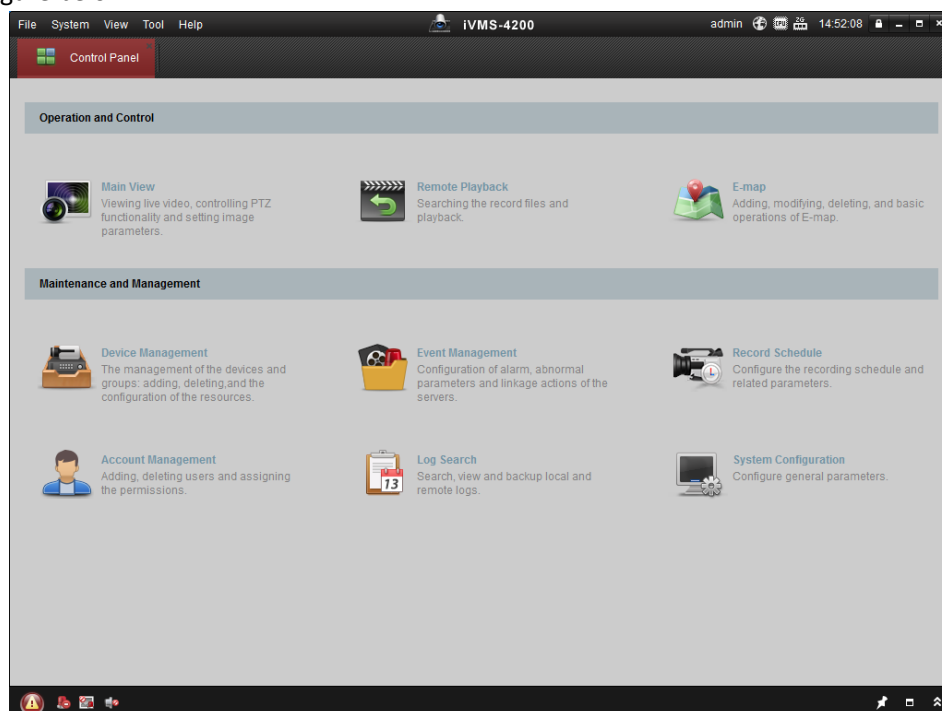


Figure 2-6 Control Panel

2. Click **Device Management** to enter the Device Management interface, as shown in the figure

below.

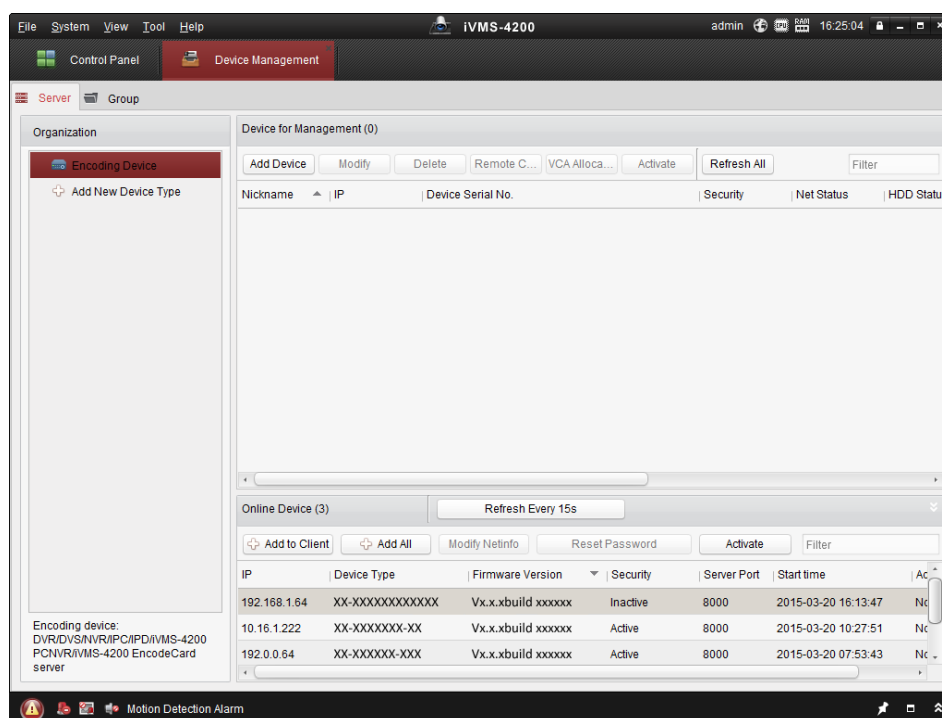


Figure 2-7 Device Management Interface

3. Check the device status from the device list, and select an inactive device.
4. Click **Activate** to pop up the Activation interface.
5. Create a password and input the password in the password field, and confirm the password.

! STRONG PASSWORD RECOMMENDED—We highly recommend you create a strong password of your own choosing (Using a minimum of 8 characters, including at least three of the following categories: upper case letters, lower case letters, numbers, and special characters.) in order to increase the security of your product. And we recommend you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.

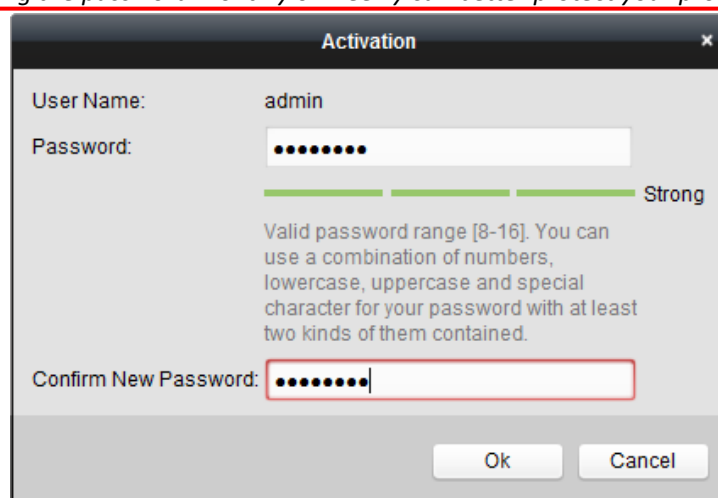


Figure 2-8 Activation Interface

6. Click **OK** to start activation.

- Click **Modify Netinfo** to pop up the Network Parameter Modification interface, as shown in the figure below.

Figure 2-9 Modifying the Network Parameters

- Change the device IP address to the same subnet with your computer by either modifying the IP address manually or checking the checkbox of **Enable DHCP**.
- Input the password to activate your IP address modification.

2.2 Setting the Network Speed Dome over the WAN

Purpose:

This section explains how to connect the network speed dome to the WAN with a static IP or a dynamic IP.

2.2.1 Static IP Connection

Before you start:

Please apply a static IP from an ISP (Internet Service Provider). With the static IP address, you can connect the network speed dome via a router or connect it to the WAN directly.

- **Connecting the network speed dome via a router**

Steps:

- Connect the network speed dome to the router.
- Assign a LAN IP address, the subnet mask and the gateway. Refer to **Section 2.1.2** for detailed IP address configuration of the speed dome.
- Save the static IP in the router.
- Set port mapping, E.g., 80, 8000 and 554 ports. The steps for port mapping vary depending on different routers. Please call the router manufacturer for assistance with port mapping.
- Visit the network speed dome through a web browser or the client software over the

internet.

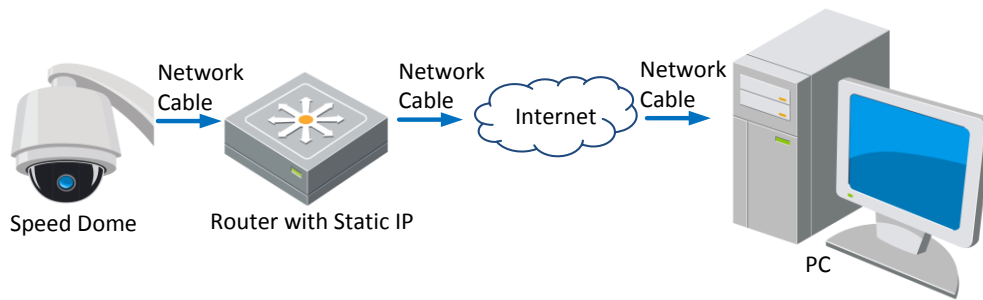


Figure 2-10 Accessing the Speed Dome through Router with Static IP

- **Connecting the network speed dome with static IP directly**

You can also save the static IP in the speed dome and directly connect it to the internet without using a router. Refer to **Section 2.1.2** for detailed IP address configuration of the speed dome.

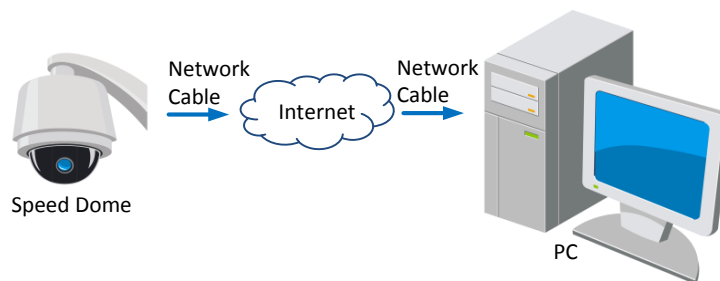


Figure 2-11 Accessing the Speed Dome with Static IP Directly

2.2.2 Dynamic IP Connection

Before you start:

Please apply a dynamic IP from an ISP. With the dynamic IP address, you can connect the network speed dome to a modem or a router.

- **Connecting the network speed dome via a router**

Steps:

1. Connect the network speed dome to the router.
2. In the speed dome, assign a LAN IP address, the subnet mask and the gateway. Refer to **Section 2.1.2** for detailed LAN configuration.
3. In the router, set the PPPoE user name, password and confirm the password.



- *For your privacy and to better protect your system against security risks, we strongly recommend the use of strong passwords for all functions and network devices. The password should be something of your own choosing (using a minimum of 8 characters, including upper case letters, lower case letters, numbers and special characters) in order to increase the security of your product.*

- *Proper configuration of all passwords and other security settings is the responsibility of the installer and/or end-user.*
4. Set port mapping. E.g. 80, 8000 and 554 ports. The steps for port mapping vary depending on different routers. Please call the router manufacturer for assistance with port mapping.
 5. Apply a domain name from a domain name provider.
 6. Configure the DDNS settings in the setting interface of the router.
 7. Visit the speed dome via the applied domain name.
- **Connecting the network speed dome via a modem**

Purpose:

This speed dome supports the PPPoE auto dial-up function. The speed dome gets a public IP address by ADSL dial-up after the speed dome is connected to a modem. You need to configure the PPPoE parameters of the network speed dome. Refer to **Section 6.1.1 Configuring PPPoE Settings** for detailed configuration.

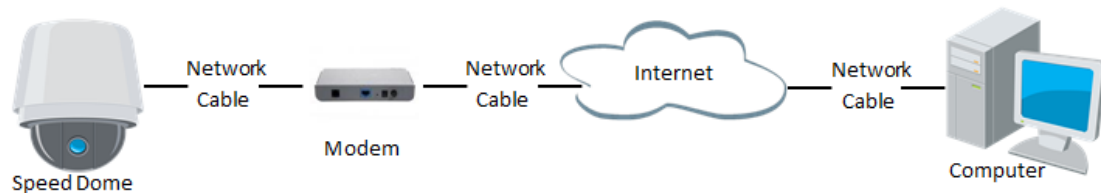


Figure 2-12 Accessing the Speed Dome with Dynamic IP



The obtained IP address is dynamically assigned via PPPoE, so the IP address always changes after rebooting the speed dome. To solve the inconvenience of the dynamic IP, you need to get a domain name from the DDNS provider (E.g. DynDns.com). Please follow below steps for normal domain name resolution and private domain name resolution to solve the problem.

◆ **Normal Domain Name Resolution**

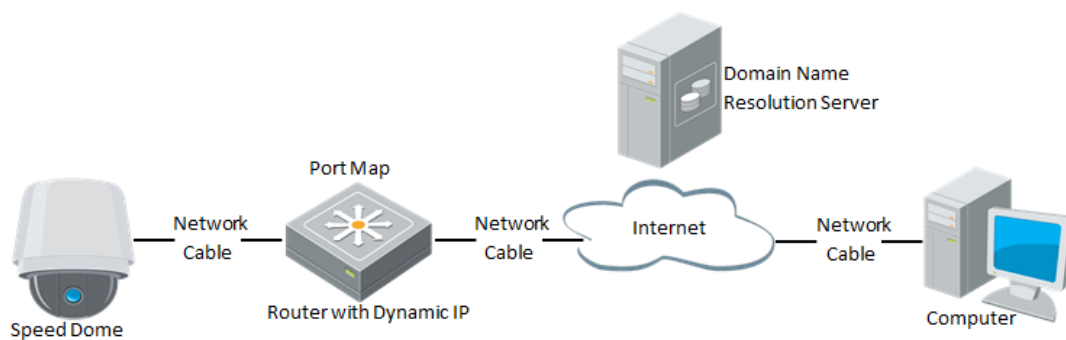


Figure 2-13 Normal Domain Name Resolution

Steps:

1. Apply a domain name from a domain name provider.
2. Configure the DDNS settings in the **DDNS Settings** interface of the network speed dome. Refer to **Section 6.1.1 Configuring DDNS Settings** for detailed configuration.
3. Visit the speed dome via the applied domain name.

Chapter 3 Access to the Network

Speed Dome

3.1 Accessing by Web Browsers

Steps:

1. Open the web browser.
2. In the address field, input the IP address of the network speed dome, e.g., 192.168.1.64 and press the **Enter** key to enter the login interface.
3. Activate the speed dome for the first time using, refer to the **section 2.1.2 Activating the Speed Dome**.
4. Select English as the interface language on the top-right of login interface.
5. Input the user name and password and click .

The admin user should configure the device accounts and user/operator permissions properly. Delete the unnecessary accounts and user/operator permissions.



The device IP address gets locked if the admin user performs 7 failed password attempts (5 attempts for the user/operator).

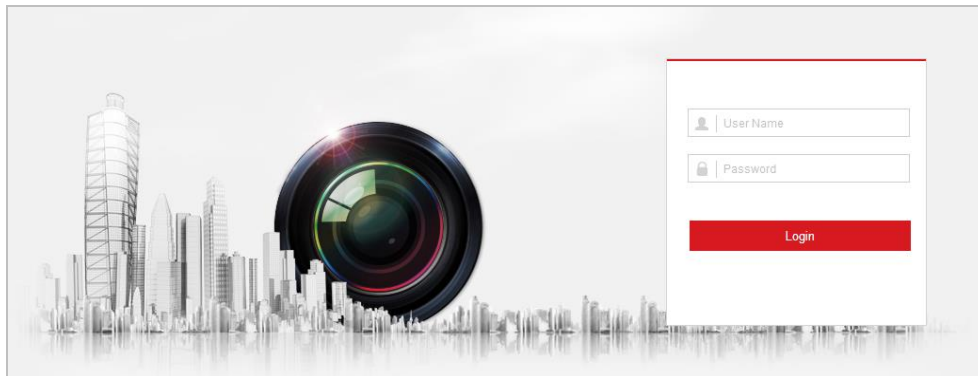


Figure 3-1 Login Interface

6. Install the plug-in before viewing the live video and operating the speed dome. Please follow the installation prompts to install the plug-in.



You may have to close the web browser to install the plug-in. Please reopen the web browser and log in again after installing the plug-in.

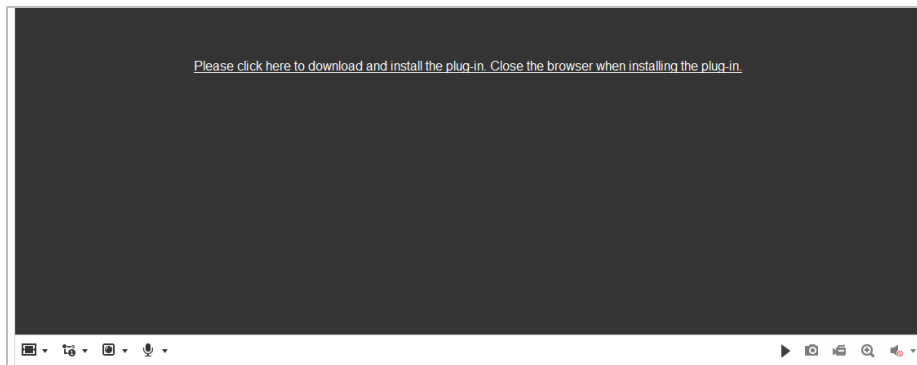


Figure 3-2 Download and Install Plug-in

3.2 Accessing by Client Software

The product CD contains the client software. You can view the live video and manage the speed dome with the client software.

Follow the installation prompts to install the client software and WinPcap. The configuration interface and live view interface of client software are shown below.

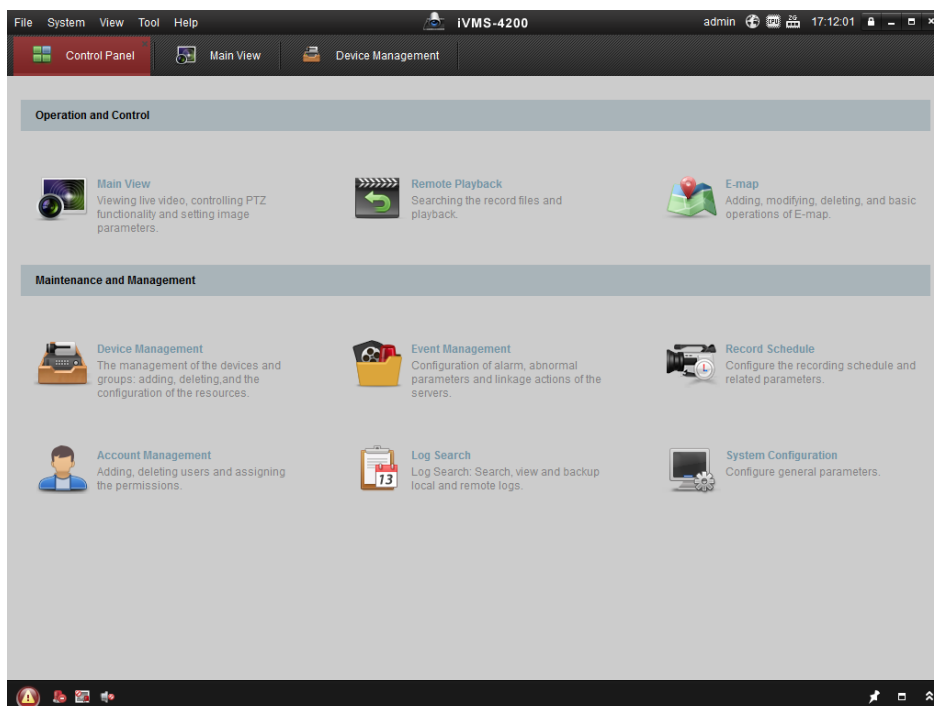


Figure 3-3 iVMS-4200 Control Panel

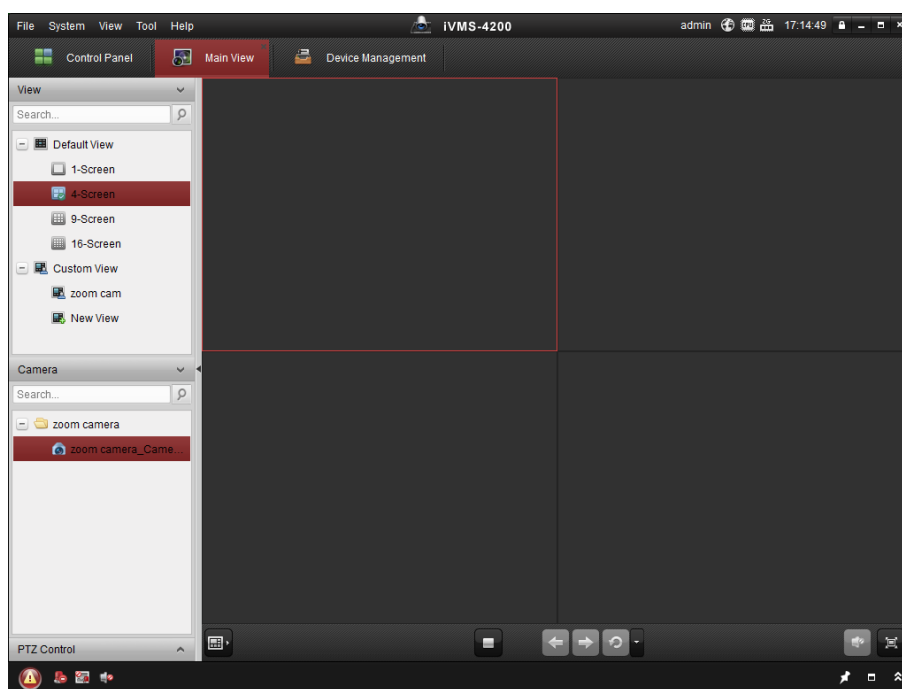


Figure 3-4 iVMS-4200 Live View Interface



- If you use third party VMS software, please contact technical support of our branch for camera firmware.
- For detailed information about client software of our company, please refer to the user manual of the software. This manual mainly introduces accessing to the network speed dome by web browser.

Chapter 4 Basic Operations

In this and the following chapters, operation of the speed dome by the web browser will be taken as an example.

4.1 Configuring Local Parameters



The local configuration refers to the parameters of the live view and other operations using the web browser.

Steps:

1. Enter the Local Configuration interface:

Configuration > Local

The screenshot displays the 'Local Configuration' interface. It is organized into three main sections:

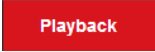
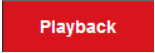
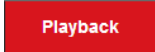
- Live View Parameters:** Contains radio buttons for Protocol (TCP, UDP, MULTICAST, HTTP), Play Performance (Shortest Delay, Auto), Rules (Enable, Disable), and Image Format (JPEG, BMP). TCP, Auto, Disable, and JPEG are selected.
- Record File Settings:** Includes a Record File Size section with radio buttons for 256M, 512M, and 1G (512M is selected). Below are two rows of text input fields for 'Save record files to' and 'Save downloaded files to', each with 'Browse' and 'Open' buttons.
- Picture and Clip Settings:** Includes three rows of text input fields for 'Save snapshots in live view to', 'Save snapshots when playback to', and 'Save clips to', each with 'Browse' and 'Open' buttons.

A red 'Save' button is located at the bottom left of the interface.

Figure 4-1 Local Configuration Interface

2. Configure the following settings:

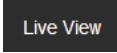
- **Live View Parameters:** Set the protocol type, play performance, rules and image format.
 - ◆ **Protocol Type:** TCP, UDP, MULTICAST and HTTP are selectable.
 - TCP:** Ensures complete delivery of streaming data and better video quality, yet the real-time transmission will be affected.
 - UDP:** Provides real-time audio and video streams.
 - MULTICAST:** It's recommended to select the protocol type to **MULTICAST** when using the Multicast function.
 - HTTP:** Allows the same quality as of TCP without setting specific ports for streaming under some network environments.
 - ◆ **Play Performance:** Set the play performance to Shortest Delay, or Auto.
 - ◆ **Rules:** You can enable or disable the rules of dynamic analysis for motion here.

- ◆ **Image Format:** The captured pictures can be saved as different format. JPEG and BMP are available.
 - **Record File Settings:** Set the saving path of the video files.
 - ◆ **Record File Size:** Select the packed size of manually recorded and downloaded video files. The size can be set to 256M, 512M or 1G.
 - ◆ **Save record files to:** Set the saving path for the manually recorded video files.
 - ◆ **Save downloaded files to:** Set the saving path for the downloaded video files in  interface.
 - **Picture and Clip Settings:** Set the saving paths of the captured pictures and clipped video files.
 - ◆ **Save snapshots in live view to:** Set the saving path of the manually captured pictures in  interface.
 - ◆ **Save snapshots when playback to:** Set the saving path of the captured pictures in  interface.
 - ◆ **Save clips to:** Set the saving path of the clipped video files in  interface.
-  **NOTE**
- You can click **Browse** to change the directory for saving video files, clips and pictures.
 - You can click **Open** to directly open the video files, clips and pictures.
3. Click  to save the settings.

4.2 Live View Page

Purpose:

The live video page allows you to view live video, capture images, realize PTZ control, set/call presets and configure video parameters.

Log in the network speed dome to enter the live view page, or you can click  on the menu bar of the main page to enter the live view page.

Descriptions of the live view page:

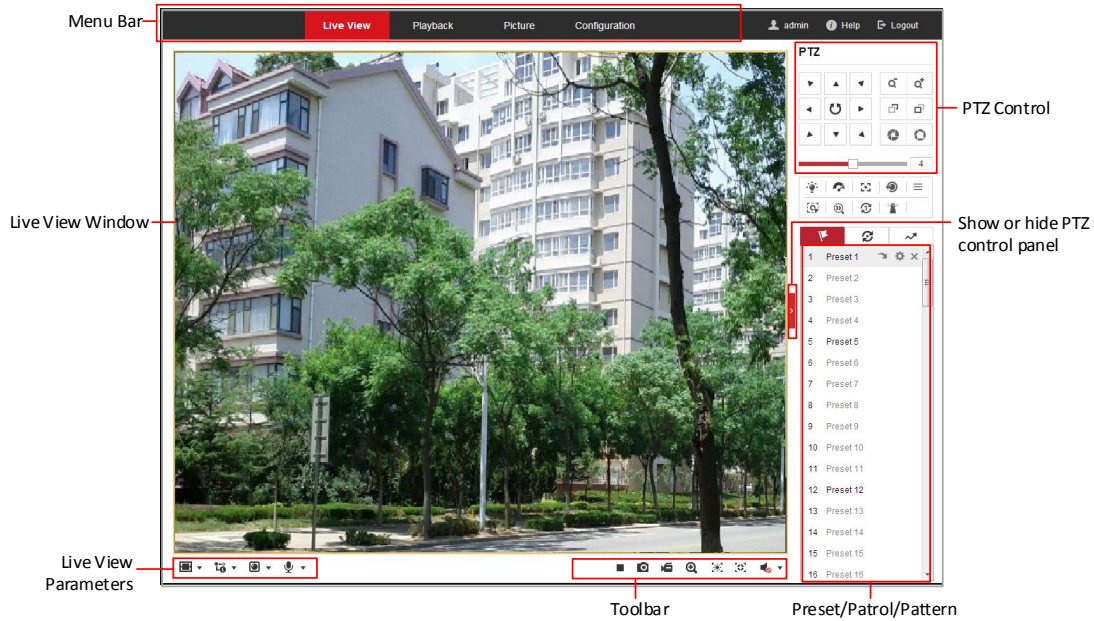


Figure 4-2 Live View Page

Menu Bar:

Click each tab to enter Live View, Playback, Picture, and Configuration page respectively.

Click  to display the help file of the speed dome.

Click  to logout the system.

Live View Window:

Display the live video.

Toolbar:

Operations on the live view page, e.g., live view, capture, record, audio on/off, regional exposure, regional focus, etc.

PTZ Control:

Panning, tilting, focusing and zooming actions of the speed dome. The lighter, wiper, one-touch focus and lens initialization control.

Preset/patrol/pattern:

Set and call the preset/patrol/pattern for the speed dome.



Pattern function varies depending on the models of speed dome.

Live View Parameters:

Configure the image size, stream type, plug-in type, and two-way audio of the live video.

4.3 Starting Live View

In the live view window as shown in Figure 4-3, click  on the toolbar to start the live view of the speed dome.

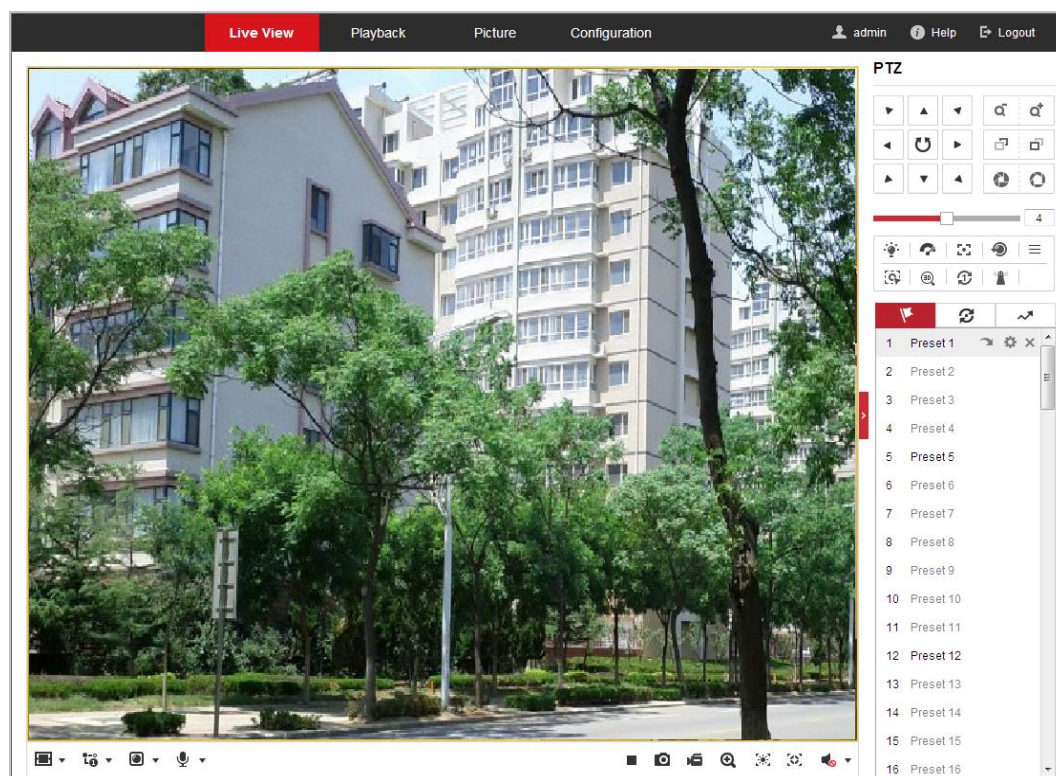


Figure 4-3 Start Live View

Table 4-1 Descriptions of the Toolbar

Icon	Description	Icon	Description
	Start/Stop Live view.		Manually capture the pictures.
	Display in 4:3/16:9/original/Self-adaptive window size.		Live view with the main/sub/third stream.
	Play via webcomponents/quick time.		Start/Stop Two-way Audio.
	Manual start/stop recording.		Mute/Audio on and adjust volume
	Start/stop digital zoom.		Enable/Disable Regional Exposure
	Enable / Disable Regional Focus		

- Double-click on the live video to switch the current live view into full-screen or return to normal mode from the full-screen.
- Click to select from and display live video in 4:3/16:9/original/self-adaptive window size.
- Click to select from and display live video with the main/ sub/third stream. The main stream is with a relatively high resolution and needs much bandwidth. The default setting of stream type is .

- Click  to select between  and  and play the live video via player **Webcomponents** or **Quick Time**. The live video is played via webcomponents by default, and other types of players are supported for the browser, such as MJPEG, and VLC. You are required to download and install the player to play the live video.
- Click  and it displays . Click  to enable two-way audio and the icon turns into . Click the icon again to stop two-way audio.
- Click  to start live view and the icon turns into . Click the icon again to stop live view.
- Click  to capture the picture.
- Click  to start recording and the icon turns into . Click the icon again to stop recording.
- Click  to enable digital zoom function and the icon turns into . Then click and drag the mouse towards low right direction to draw a rectangle on the image as the desired zoom. After viewing it you can click any place of the picture to get back to normal picture.
- Click the  on the toolbar to enter the regional exposure operation mode and the icon turns into . Then click and drag the mouse to draw a rectangle on the image as the desired exposure region.
- Click the  on the toolbar to enter the regional focus operation mode and the icon turns into . Then click and drag the mouse to draw a rectangle on the image as the desired focus region.
- Click  to display the  . Drag the slider to adjust the volume.



Before using the two-way audio or recording with audio functions, please set the **Stream Type** to **Video & Audio** referring to **Section 6.2.1 Configuring Video Settings**.

Please refer to the following sections for more information:

- Configuring remote recording in **Section 5.1.1 Configuring Recording Schedule**.
- Setting the image quality of the live video in **Section 6.3 Configuring Image Settings** and **Section 6.2.1 Configuring Video Settings**.
- Setting the OSD text on live video in **Section 6.3.2 Configuring OSD Settings**.

4.4 Operating PTZ Control

Purpose:

In the live view interface, you can use the PTZ control buttons to control panning, tilting and zooming.

4.4.1 PTZ Control Panel

On the live view page, click  to show the PTZ control panel or click  to hide it. Click the direction buttons to control the pan/tilt movements. Click the zoom/iris/focus buttons to realize lens control.

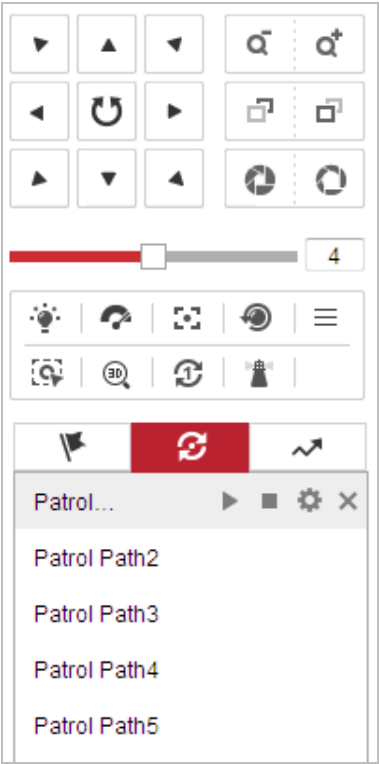


Figure 4-4 PTZ Control Panel

Table 4-2 Descriptions of PTZ Control Panel

Button	Name	Description
	PTZ Control Panel	Hold and press the direction button to pan/tilt the speed dome. Click  and the speed dome keeps panning, the icon turns into  . Click the icon again to stop the speed dome.
	Zoom out/in	Click  , the lens zooms in, click  , and the lens zooms out.

Button	Name	Description
	Focus near/far	Click  , the lens focus far and the items far away gets clear. Click  , the lens focus near and the items nearby gets clear.
	Iris close/open	When the image is too dark, click  to open the iris. When the image is too bright, click  to close the iris.
	Auxiliary Functions	The auxiliary functions include light, wiper, auxiliary focus, lens initialization, manual tracking, 3D positioning, one-touch patrol, and one-touch park.
	Speed Adjustment	Adjust speed of pan/tilt movements.
	Preset	Refer to 4.4.3 for detailed information of setting preset.
	Patrol	Refer to 4.4.4 for detailed information of setting patrol.
	Pattern	Refer to 4.4.6 for detailed information of setting pattern.

● **Buttons on the Preset/Patrol/Patterns interface:**

Table 4-3 Descriptions of Buttons

Buttons	Description
	Start the selected patrol/pattern.
	Stop current patrol/pattern.
	Set the selected preset/patrol.
	Delete the selected preset/patrol/pattern.
	Start recording a pattern.
	Stop recording the pattern.

4.4.2 Auxiliary Functions

The Auxiliary functions panel is shown in the figure below:



Figure 4-5 Auxiliary Functions

- Light

Click  to enable/disable the light supplement of the speed dome. This function is reserved.

- Wiper

Click  to move the wiper once.

- Auxiliary Focus

The auxiliary focus function is reserved.

- Manual Tracking

Before you start:

Please enter the Smart Tracking settings interface and enable smart tracking first.

Configuration > PTZ > Smart Tracking

Steps:

1. Click  on the toolbar of live view interface.
2. Click a moving object in the live video.
The speed dome will track the object automatically.

- 3D Positioning

Steps:

1. Click  on the toolbar of live view interface.
2. Operate the 3D positioning function:
 - Click a position of the live video. The corresponding position will be moved to the center of the live video.
 - Hold down the left mouse button and drag the mouse to the lower right on the live video. The corresponding position will be moved to the center of the live video and zoomed in.
 - Hold down the left mouse button and drag the mouse to the upper left on the live video. The corresponding position will be moved to the center of the live video and zoomed out.

- One-touch Patrol

Click  to call one-touch patrol. For detailed information of setting one-touch patrol, refer to **4.4.5 One-touch Patrol**.

- One-touch Park

Click  to save the current view as the preset No. 32 and start park at the the current position.

4.4.3 Setting / Calling a Preset

Purpose:

A preset is a predefined image position. For the defined preset, you can click the calling button to quickly view the desired image position.

● **Setting a Preset:**

Steps:

1. In the PTZ control panel, select a preset number from the preset list.

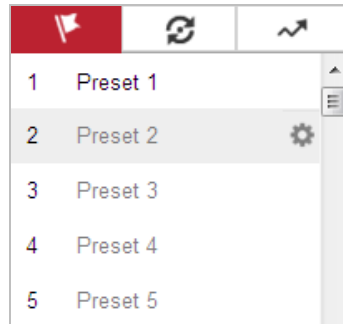


Figure 4-6 Setting a Preset

2. Use the PTZ control buttons to move the lens to the desired position.
 - Pan the speed dome to the right or left.
 - Tilt the speed dome up or down.
 - Zoom in or out.
 - Refocus the lens.
3. Click  to finish the setting of the current preset.
4. Edit a preset name by double clicking on the default name such as preset 1. (The pre-defined presets are named already and not configurable. Please refer to the user manual for detailed function description.)
5. You can click  to delete the preset.



You can configure up to 256 presets.

● **Calling a Preset:**

In the PTZ control panel, select a defined preset from the list and click  to call the preset.

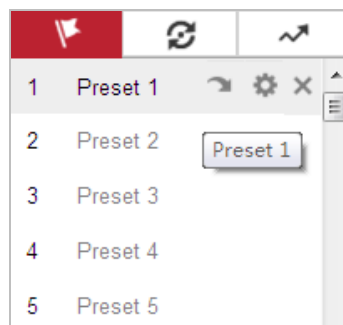


Figure 4-7 Calling a Preset

For convenient preset selection, refer to the following steps to navigate to the preset you want.

Steps:

1. Select any preset from the list.
2. Click the preset number you need on the keyboard.



- The following presets are predefined with special commands. You can only call them but not configure them. For instance, preset 99 is the “Start auto scan”. If you call the preset 99, the speed dome starts auto scan function.
- Pattern function varies depending on the models of speed dome.

Table 4-4 Special Presets

Preset	Function	Preset	Function
33	Auto flip	92	Start to set limit stops
34	Back to initial position	93	Set limit stops manually
35	Call patrol 1	94	Remote reboot
36	Call patrol 2	95	Call OSD menu
37	Call patrol 3	96	Stop a scan
38	Call patrol 4	97	Start random scan
39	Day mode (IR cut filter in)	98	Start frame scan
40	Night mode (IR cut filter out)	99	Start auto scan
41	Call pattern 1	100	Start tilt scan
42	Call pattern 2	101	Start panorama scan
43	Call pattern 3	102	Call patrol 5
44	Call pattern 4	103	Call patrol 6
45	One-touch Patrol	104	Call patrol 7
90	Wiper	105	Call patrol 8

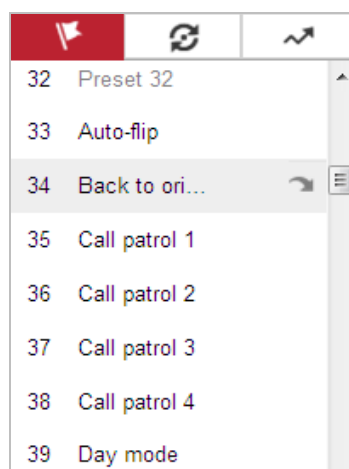


Figure 4-8 Special Preset



You may need to use the OSD (On Screen Display) menu when controlling the speed dome remotely. To display the OSD menu on the live view screen, you can call the preset number 95.

4.4.4 Setting / Calling a Patrol

Purpose:

A patrol is a memorized series of preset function. It can be configured and called on the patrol settings interface. There are up to 8 patrols for customizing. A patrol can be configured with 32 presets.

Before you start:

Please make sure that the presets you want to add into a patrol have been defined.

● **Setting a Patrol:**

Steps:

1. In the PTZ control panel, click  to enter the patrol settings interface.
2. Select a patrol number from the list and click .
3. Click  to enter the adding interface of preset, as shown in Figure 4-9.



Figure 4-9 Adding Presets

4. Configure the preset number, patrol time and patrol speed.

Name	Description
Patrol Time	It is the duration staying on one patrol point. The speed dome moves to another patrol point after the patrol time.
Patrol Speed	It is the speed of moving from one preset to another.

5. Click **OK** to save a preset into the patrol.
6. Repeat the steps from 3 to 5 to add more presets.

7. Click **OK** to save all the patrol settings.

● **Calling a Patrol:**

In the PTZ control panel, select a defined patrol from the list and click ► to call the patrol, as shown in Figure 4-10.

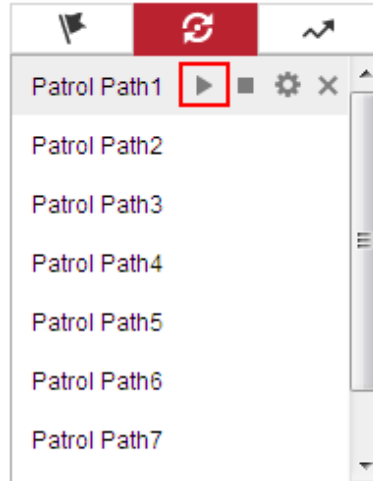


Figure 4-10 Calling a Preset

4.4.5 One-touch Patrol

Purpose:

One-touch patrol is an automatically created patrol. The system automatically add preset No.1 to No.32 to the patrol path 8. You can call the one-touch patrol and the speed dome moves as the patrol path 8 automatically.

Steps:

1. Set preset No.1 to No.32. Refer to **4.4.3 Setting / Calling a Preset** for detailed information of setting preset.
2. Call preset No. 45, and the speed dome moves as patrol path 8.
3. Click  to enter the patrol settings interface and start/stop one-touch patrol, edit the patrol time and the speed.
4. You can click  of the PTZ control panel to start one-touch patrol.

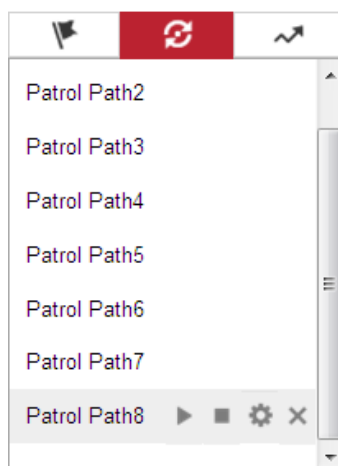


Figure 4-11 Patrol Path 8

4.4.6 Setting / Calling a Pattern

Purpose:

A pattern is a memorized series of pan, tilt, zoom, and preset functions. It can be called on the pattern settings interface. There are up to 4 patterns for customizing.



Pattern function varies depending on speed dome models.

● **Setting a Pattern:**

Steps:

1. In the PTZ control panel, click  to enter the pattern settings interface.
2. Select a pattern number from the list as shown in Figure 4-12.

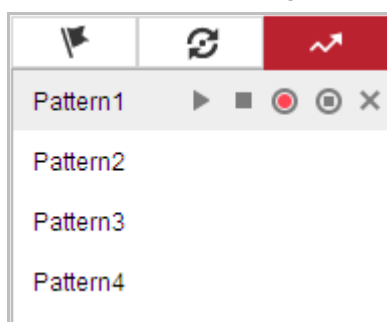


Figure 4-12 Patterns Settings Interface

3. Click  to enable recording the panning, tilting and zooming actions.
4. Use the PTZ control buttons to move the lens to the desired position after the information of **PROGRAM PATTERN REMAINNING MEMORY(%)** is displayed on the screen.
 - Pan the speed dome to the right or left.
 - Tilt the speed dome up or down.
 - Zoom in or out.

- Refocus the lens.
5. Click  to save all the pattern settings.

- **Buttons on the Patterns interface:**

Buttons	Description
	Start the selected patrol/pattern.
	Stop current patrol/pattern.
	Set the selected preset/patrol.
	Delete the selected preset/patrol/pattern.
	Start recording a pattern.
	Stop recording the pattern.



- These 4 patterns can be operated separately and with no priority level.
- When configuring and calling the pattern, proportional pan is valid; the limit stops and auto flip will be invalid; and the 3D positioning operation is not supported.

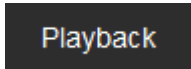
4.5 Playback

Purpose:

This section explains how to view the video files stored in the network disks or memory cards.

4.5.1 Play Back Video Files

Steps:

1. Click  on the menu bar to enter playback interface.

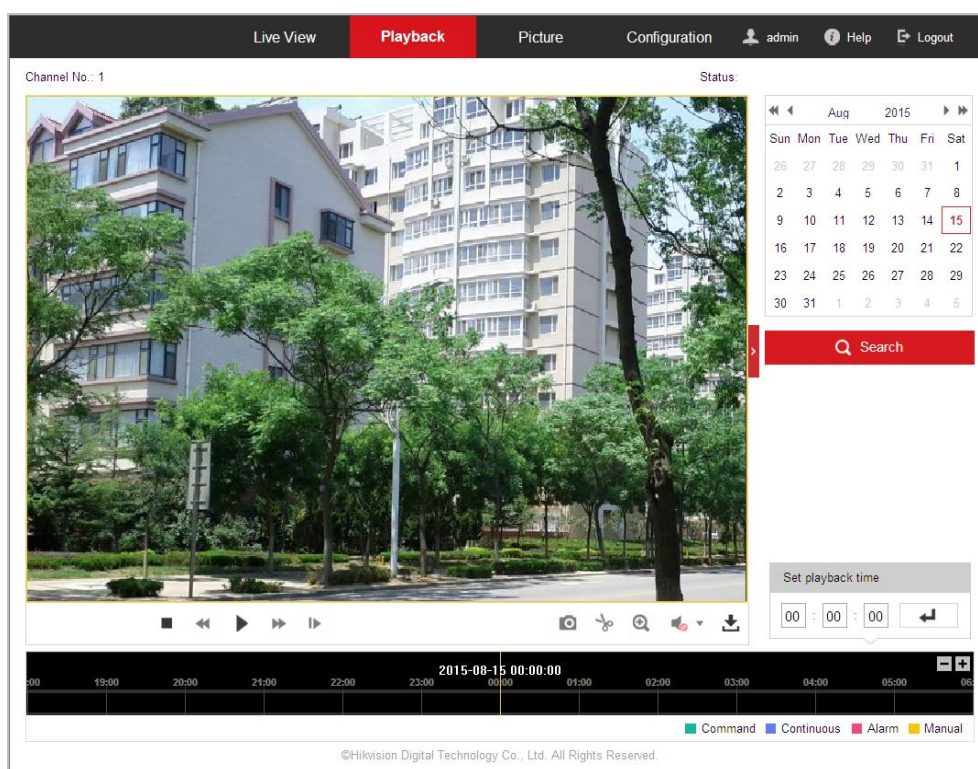


Figure 4-13 Playback Interface

2. Select the date and click

Search

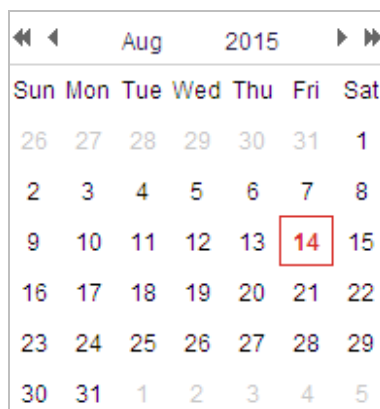


Figure 4-14 Search Video

3. Click  to play the video files found on this date.

The toolbar on the bottom of Playback interface can be used to control playing process.



Figure 4-15 Playback Toolbar

Table 4-5 Description of the buttons

Button	Operation	Button	Operation
	Play		Capture a picture
	Pause		Start/Stop clipping video files
	Stop		Audio on and adjust volume/Mute
	Speed down		Download
	Speed up		Playback by frame
	Enable/Disable digital zoom		



You can choose the file paths locally for downloaded playback video files and pictures in Local Configuration interface. Please refer to **Section 4.1 Configuring Local Parameters** for details.

Drag the progress bar with the mouse to locate the exact playback point. You can also input the time and click  to locate the playback point in the **Set playback time** field. You can also click  to zoom out/in the progress bar.

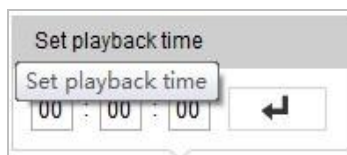


Figure 4-16 Set Playback Time

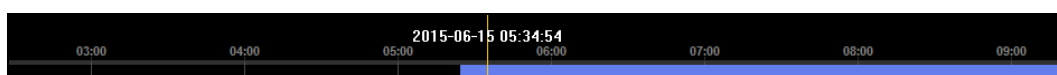


Figure 4-17 Progress Bar

The different colors of the video on the progress bar stand for the different video types as shown in Figure 4-18.

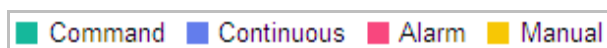


Figure 4-18 Video Types

4.5.2 Downloading Video Files

Steps:

1. Click  on the playback interface. The pop-up menu is shown in Figure 4-19.

- Set the start time and end time. Click **Search**. The corresponding video files are listed on the left.

Figure 4-19 Video Downloading interface

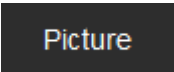
- Check the checkbox in front of the video files that you need to download.
- Click  **Download** to download the video files.

4.6 Pictures

Purpose:

This section explains how to view the captured picture files stored in the network disks or the memory cards and download the captured pictures.

Steps:

- Click  on the menu bar to enter picture interface.

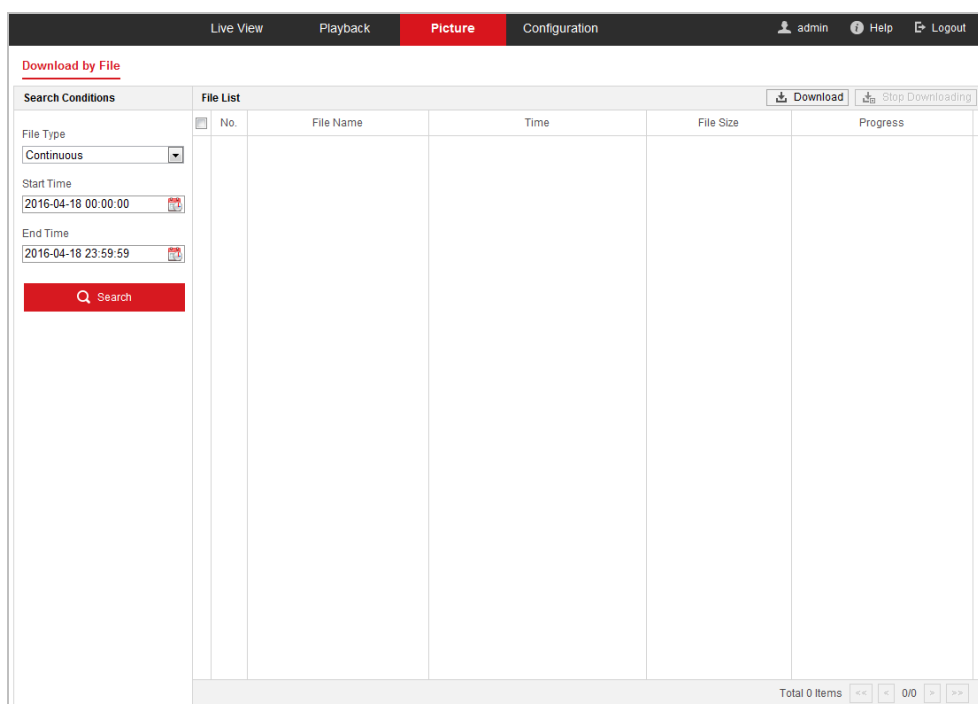


Figure 4-20 Picture Interface

2. Select the file type of capturing the pictures from the list as timing, alarm, motion, etc.
3. Set the start time and end time. Click **Search**. The corresponding picture files will be listed.
4. Check the checkbox in front of the files that you need to download.
5. Click  **Download** to download the files.

Chapter 5 System Configuration

5.1 Storage Settings

Before you start:

To configure record settings, please make sure that you have the network storage device within the network or the memory card inserted in your speed dome.

5.1.1 Configuring Recording Schedule

Purpose:

There are two kinds of recording for the speed domes: manual recording and scheduled recording. In this section, you can follow the instructions to configure the scheduled recording. By default, the record files of scheduled recording are stored in the memory card (if supported) or in the network disk.

Steps:

1. Enter the Record Schedule settings interface:

Configuration > Storage > Schedule Settings > Record Schedule

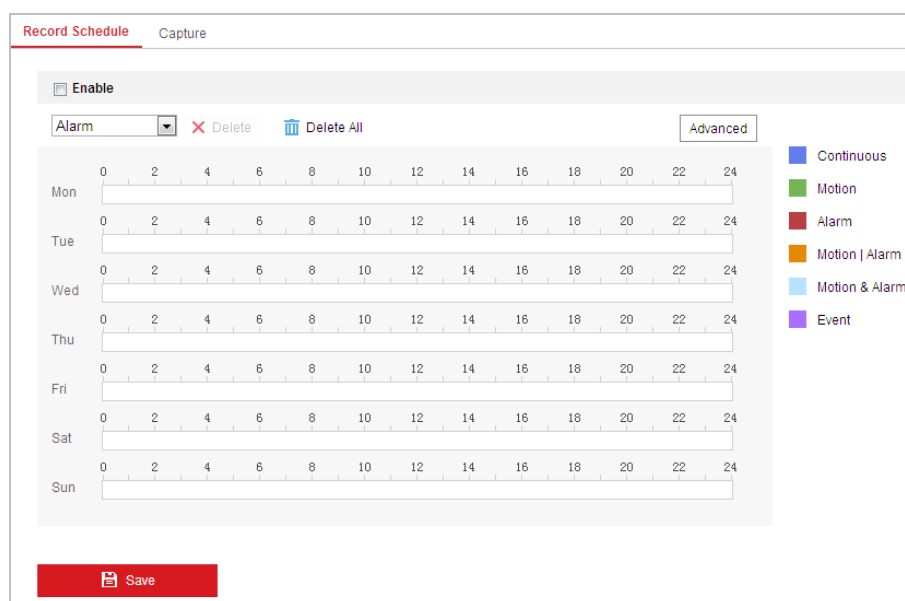


Figure 5-1 Recording Schedule Interface

2. Check the checkbox of **Enable** to enable scheduled recording.
3. To set the advanced settings of the speed dome, click Advanced to enter the advanced settings interface.

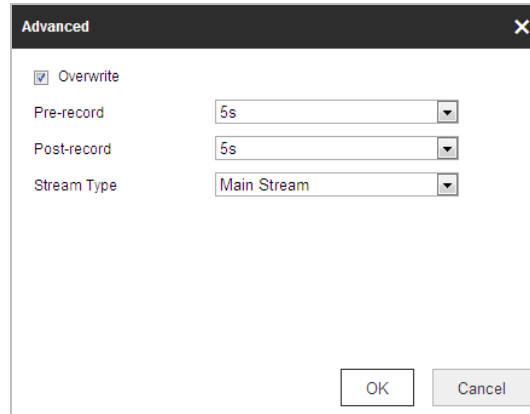


Figure 5-2 Record Parameters

- **Pre-record:** The time you set to start recording before the scheduled time or the event. For example, if an alarm triggers recording at 10:00, and the pre-record time is set as 5 seconds, the speed dome starts to record at 9:59:55.

The Pre-record time can be configured as No Pre-record, 5 s, 10 s, 15 s, 20 s, 25 s, 30 s or not limited.



The pre-record time changes according to the video bitrate.

- **Post-record:** The time you set to stop recording after the scheduled time or the event. For example, if an alarm triggered recording ends at 11:00, and the post-record time is set as 5 seconds, the speed dome records until 11:00:05.

The Post-record time can be configured as 5 s, 10 s, 30 s, 1 min, 2 min, 5 min or 10 min.

- **Stream Type:** You can select the stream type for recording; Main Stream, Sub Stream and Third Stream are selectable. If you select the sub stream, you can record for a longer time with the same storage capacity.



The Pre-record and Post-record parameters vary depending on the models of speed dome.

4. Click **OK** to save the advanced setting.
5. Select a Record Type. The record type can be Continuous, Motion, Alarm, Motion | Alarm, Motion & Alarm, and Event.
 - **Normal:** If you select Continuous, the video will be recorded automatically according to the time of the schedule.
 - **Record Triggered by Motion Detection:** If you select Motion, the video will be recorded when the motion is detected. Besides configuring the recording schedule, you have to set the motion detection area and check the checkbox of **Trigger Channel** in the Linkage Method of Motion Detection settings interface. For detailed information, please refer to Section **Motion Detection**.
 - **Record Triggered by Alarm:** If you select Alarm, the video will be recorded when the alarm is triggered via the external alarm input channels. Besides configuring the recording schedule, you have to set the Alarm Type and check the checkbox of **Trigger Channel** in the Linkage Method of Alarm Input settings interface. For detailed

information, please refer to Section **Alarm Input**.

- Record Triggered by Motion & Alarm: If you select Motion & Alarm, the video will be recorded when the motion and alarm are triggered at the same time. Besides configuring the recording schedule, you have to configure the settings on the Motion Detection and Alarm Input settings interfaces.
- Record Triggered by Motion | Alarm: If you select Motion | Alarm, the video will be recorded when the external alarm is triggered or the motion is detected. Besides configuring the recording schedule, you have to configure the settings on the Motion Detection and Alarm Input settings interfaces.
- Record Triggered by VCA events: If you select VCA, the video will be recorded when the either of the VCA events is triggered. Besides configuring the recording schedule, you have to configure the settings on the VCA interface.



VCA function varies depending on the models of speed dome.

- Record Triggered by Event: If you select to record by event, the video will be recorded when any of the events is triggered.

6. Click  to save the settings.

5.1.2 Configuring Capture Schedule

Purpose:

You can configure the scheduled snapshot and event-triggered snapshot. The captured picture can be stored in the local storage or network storage.

Steps:

1. Enter the Snapshot settings interface:

Configuration > Storage > Storage Settings > Capture

Figure 5-3 Snapshot Settings

2. Click **Capture Schedule** to enter the Capture Schedule interface.
3. Select the timeline of a certain day, click and drag the left button of the mouse to set the capture schedule (the start time and end time of the recording task).
4. After you set the scheduled task, you can click  and copy the task to other days (optional).
5. After setting the capture schedule, you can click a capture segment to display the segment capture settings interface to edit the segment capture parameters. (optional)

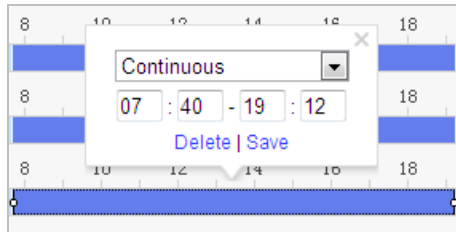


Figure 5-4 Segment Snapshot Settings

6. Click **Advanced** to enter the advanced setting interface. You can select the stream type of the capture.
7. Click **Capture Parameters** to enter the Capture Parameters Interface.
8. Check the **Enable Timing Snapshot** checkbox to enable continuous snapshot, and configure the schedule of timing snapshot. Check the **Enable Event-triggered Snapshot** checkbox to enable event-triggered snapshot.
9. Select the format, resolution, quality of the snapshot.
10. Set the time interval between two snapshots.
11. Click **Save** to save the settings.

Uploading to FTP



Please make sure that the FTP server is online.

You can follow below configuration instructions to upload the snapshots to FTP.

● Upload continuous snapshots to FTP

Steps:

- 1) Configure the FTP settings and check **Upload Picture** checkbox in FTP Settings interface. Please refer to **Section 6.1.2 Configuring FTP Settings** for more details to configure FTP parameters.
- 2) Check the **Enable Timing Snapshot** checkbox.
- 3) Click **Edit** to set the snapshot schedule. Refer to **Section 5.2.1 Configuring Motion Detection**.

● Upload event-triggered snapshots to FTP

Steps:

- 1) Configure the FTP settings and check **Upload Picture** checkbox in FTP Settings interface. Please refer to **Section 6.1.2 Configuring FTP Settings** for more details to configure FTP parameters.
- 2) Check **Upload to FTP** checkbox in Motion Detection Settings or Alarm Input interface. Refer to **Section 5.2.1 Configuring Motion Detection**.
- 3) Check the **Enable Event-triggered Snapshot** checkbox.

5.1.3 Configuring Net HDD

Before you start:

The network disk should be available within the network and properly configured to store the recorded files, log files, etc.

Steps:

- **Add the network disk**

1. Enter the NAS (Network-Attached Storage) settings interface:

Configuration > Storage > Storage Management > Net HDD

HDD No.	Server Address	File Path	Type	Delete
1	10.10.36.61	/cxy_1	NAS	X
2	10.10.36.252	/dvr/yangjian_1	NAS	X
3			NAS	X

Mounting Type: User Name: Password:

Figure 5-5 Select Net HDD Type

2. Enter the IP address and the file path of the network disk.
3. Select the mounting type. NFS and SMB/CIFS are selectable. You can set the user name and password to guarantee the security if SMB/CIFS is selected.



Please refer to the *NAS User Manual* for creating the file path.



- For your privacy and to better protect your system against security risks, we strongly recommend the use of strong passwords for all functions and network devices. The password should be something of your own choosing (using a minimum of 8 characters, including upper case letters, lower case letters, numbers and special characters) in order to increase the security of your product.
- Proper configuration of all passwords and other security settings is the responsibility of the installer and/or end-user.

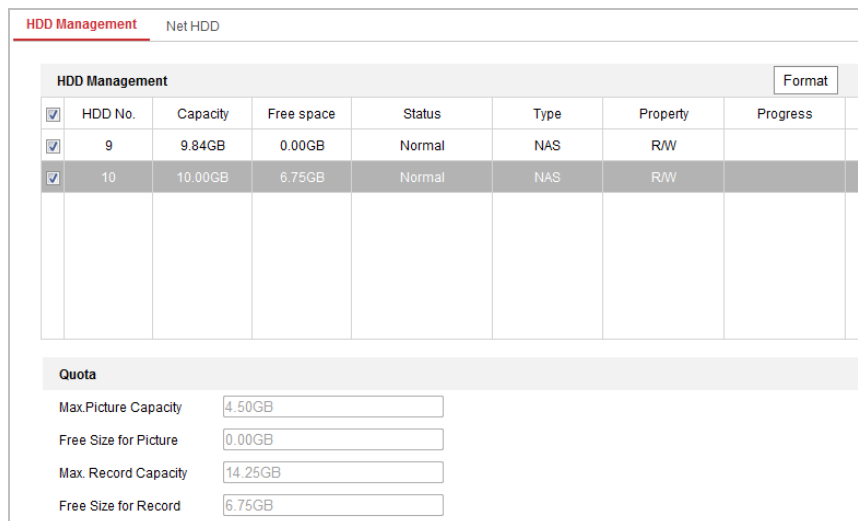
4. Click  **Save** to add the network disk.



After having saved successfully, you need to reboot the speed dome to activate the settings.

- **Initialize the added network disk.**

1. Enter the HDD settings interface (**Configuration > Storage > Storage Management > HDD Management**), in which you can view the capacity, free space, status, type and property of the disk.



The screenshot shows the 'HDD Management' interface. At the top, there's a 'Net HDD' section. Below it is a table with columns: HDD No., Capacity, Free space, Status, Type, Property, and Progress. There are two rows of disks, both with status 'Normal'. Below the table is a 'Quota' section with input fields for Max. Picture Capacity, Free Size for Picture, Max. Record Capacity, and Free Size for Record.

HDD No.	Capacity	Free space	Status	Type	Property	Progress
9	9.84GB	0.00GB	Normal	NAS	R/W	
10	10.00GB	6.75GB	Normal	NAS	R/W	

Quota

Max. Picture Capacity: 4.50GB

Free Size for Picture: 0.00GB

Max. Record Capacity: 14.25GB

Free Size for Record: 6.75GB

Figure 5-6 Storage Management Interface

2. If the status of the disk is **Uninitialized**, check the corresponding checkbox to select the disk and click **Format** to start initializing the disk.
3. When the initialization completed, the status of disk will become **Normal** as shown in Figure 5-7.



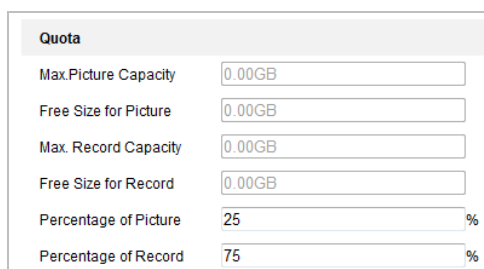
The screenshot shows the 'HDD Management' interface with a 'Set' button and a 'Format' button. The table below shows a disk with status 'Formatting'.

HDD No.	Capacity	Free space	Status	Type	Property	Progress
9	20.00GB	0.00GB	Formatting	NAS	R/W	

Figure 5-7 View Disk Status

- **Define the Quota for Record and Pictures**

1. Input the quota percentage for picture and for record.
2. Click **Save** and refresh the browser page to activate the settings.



The screenshot shows the 'Quota' settings interface with input fields for Max. Picture Capacity, Free Size for Picture, Max. Record Capacity, Free Size for Record, Percentage of Picture, and Percentage of Record.

Quota

Max. Picture Capacity: 0.00GB

Free Size for Picture: 0.00GB

Max. Record Capacity: 0.00GB

Free Size for Record: 0.00GB

Percentage of Picture: 25 %

Percentage of Record: 75 %

Figure 5-8 Quota Settings



- Up to 8 NAS disks can be connected to the speed dome.
- To initialize and use the memory card after insert it to the speed dome, please refer to the steps of NAS disk initialization

5.2 Basic Event Configuration

Purpose:

This section explains how to configure the network speed dome to respond to alarm events, including motion detection, video tampering alarm input, alarm output and exception. These events can trigger the alarm actions, such as Send Email, Notify Surveillance Center, etc.

For example, when motion detection is triggered, the network speed dome sends a notification to an e-mail address.



- On the event configuration page, click  to show the PTZ control panel or click  to hide it.
- Click the direction buttons to control the pan/tilt movements.
- Click the zoom/iris/focus buttons to realize lens control.
- The functions vary depending on the models of speed dome.

5.2.1 Configuring Motion Detection

Purpose:

Motion detection is a feature which can trigger alarm actions and actions of recording videos when the motion occurred in the surveillance scene.

Steps:

1. Enter the motion detection setting interface:
Configuration > Event > Basic Event > Motion Detection
2. Check the checkbox of the **Enable Motion Detection** to enable this function.
You can check the **Enable Dynamic Analysis for Motion** checkbox if you want the detected object get marked with rectangle in the live view.
3. Select the configuration mode as **Normal** or **Expert** and set the corresponding motion detection parameters.
 - **Normal**



Figure 5-9 Motion Detection Settings-Normal

Steps:

- (1) Click **Draw Area** and drag the mouse on the live video image to draw a motion detection area.
- (2) Click **Stop Drawing** to finish drawing.



- You can draw up to 8 motion detection areas on the same image.
- You can click **Clear All** to clear all of the areas.

- (3) Move the slider **Sensitivity** to set the sensitivity of the detection.

● Expert

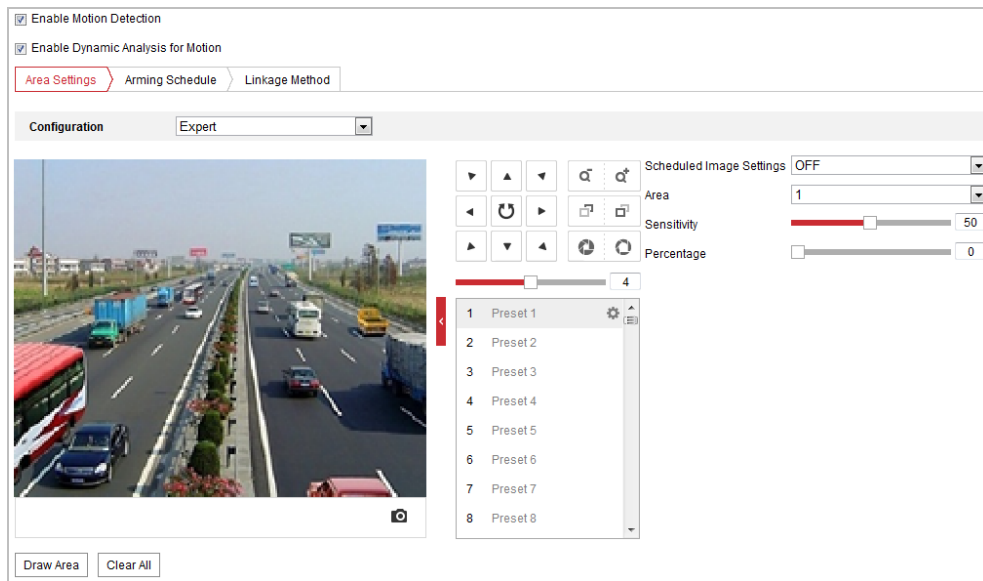


Figure 5-10 Motion Detection Settings-Expert

Steps:

- (1) Set the **Schedule Image Settings**, there are **OFF**, **Auto-Switch** and **Scheduled-Switch** selectable. If the schedule image switch mode is enabled, you can configure the detection rule for the day and night separately.
OFF: Disable the day and night switch.
Auto-Switch: Switch the day and night mode according to the illumination automatically.
Scheduled-Switch: Switch to the day mode at 6:00 a.m., and switch to the night mode at 18:00 p.m..
- (2) Select **Area No.** to configure in the dropdown list.
- (3) Set the values of sensitivity and proportion of object on area.
Sensitivity: The greater the value is, the easier the alarm will be triggered.
Proportion of Object on Area: When the size proportion of the moving object exceeds the predefined value, the alarm will be triggered. The less the value is, the easier the alarm will be triggered.
4. Set the **Arming Schedule** for Motion Detection.
 - (1) Click **Arming Schedule** tab to enter the arming schedule setting interface.

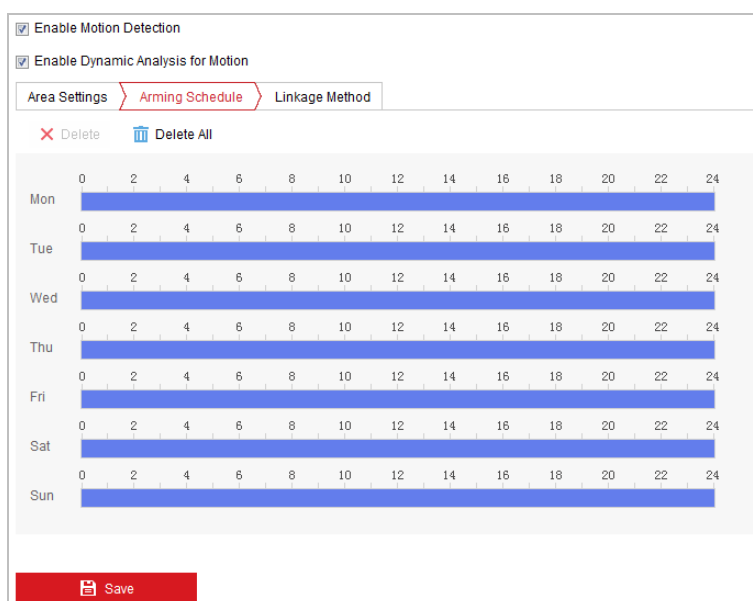


Figure 5-11 Arming Schedule

- (2) Select the timeline of a certain day, click and drag the mouse to set the arming schedule (the start time and end time of the arming task).
- (3) After you set the scheduled task, you can click  and copy the task to other days (optional).



Figure 5-12 Arming Time Schedule

- (4) After setting the arming schedule, you can click a segment to display the segment arming settings interface to edit the segment record parameters (optional).

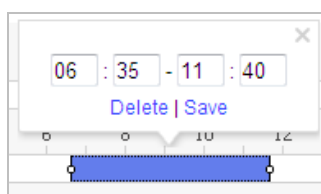


Figure 5-13 Segment Arming Settings

- (5) Click  to save the settings.



The time of each period cannot be overlapped. Up to 8 periods can be configured for each day.

5. Set the **Alarm Actions** for Motion Detection.

Click **Linkage Method** tab to enter the **Linkage Method** interface.

You can specify the linkage method when an event occurs. The following contents are about how to configure the different types of linkage method.

Normal Linkage	Trigger Alarm Output	Trigger Recording
☐ Send Email	☐ A->1	☐ A1
☐ Notify Surveillance Center		
☐ Upload to FTP/Memory Card/...		

Figure 5-14 Linkage Method

Check the checkbox to select the linkage method. Notify Surveillance Center, Send Email, Upload to FTP/Memory/NAS, Trigger Alarm Output and Trigger Recording are selectable.

- **Notify Surveillance Center**

Send an exception or alarm signal to remote management software when an event occurs.

- **Send Email**

Send an email with alarm information to a user or users when an event occurs.



To send the Email when an event occurs, you need to refer to **Section Configuring Email Settings** to set the Email parameters.

- **Upload to FTP/Memory/NAS**

Capture the image when an alarm is triggered and upload the picture to a FTP server.



You need a FTP server and set FTP parameters first. Refer to **Section Configuring FTP Settings** for setting FTP parameters.

- **Trigger Alarm Output**

Trigger one or more external alarm outputs when an event occurs.



To trigger an alarm output when an event occurs, please refer to **Section 5.2.4 Configuring Alarm Output** to set the alarm output parameters.

- **Trigger Recording**

Record a video when an event occurs.



You have to set the recording schedule to realize this function. Please refer to **Section 5.1.1 Configuring Recording Schedule** for settings the recording schedule.

5.2.2 Configuring Video Tampering Alarm

Purpose:

You can configure the speed dome to trigger the alarm actions when the lens is covered.

Steps:

1. Enter the Video Tampering settings interface :
Configuration > Event > Basic Event > Video Tampering

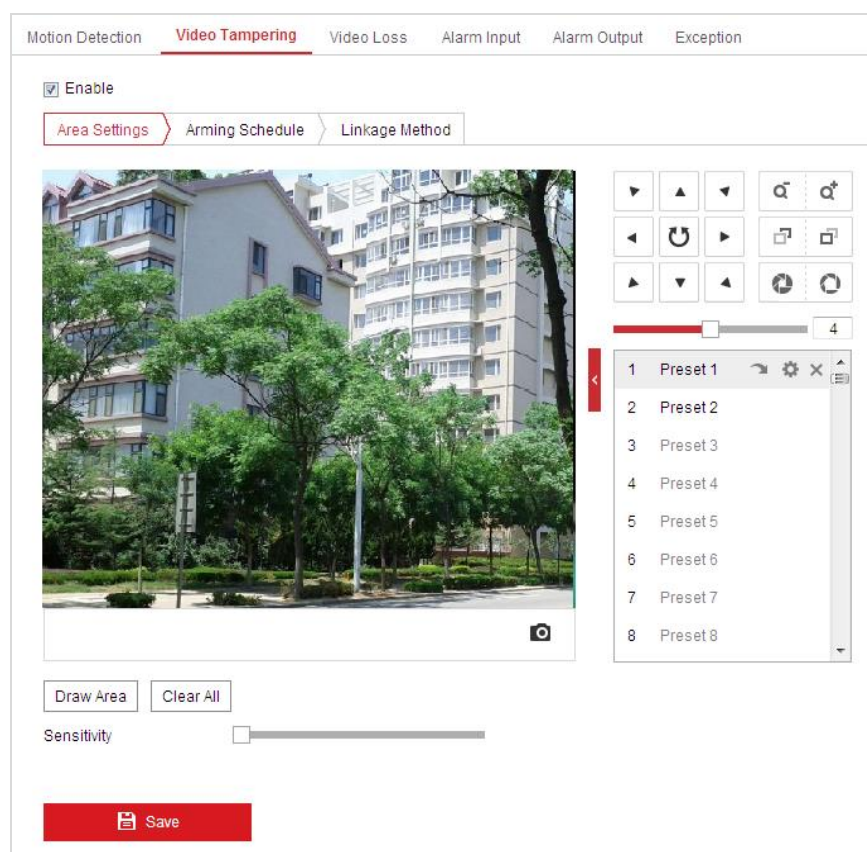


Figure 5-15 Tampering Alarm

2. Check **Enable** checkbox to enable the tampering detection.
3. Click **Arming Schedule** tab to enter the arming schedule setting interface. The arming schedule configuration is the same as the setting of the arming schedule for motion detection. Refer to **Section 5.2.1 Configuring Motion Detection**.
4. Click **Linkage Method** tab to select the linkage method taken for tampering, notify surveillance center, send email and trigger alarm output are selectable. Refer to **Section 5.2.1 Configuring Motion Detection**.
5. Click **Save** to save the settings.

5.2.3 Configuring Alarm Input

Steps:

1. Enter the Alarm Input settings interface:
Configuration > Event > Basic Event > Alarm Input
2. Choose the alarm input No. and the Alarm Type. The alarm type can be NO (Normally Open) and NC (Normally Closed).
3. Edit the name in **Alarm Name** (cannot copy) to set a name for the

alarm input (optional).

Figure 5-16 Alarm Input Settings

4. Click **Arming Schedule** tab to enter the arming schedule setting interface. The arming schedule configuration is the same as the setting of the arming schedule for motion detection. Refer to **Section 5.2.1 Configuring Motion Detection**.
5. Click **Linkage Method** tab to select the linkage method taken for alarm input, including Notify Surveillance Center, Send Email, Upload to FTP/Memory Card/NAS, Trigger Alarm Output and Trigger Recording. Refer to **Section 5.2.1 Configuring Motion Detection**.
6. You can also choose the PTZ linking for the alarm input. Check the relative checkbox and select the No. to enable Preset Calling, Patrol Calling or Pattern Calling.
7. You can copy your settings to other alarm inputs.
8. Click **Save** to save the settings.

Figure 5-17 Linkage Method

5.2.4 Configuring Alarm Output

Steps:

1. Enter the Alarm Output settings interface:
Configuration > Event > Basic Event > Alarm Output
2. Select one alarm output channel in the **Alarm Output** dropdown list.
3. Set a name in (cannot copy) for the alarm output (optional).
4. The **Delay** time can be set to **5sec, 10sec, 30sec, 1min, 2min, 5min, 10min** or **Manual**. The delay time refers to the time duration that the alarm output remains in effect after alarm occurs.
5. Click Arming Schedule tab to enter the arming schedule setting interface. The time schedule configuration is the same as the settings of the arming schedule for motion detection. Refer to **Section 5.2.1 Configuring Motion Detection**.

Alarm Output No. IP Address

Delay Alarm Name (cannot copy)

Alarm Status (cannot copy)

Arming Schedule

✖ Delete 🗑 Delete All

	0	2	4	6	8	10	12	14	16	18	20	22	24
Mon	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Tue	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Wed	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Thu	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Fri	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Sat	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Sun	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

🖨 Manual Alarm 📄 Copy to... 💾 Save

Figure 5-18 Alarm Output Settings

6. You can copy the settings to other alarm outputs.
7. Click 💾 Save to save the settings.

5.2.5 Handling Exception

The exception type can be HDD full, HDD error, network disconnected, IP address conflicted and illegal login to the speed domes.

Steps:

1. Enter the Exception settings interface:
Configuration > Event > Basic Event > Exception
2. Check the checkbox to set the actions taken for the Exception alarm. Refer to **Section 5.2.1 Configuring Motion Detection**.

Exception Type: HDD Full	
☐ Normal Linkage	☐ Trigger Alarm Output
☐ Send Email	☐ A->1
☐ Notify Surveillance Center	☐ A->2

Save

Figure 5-19 Exception Settings

3. Click Save to save the settings.

5.3 Smart Event Configuration



The functions vary depending on the models of speed dome.

5.3.1 Detecting Audio Exception

Purpose:

When you enable this function and audio exception occurs, the alarm actions will be triggered.

Steps:

1. Enter the video audio exception detection interface:

Configuration > Event > Smart Event > Audio Exception Detection

Figure 5-20 Audio Exception Detection

2. Check the checkbox of **Audio Loss Detection** to enable the audio input exception detection.
3. Check the checkbox of **Sudden Increase of Sound Intensity Detection** checkbox to enable the sudden rise detection.
 - **Sensitivity:** Range [1-100], the smaller the value the more severe the sound change will trigger the detection.
 - **Sound Intensity Threshold:** Range [1-100], it can filter the sound in the environment, the louder the environment sound, the higher the value should be. You can adjust it according to the actual environment.
4. Check the checkbox of **Sudden Decrease of Sound Intensity Detection** checkbox to enable the sudden drop detection.

Sensitivity: Range [1-100], the smaller the value the more severe the sound change will trigger the detection.
5. Click **Arming Schedule** tab to enter the arming schedule setting interface. The time schedule configuration is the same as the settings of the arming schedule for motion

detection. Refer to **Section 5.2.1 Configuring Motion Detection**.

6. Click  tab to select the linkage method taken for the audio input exception, Notify Surveillance Center, Send Email, Trigger Alarm Output and Trigger Recording are selectable. Refer to **Section 5.2.1 Configuring Motion Detection**.
7. Click  to save the settings.

5.3.2 Configuring Face Detection

Purpose:

After the face detection is enabled, a face appears in the surveillance area, it will be detected and certain actions may be triggered by the detection.

Steps:

1. Check the **Enable Face Detection** checkbox.
2. (Optional) You can check the Enable Dynamic Analysis for Face Detection checkbox if you want the detected face get marked with rectangle in the live view.

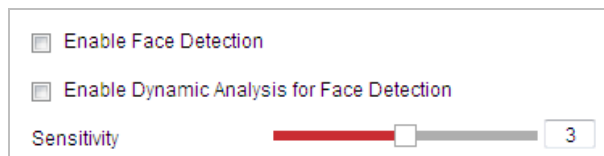
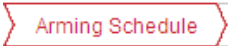


Figure 5-21 Configuring Face Detection

3. Configure the sensitivity for face detection.
Sensitivity: Range [1-5]. The value of the sensitivity defines the size of the object which can trigger the alarm, when the sensitivity is high, a very small object can trigger the alarm.
4. Click  tab to enter the arming schedule setting interface. The time schedule configuration is the same as the settings of the arming schedule for motion detection. Refer to **Section 5.2.1 Configuring Motion Detection**.
5. Click  tab to select the linkage method taken for the video loss alarm, Notify surveillance center, send email, upload to FTP, trigger channel, smart tracking and trigger alarm output are selectable. Refer to **Section 5.2.1 Configuring Motion Detection**.
6. Click  to save the settings.

5.3.3 Configuring Intrusion Detection

Intrusion detection can set an area in the surveillance scene and once the area is entered, a set of alarm action is triggered.

Steps:

1. Enter the intrusion detection interface:

Configuration > Events > Smart Event > Intrusion Detection

2. Check the **Enable Intrusion Detection** checkbox.

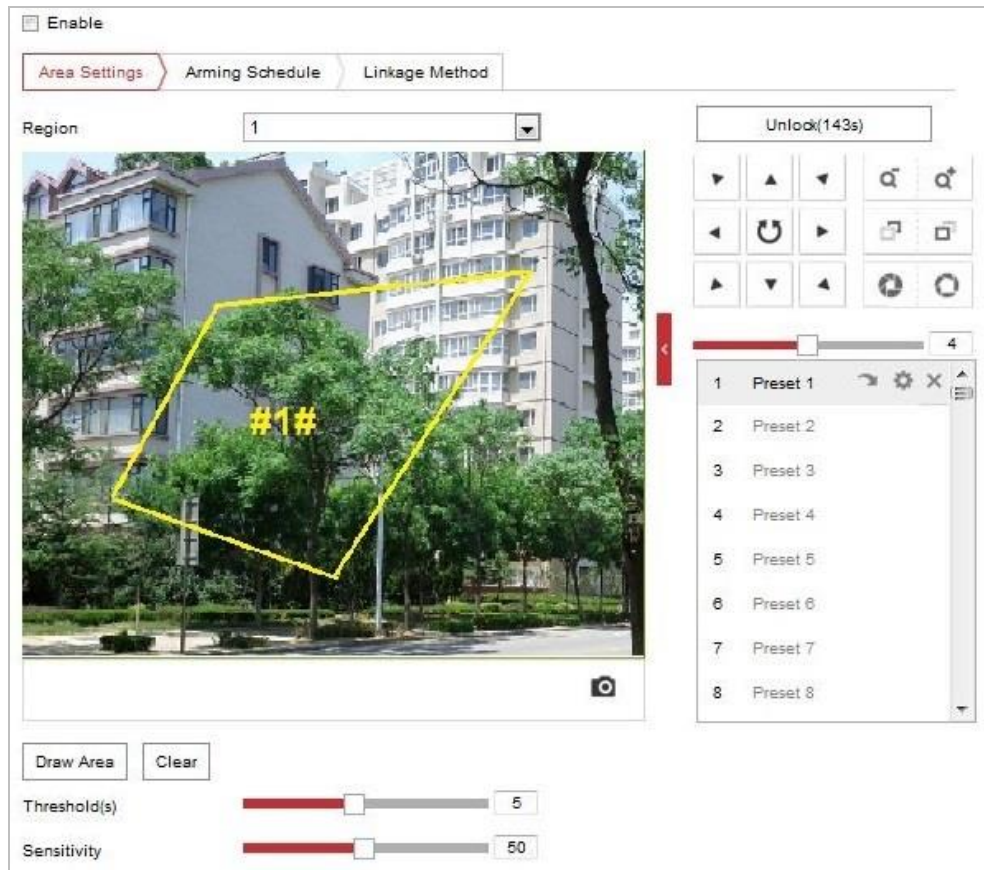


Figure 5-22 Configuring Intrusion Area

3. The event triggered and park action related PTZ movement will be locked for 180 seconds after you enter the intrusion detection interface. Optionally, you can click the

Unlock(69s) button to manually activate the movement, or lock the movement when the button turns to Lock by clicking it.

4. Draw area.

- 1) Select the Region No.in dropdown list.
- 2) Click Draw Area to draw a rectangle on the image as a defense region.
- 3) Click on the image to specify a corner of the rectangle, and right-click the mouse after four corners are configured.



Up to four areas are supported. You can click Clear to clear the areas you drawn.

5. Configure the parameters for each defense region separately.

- **Threshold:** Range [0-10s], the threshold for the time of the object loitering in the region. If you set the value as 0, alarm is triggered immediately after the object entering the region.
- **Sensitivity:** Range [1-100]. The value of the sensitivity defines the size of the object which can trigger the alarm, when the sensitivity is high, a very small object can trigger the

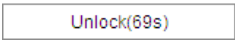
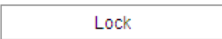
alarm.

6. Click  tab to enter the arming schedule setting interface. The time schedule configuration is the same as the settings of the arming schedule for motion detection. Refer to **Section 5.2.1 Configuring Motion Detection**.
7. Click  tab to select the linkage method taken for intrusion detection, Notify Surveillance Center, Send Email, Upload to FTP/Memory Card/NAS, Trigger Alarm Output and Trigger Recording are selectable. Refer to **Section 5.2.1 Configuring Motion Detection**.
8. Click  to save the settings.

5.3.4 Configuring Line Crossing Detection

The virtual plane detection can be adopted for the intrusion detection. Once the virtual plane is detected being traversed according to the configured direction, a set of alarm action is triggered.

Steps:

1. Enter the Line Crossing Detection interface:
Configuration > Event > Smart Event > Line Crossing Detection
2. Check the **Enable** checkbox to enable the line crossing detection function.
3. Select the Line in dropdown list to configure.
4. The event triggered and park action related PTZ movement will be locked for 180 seconds after you enter the line crossing detection interface. Optionally, you can click the  button to manually activate the movement, or lock the movement when the button turns to  by clicking it.

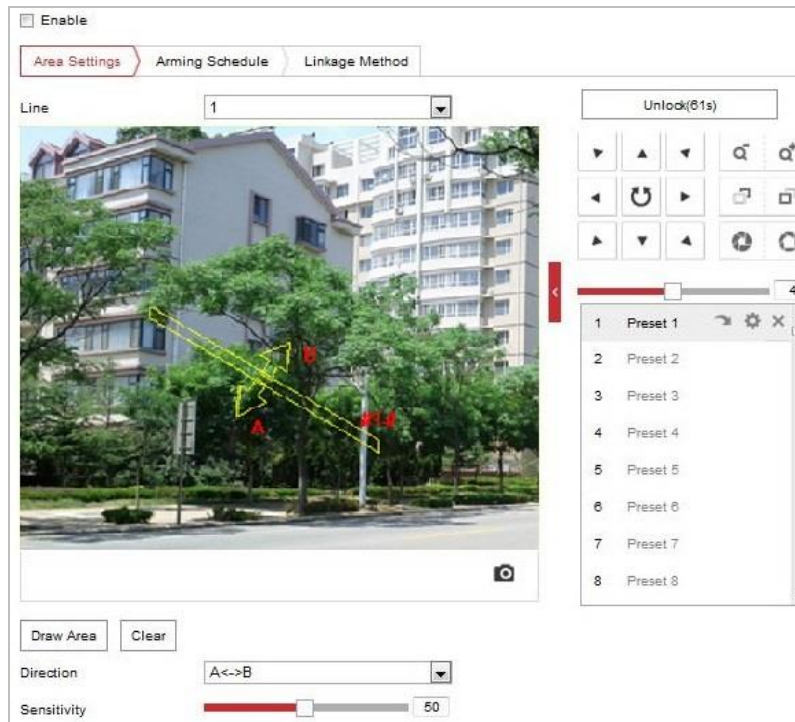


Figure 5-23 Configuring Line

5. Draw area.

- 1) Click **Draw Area** to draw a line on the image.
- 2) Click the line to switch to the editing mode.
Click and drag an end to the desired place to adjust the length and angle of the line. And click and drag the line to adjust the location.



Up to four lines are supported.

6. Configure the parameters for each defense region separately.

- **Direction:** Select the detection direction in the dropdown list, there are A<->B, A->B and B->A selectable.
- **Sensitivity:** Range [1-100]. The value of the sensitivity defines the size of the object which can trigger the alarm, when the sensitivity is high, a very small object can trigger the alarm.

7. Click **Arming Schedule** tab to enter the arming schedule setting interface. The time schedule configuration is the same as the settings of the arming schedule for motion detection. Refer to **Section 5.2.1 Configuring Motion Detection**.
8. Click **Linkage Method** tab to select the linkage method taken for the line crossing detection, Notify Surveillance Center, Send Email, Upload to FTP/Memory Card/NAS, Trigger Alarm Output and Trigger Recording are selectable. Refer to **Section 5.2.1 Configuring Motion Detection**.

9. Click  to save the settings.

5.3.5 Region Entrance Detection

Purpose:

Region entrance detection function detects people, vehicle or other objects which enter a pre-defined virtual region from the outside place, and some certain actions can be taken when the alarm is triggered.

Steps:

1. Enter the Region Entrance Detection settings interface:
Configuration > Event > Smart Event > Region Entrance Detection
2. Check the checkbox of **Enable** to enable the Region Entrance Detection function.

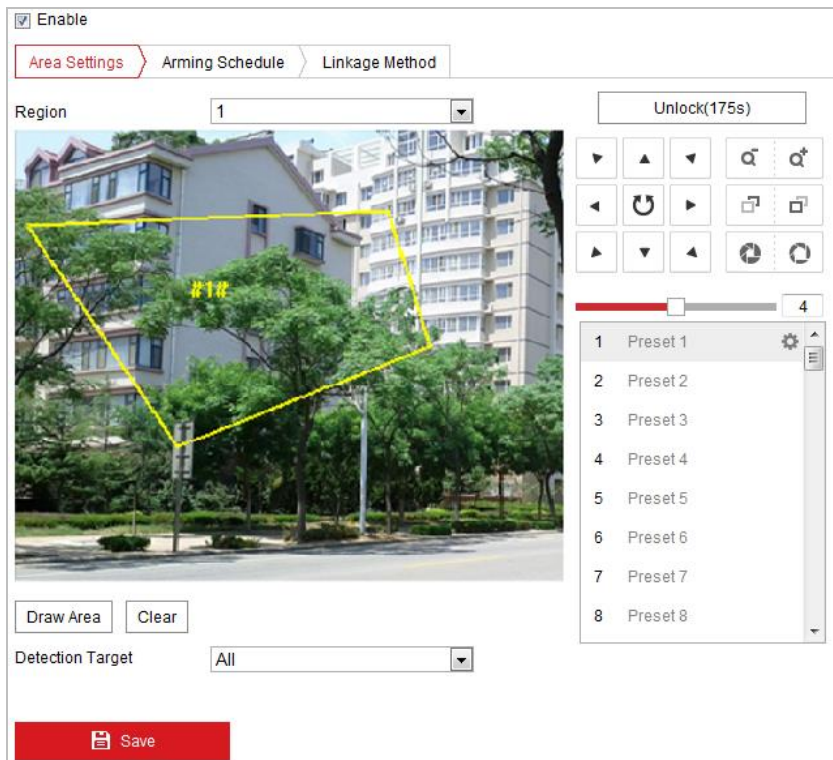
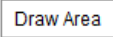
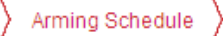


Figure 5-24 Configuring Region Entrance Detection

3. Select the region from the dropdown list for detection settings.
4. Click the  button to start the region drawing.
5. Click on the live video to specify the four vertexes of the detection region, and right click to complete drawing.
Repeat the step to configure other regions. Up to 4 regions can be set. You can click the  button to clear all pre-defined regions.
6. Set the detection target for the region entrance detection. You can select human, vehicle, or all (human & vehicle) as the detection target from the dropdown list. If Human is selected, only human beings will be identified as detection objects and as well as Vehicle.
7. Click  tab to enter the arming schedule setting interface. The time

schedule configuration is the same as the settings of the arming schedule for motion detection. Refer to **Section 5.2.1 Configuring Motion Detection**.

8. Click **Linkage Method** tab to select the linkage method taken for the video loss alarm, Notify surveillance center, send email, upload to FTP, trigger channel, smart tracking and trigger alarm output are selectable. Refer to **Section 5.2.1 Configuring Motion Detection**.
9. Click **Save** to save the settings

5.3.6 Region Exiting Detection

Purpose:

Region exiting detection function detects people, vehicle or other objects which exit from a pre-defined virtual region, and some certain actions can be taken when the alarm is triggered.

Steps:

1. Enter the Region Exiting Detection settings interface:
Configuration > Event > Smart Event > Region Exiting Detection
2. Check the checkbox of **Enable** to enable the Region Exiting Detection function.

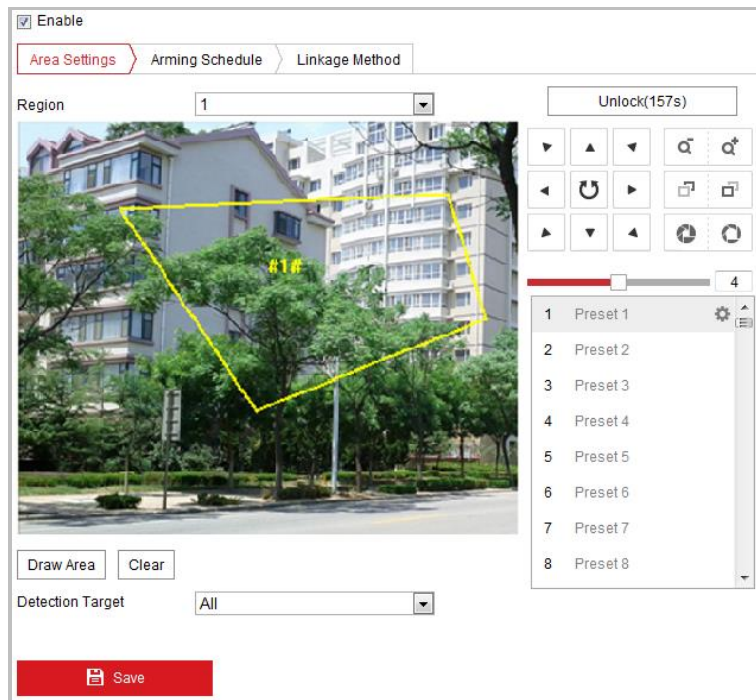


Figure 5-25 Configuring Region Exiting Detection

3. Select the region from the dropdown list for detection settings.
4. Click the **Draw Area** button to start the region drawing.
5. Click on the live video to specify the four vertexes of the detection region, and right click to complete drawing.
Repeat the step to configure other regions. Up to 4 regions can be set. You can click the **Clear** button to clear all pre-defined regions.
6. Set the detection target for the region entrance detection. You can select human, vehicle, or all (human & vehicle) as the detection target from the dropdown list. If Human is selected,

only human beings will be identified as detection objects and as well as Vehicle.

7. Click  tab to enter the arming schedule setting interface. The time schedule configuration is the same as the settings of the arming schedule for motion detection. Refer to **Section 5.2.1 Configuring Motion Detection**.
8. Click  tab to select the linkage method taken for the video loss alarm, Notify surveillance center, send email, upload to FTP, trigger channel, smart tracking and trigger alarm output are selectable. Refer to **Section 5.2.1 Configuring Motion Detection**.
9. Click  button to save the settings

5.4 PTZ Configuration



- On the event configuration page, click  to show the PTZ control panel or click  to hide it.
- Click the direction buttons to control the pan/tilt movements.
- Click the zoom/iris/focus buttons to realize lens control.
- The functions vary depending on the models of speed dome.

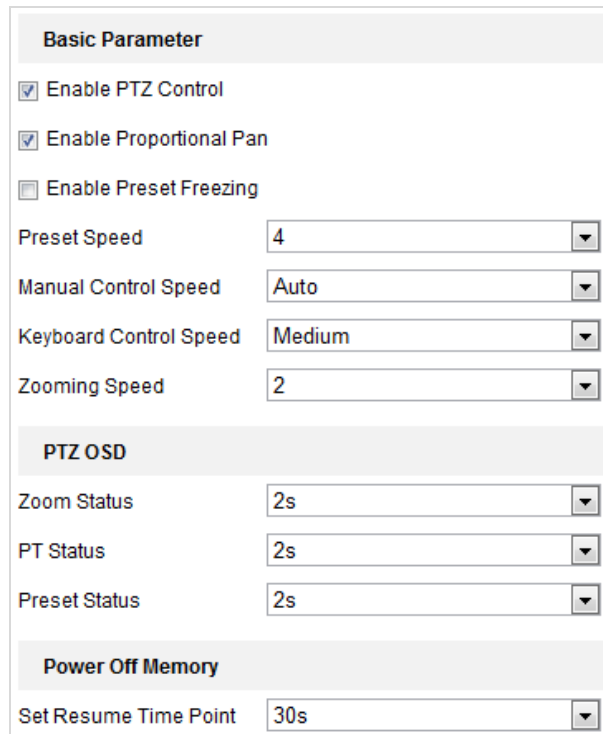
5.4.1 Configuring Basic PTZ Parameters

Purpose:

You can configure the basic PTZ parameters, including proportional pan, preset freezing, preset speed, etc.

1. Enter the Basic PTZ Parameter Configuration interface:

Configuration > PTZ > Basic Settings



The image shows a web-based configuration interface for PTZ (Pan/Tilt/Zoom) settings. It is divided into four main sections: Basic Parameter, PTZ OSD, Power Off Memory, and a Set Resume Time Point field. In the Basic Parameter section, 'Enable PTZ Control', 'Enable Proportional Pan', and 'Enable Preset Freezing' are all checked. Below these are dropdown menus for 'Preset Speed' (set to 4), 'Manual Control Speed' (set to Auto), 'Keyboard Control Speed' (set to Medium), and 'Zooming Speed' (set to 2). The PTZ OSD section contains three dropdown menus for 'Zoom Status', 'PT Status', and 'Preset Status', all set to 2s. The Power Off Memory section has a dropdown for 'Set Resume Time Point' set to 30s.

Basic Parameter	
☒	Enable PTZ Control
☒	Enable Proportional Pan
☒	Enable Preset Freezing
Preset Speed	4
Manual Control Speed	Auto
Keyboard Control Speed	Medium
Zooming Speed	2
PTZ OSD	
Zoom Status	2s
PT Status	2s
Preset Status	2s
Power Off Memory	
Set Resume Time Point	30s

Figure 5-26 Basic PTZ Configuration Interface

2. Configure the following settings:

- **Basic Parameters:** Enable/disable PTZ control, proportional pan and preset freezing, set the preset speed, keyboard control speed, and auto scan speed.
- ◆ **PTZ Control:** By default, PTZ Control function is enabled. You can uncheck the checkbox to disable the PTZ control function.



The PTZ Control function varies depending on the models of speed dome.

- ◆ **Proportional Pan:** If you enable this function, the pan/tilt speeds change according to the amount of zoom. When there is a large amount of zoom, the pan/tilt speed will be slower for keeping the image from moving too fast on the live view image.
- ◆ **Preset Freezing:** This function enables the live view to switch directly from one scene defined by a preset to another, without showing the middle areas between these two, to ensure the surveillance efficiency. It can also reduce the use of bandwidth in a digital network system.



Preset freezing function is invalid when you calling a pattern.

- ◆ **Preset Speed:** You can set the speed of a defined preset from 1 to 8.
- ◆ **Manual Control Speed:** The speed dome provides 5 control speed modes: Compatible, Pedestrian, Non-motor Vehicle, Motor Vehicle and Auto. Select it from the dropdown list.
- ◆ **Keyboard Control Speed:** Define the speed of PTZ control by a keyboard as Low, Medium or High.
- ◆ **Auto Scan Speed:** The scan speed can be set from level 1 to 40.
- ◆ **Max. Tilt-angle:** Set the tilt-angle of the speed dome from the dropdown list.

- ◆ **Zooming Speed:** The speed of zooming is adjustable.
- **PTZ OSD:** Set the on-screen display duration of the PTZ status.
 - ◆ **Zoom Status:** Set the OSD duration of zooming status as 2 seconds, 5 seconds, 10 seconds, Always Close or Always Open.
 - ◆ **PT Status:** Set the azimuth angle display duration while panning and tilting as 2 seconds, 5 seconds, 10 seconds, Always Close or Always Open.
 - ◆ **Preset Status:** Set the preset name display duration while calling the preset as 2 seconds, 5 seconds, 10 seconds, Always Close or Always Open.
- **Power-off Memory:** The speed dome can resume its previous PTZ status or actions after it restarted from a power-off. You can set the time point of which the speed dome resumes its PTZ status. You can set it to resume the status of 30 seconds, 60 seconds, 300 seconds or 600 seconds before power-off.

3. Click  to save the settings.

5.4.2 Configuring PTZ Limits

Purpose:

The speed dome can be programmed to move within the configurable PTZ limits (left/right, up/down).

Steps:

1. Enter the Limit configuration interface:

Configuration > PTZ > Limit

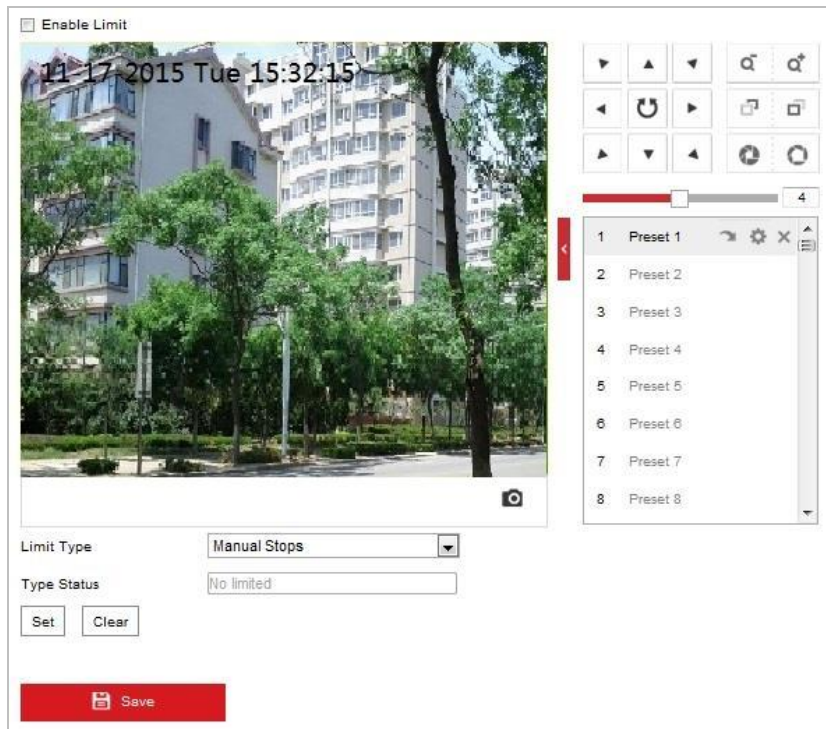


Figure 5-27 Configure the PTZ Limit

2. Click the checkbox of **Enable Limit** and choose the limit type as manual stops or scan stops.

- **Manual Stops:**

When manual limit stops are set, you can operate the PTZ control panel manually only in the limited surveillance area.

- **Scan Stops:**

When scan limit stops are set, the random scan, frame scan, auto scan, tilt scan, panorama scan is performed only in the limited surveillance area.



Manual Stops of **Limit Type** is prior to **Scan Stops**. When you set these two limit types at the same time, **Manual Stops** is valid and **Scan Stops** is invalid.

3. Click the PTZ control buttons to find the left/right/up/down limit stops; you can also call the defined presets and set them as the limits of the speed dome.
4. Click **Set** to save the limits or click **Clear** to clear the limits.

5.4.3 Configuring Initial Position

Purpose:

The initial position is the origin of PTZ coordinates. It can be the factory default initial position. You can also customize the initial position according to your own demand.

- **Customize an Initial Position:**

Steps:

1. Enter the Initial Position Configuration interface:

Configuration > PTZ > Initial Position



Figure 5-28 PTZ Configuration

2. Click the PTZ control buttons to find a position as the initial position of the speed dome; you can also call a defined preset and set it as the initial position of the speed dome.

3. Click **Set** to save the position.

- **Call/delete an Initial Position:**

You can click  to call the initial position. You can click  to delete the initial position and restore the factory default initial position.

5.4.4 Configuring Park Actions

Purpose:

This feature allows the speed dome to start a predefined park action (scan, preset, pattern and etc.) automatically after a period of inactivity (park time).



- **Scheduled Tasks** function is prior to **Park Action** function. When these two functions are set at the same time, only the **Scheduled Tasks** function takes effect.
- Pattern function varies depending on speed dome models.

Steps:

1. Enter the Park Action settings interface:

Configuration > PTZ > Park Action

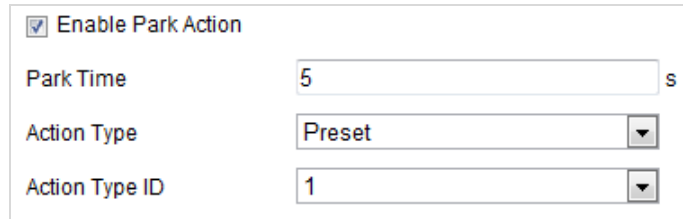


Figure 5-29 Set the Park Action

2. Check the checkbox of **Enable Park Action**.
3. Set the **Park Time** as the inactivity time of the speed dome before it starts the park actions.
4. Choose **Action Type** the from the dropdown list.

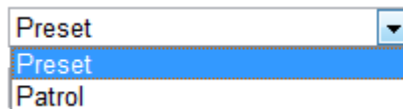


Figure 5-30 Action Types

5. Select the **Action Type ID** from the dropdown list.
6. Click  to save the settings.

5.4.5 Configuring Privacy Mask

Purpose:

Privacy mask enables you to cover certain areas on the live video to prevent certain spots in the

surveillance area from being live viewed and recorded.

Steps:

1. Enter the Privacy Mask settings interface:

Configuration > PTZ > Privacy Mask

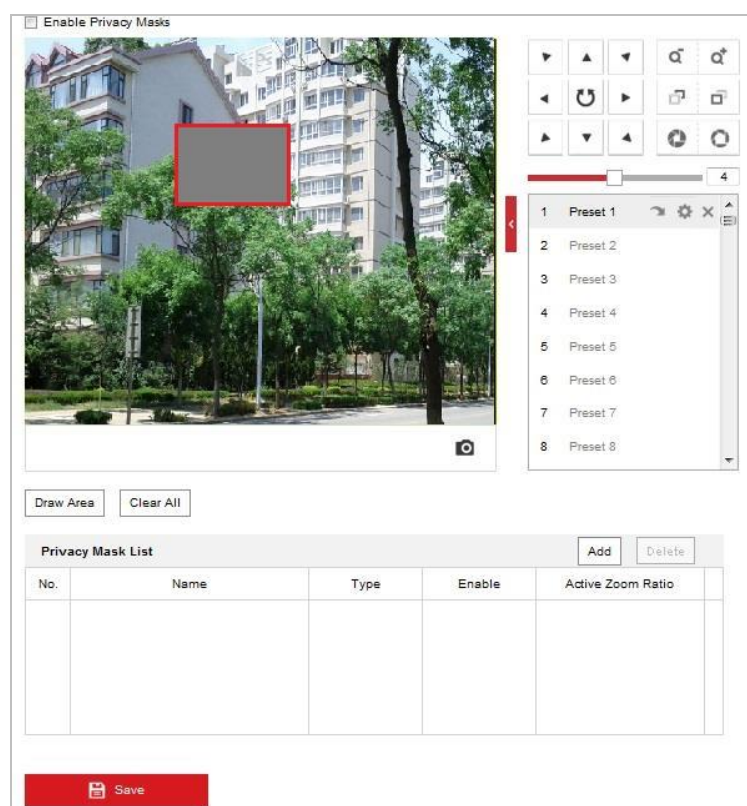


Figure 5-31 Draw the Privacy Mask

2. Click the PTZ control buttons to find the area you want to set the privacy mask.
3. Click **Draw Area**; click and drag the mouse in the live video window to draw the area.
4. You can drag the corners of the red rectangle area to draw a polygon mask.
5. Click **Stop Drawing** to finish drawing or click **Clear All** to clear all of the areas you set without saving them.
6. Click **Add** to save the privacy mask, and it will be listed in the **Privacy Mask List** area; set the value of **Active Zoom Ratio** on your demand, and then the mask will only appear when the zoom ratio is greater than the predefined value.

Privacy Mask List					Add	Delete
No.	Name	Type	Enable	Active Zoom Ratio		
1	Privacy Mask 1	gray	Yes	1		

Figure 5-32 Privacy Mask List

7. Check the checkbox of **Enable Privacy Mask** to enable this function.



You are allowed to draw up to 8 areas for the speed dome.

5.4.6 Configuring Scheduled Tasks

Purpose:

You can configure the network speed dome to perform a certain action automatically in a user-defined time period.

Steps:

1. Enter the Scheduled Task settings interface:

Configuration > PTZ > Scheduled Tasks

Figure 5-33 Configure Scheduled Tasks

2. Check the checkbox of **Enable Scheduled Task**.
3. Set the **Park Time**. You can set the park time (a period of inactivity) before the speed dome starts the scheduled tasks.
4. Select the task type from the dropdown list. You can choose scan, preset, pattern and etc.

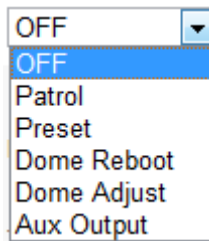


Figure 5-34 Task Types

5. Select the timeline of a certain day, click and drag the mouse to set the recording schedule (the start time and end time of the recording task).
6. After you set the scheduled task, you can click and copy the task to other days (optional).

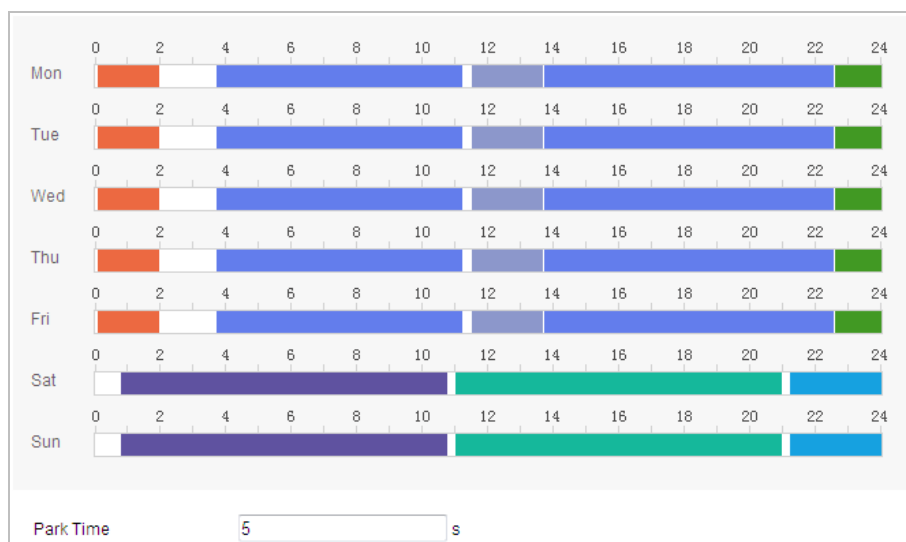


Figure 5-35 Edit the Schedule and Task Type



The time of each task cannot be overlapped. Up to 10 tasks can be configured for each day.

- Click  to save the settings.

5.4.7 Clearing PTZ Configurations

Purpose:

You can clear PTZ configurations in this interface, including all presets, patrols, privacy masks, PTZ limits, scheduled tasks and park actions.



Pattern function varies depending on speed dome models.

Steps:

- Enter the Clearing Configuration interface:
Configuration > PTZ > Clear Config
- Check the checkbox of the items you want to clear.
- Click  to clear the settings.

5.4.8 Configuring Smart Tracking

Purpose:

The speed dome tracks the moving objects automatically after you configure this function.

Steps:

- Enter the Smart Tracking settings interface:

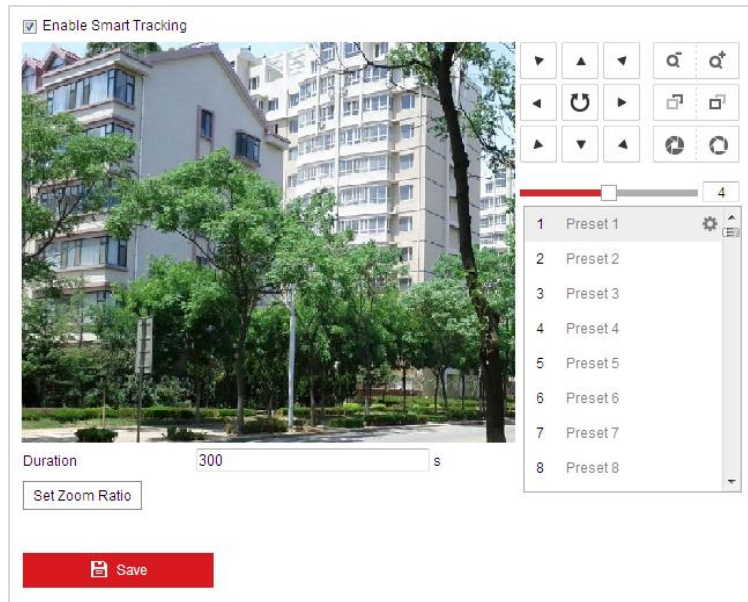
Configuration > PTZ > Smart Tracking

Figure 5-36 Configure Smart Tracking

2. Check the ☒ **Enable Smart Tracking** check box to enable smart tracking function.
3. Click the PTZ buttons to select an object.
4. Click to set the current zoom ratio as the tracking zoom ratio.
5. Set the tracking duration. The speed dome stops tracking when the duration time is up. The duration ranges from 0 to 300 seconds.



- Setting the duration to 0 means that there's no duration when speed dome tracks.
- Not all the speed dome models support this function. Please take the browser interface of the actual product as standard.

5.4.9 Prioritize PTZ**Steps:**

1. Enter the Prioritize PTZ interface:

Configuration > PTZ > Prioritize PTZ.



Figure 5-37 Position Settings

2. Select Network or RS-485 from the dropdown list
3. Set the delay time (Range 2-200s).
4. Click to save the settings.

Chapter 6 Speed Dome Configuration

6.1 Configuring Network Settings



The functions vary depending on the models of speed dome.

6.1.1 Basic Settings

Configuring TCP/IP Settings

Purpose:

TCP/IP settings must be properly configured before you operate the speed dome over network. IPv4 and IPv6 are both supported.

Steps:

1. Enter TCP/IP settings interface:

Configuration > Network > Basic Settings > TCP/IP

The screenshot shows the 'TCP/IP' configuration page. At the top, there are tabs: 'TCP/IP' (selected), 'DDNS', 'PPPoE', 'Port', and 'NAT'. Below the tabs, the configuration is organized into sections. The first section includes 'NIC Type' (set to 'Auto'), a checked 'DHCP' box, 'IPv4 Address' (10.16.1.250), 'IPv4 Subnet Mask' (255.255.255.0), 'IPv4 Default Gateway' (10.16.1.254), 'IPv6 Mode' (set to 'Route Advertisement'), 'IPv6 Address' (empty), 'IPv6 Subnet Mask' (0), 'IPv6 Default Gateway' (empty), 'Mac Address' (c0:56:e3:b3:bc:c0), 'MTU' (1500), and 'Multicast Address' (empty). There is a 'Test' button next to the IPv4 Address field and a 'View Route Advertisement' button next to the IPv6 Mode dropdown. A checkbox for 'Enable Multicast Discovery' is checked. The second section is titled 'DNS Server' and contains 'Preferred DNS Server' (8.8.8.8) and 'Alternate DNS Server' (empty) fields.

Figure 6-1 TCP/IP Settings

2. Configure the NIC settings, including the **IPv4(IPv6) Address**, **IPv4(IPv6) Subnet Mask** and **IPv4(IPv6) Default Gateway**.

3. Click  to save the above settings.

You can click **Test** to make sure that the IP address is valid.



- If the DHCP server is available, you can check ☐ DHCP to automatically obtain an IP address and other network settings from that server.
- The valid value range of Maximum Transmission Unit (MTU) is 500 ~ 1500. The default value is 1500.
- The Multicast sends a stream to the multicast group address and allows multiple clients to acquire the stream at the same time by requesting a copy from the multicast group address. Before utilizing this function, you have to enable the Multicast function of your router and configure the gateway of the network speed dome.
- If the DNS server settings are required for some applications (e.g., sending email), you should properly configure the **Preferred DNS Server** and **Alternate DNS server**.

DNS Server	
Preferred DNS Server	8.8.8.8
Alternate DNS Server	

Figure 6-2 DNS Server Settings



The router must support the route advertisement function if you select **Route Advertisement** as the IPv6 mode.

Configuring DDNS Settings

Purpose:

If your speed dome is set to use PPPoE as its default network connection, you can use the Dynamic DNS (DDNS) for network access.

Before you start:

Registration on the DDNS server is required before configuring the DDNS settings of the speed dome.



- *For your privacy and to better protect your system against security risks, we strongly recommend the use of strong passwords for all functions and network devices. The password should be something of your own choosing (using a minimum of 8 characters, including upper case letters, lower case letters, numbers and special characters) in order to increase the security of your product.*
- *Proper configuration of all passwords and other security settings is the responsibility of the installer and/or end-user.*

Steps:

1. Enter the DDNS settings interface:

Configuration > Network > Basic Settings > DDNS

2. Check the **Enable DDNS** checkbox to enable this feature.
3. Select **DDNS Type**. Two DDNS types are selectable: DynDNS and NO-IP.

- **DynDNS:**

Steps:

- (1) Enter **Server Address** of DynDNS (e.g. members.dyndns.org).
- (2) In the **Domain** text field, enter the domain name obtained from the DynDNS website.
- (3) Enter the **Port** of DynDNS server.
- (4) Enter the **User Name** and **Password** registered on the DynDNS website.
- (5) Click  to save the settings.

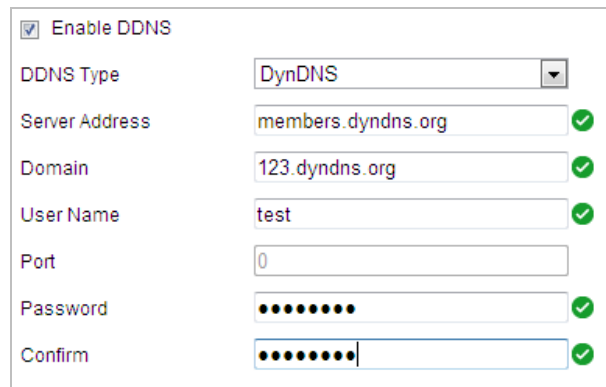


Figure 6-3 DynDNS Settings

- **NO-IP:**

Steps:

- (1) Enter **Server Address** of NO-IP.
- (2) In the **Domain** text field, enter the domain name obtained from the NO-IP website.
- (3) Enter the **Port** of NO-IP server.
- (4) Enter the **User Name** and **Password** registered on the NO-IP website.
- (5) Click  to save the settings.

Configuring PPPoE Settings**Purpose:**

If you have no router but only a modem, you can use Point-to-Point Protocol over Ethernet (PPPoE) function.

Steps:

1. Enter the PPPoE settings interface:
Configuration > Network > Basic Settings > PPPoE



Figure 6-4 PPPoE Settings

2. Check the **Enable PPPoE** checkbox to enable this feature.
3. Enter **User Name**, **Password**, and **Confirm** password for PPPoE access.



The User Name and Password should be assigned by your ISP.



- For your privacy and to better protect your system against security risks, we strongly recommend the use of strong passwords for all functions and network devices. The password should be something of your own choosing (using a minimum of 8 characters, including upper case letters, lower case letters, numbers and special characters) in order to increase the security of your product.
- Proper configuration of all passwords and other security settings is the responsibility of the installer and/or end-user.

4. Click  to save and exit the interface.

Configuring Port Settings

Purpose:

If there is a router and you want to access the speed dome through Wide Area Network (WAN), you need to forward the 3 ports for the speed dome.

Steps:

1. Enter the Port settings interface:
Configuration > Network > Basic Settings > Port

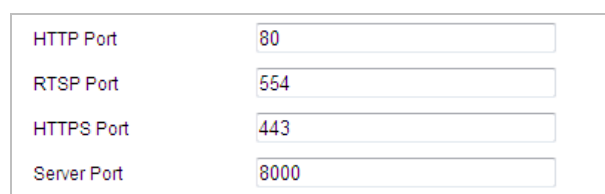


Figure 6-5 Port Settings

2. Set the HTTP port, RTSP port and port of the speed dome.

HTTP Port: The default port number is 80.

RTSP Port: The default port number is 554.

HTTPS Port: The default port number is 443.

Server Port: The default port number is 8000.

- Click  to save the settings.

Configuring NAT (Network Address Translation) Settings

Purpose:

Universal Plug and Play (UPnP™) is a networking architecture that provides compatibility among networking equipment, software and other hardware devices. The UPnP protocol allows devices to connect seamlessly and to simplify the implementation of networks in the house and corporate environments.

With the function enabled, you don't need to configure the port mapping for each port, and the camera is connected to the Wide Area Network via the router.

Steps:

- Enter the UPnP™ settings interface.
Configuration > Network > Basic Settings > NAT
- Check the checkbox to enable the UPnP™ function.



You can edit the Friendly Name of the speed dome. This name can be detected by corresponding device, such as a router.

- Set the port mapping mode:

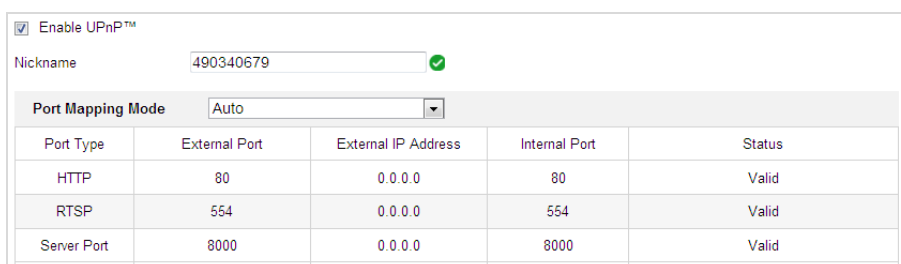
To port mapping with the default port numbers:

Choose **Port Mapping Mode** Auto

To port mapping with the customized port numbers:

Choose **Port Mapping Mode** Manual

And you can customize the value of the port number by yourself.



☒ Enable UPnP™

Nickname 

Port Mapping Mode Auto

Port Type	External Port	External IP Address	Internal Port	Status
HTTP	80	0.0.0.0	80	Valid
RTSP	554	0.0.0.0	554	Valid
Server Port	8000	0.0.0.0	8000	Valid

Figure 6-6 Port Mapping Mode

- Click  to save the settings.

6.1.2 Advanced Settings

Configuring SNMP Settings

Purpose:

You can use SNMP to get speed dome status and parameters related information.

Before you start:

Before setting the SNMP, please use the SNMP software and manage to receive the speed dome information via SNMP port. By setting the Trap Address, the speed dome can send the alarm event and exception messages to the surveillance center.



The SNMP version you select should be the same as that of the SNMP software.

Steps:

1. Enter the SNMP settings interface:

Configuration > Network > Advanced Settings > SNMP

The image shows a web-based configuration interface for SNMP settings, organized into three main sections: SNMP v1/v2, SNMP v3, and SNMP Other Settings.

- SNMP v1/v2 Section:**
 - Enable SNMPv1: ☐
 - Enable SNMP v2c: ☐
 - Read SNMP Community:
 - Write SNMP Community:
 - Trap Address:
 - Trap Port:
 - Trap Community:
- SNMP v3 Section:**
 - Enable SNMPv3: ☐
 - Read UserName:
 - Security Level:
 - Authentication Algorithm: ☒ MD5 ☐ SHA
 - Authentication Password:
 - Private-key Algorithm: ☒ DES ☐ AES
 - Private-key password:
 - Write UserName:
 - Security Level:
 - Authentication Algorithm: ☒ MD5 ☐ SHA
 - Authentication Password:
 - Private-key Algorithm: ☒ DES ☐ AES
 - Private-key password:
- SNMP Other Settings Section:**
 - SNMP Port:

Figure 6-7 SNMP Settings

2. Check the corresponding version checkbox (**Enable SNMP v1**, **Enable SNMP v2c**, **Enable SNMP v3**) to enable the feature.
3. Configure the SNMP settings.



The configuration of the SNMP software should be the same as the settings you configure here.

4. Click  to save and finish the settings.

Configuring FTP Settings

Purpose:

You can set a FTP server and configure the following parameters for uploading captured pictures.

Steps:

1. Enter the FTP settings interface:

Configuration > Network > Advanced Settings > FTP

Figure 6-8 FTP Settings

2. Configure the FTP settings, including server address, port, user name, password, directory, and upload type.



The server address supports both the domain name and IP address formats.



- *For your privacy and to better protect your system against security risks, we strongly recommend the use of strong passwords for all functions and network devices. The password should be something of your own choosing (using a minimum of 8 characters, including upper case letters, lower case letters, numbers and special characters) in order to increase the security of your product.*

- *Proper configuration of all passwords and other security settings is the responsibility of the installer and/or end-user.*
- **Setting the directory in FTP server for saving files:**

In the **Directory Structure** field, you can select the root directory, parent directory and child directory.

- ◆ **Root directory:** The files will be saved in the root of FTP server.
- ◆ **Parent directory:** The files will be saved in a folder in FTP server. The name of folder can be defined as shown in following Figure 6-9.

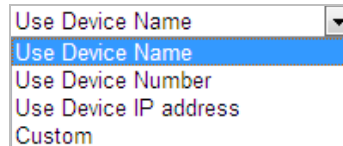


Figure 6-9 Parent Directory

- ◆ **Child directory:** It is a sub-folder which can be created in the parent directory. The files will be saved in a sub-folder in FTP server. The name of folder can be defined as shown in following Figure 6-10.

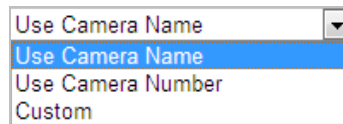


Figure 6-10 Child Directory

- **Upload type:** To enable uploading the captured picture to the FTP server.

3. Click  **Save** to save the settings.
4. You can click **Test** to confirm the configuration.



If you want to upload the captured pictures to FTP server, you also have to enable the continuous snapshot or event-triggered snapshot in **Snapshot** interface.

Configuring Email Settings

Purpose:

The system can be configured to send an Email notification to all designated receivers if an alarm event is detected, e.g., motion detection event, video loss, video-tampering, etc.

Before you start:

Please configure the DNS Server settings under **Configuration> Network > Basic Settings > TCP/IP** before using the Email function.

Steps:

1. Enter the Email settings interface:
Configuration> Network > Advanced Settings > Email

Receiver			
No.	Receiver	Receiver's Address	Test
1			Test
2			
3			

Figure 6-11 Email Settings

2. Configure the following settings:

Sender: The name of the email sender.

Sender's Address: The email address of the sender.

SMTP Server: The SMTP Server IP address or host name (e.g., smtp.263xmail.com).

SMTP Port: The SMTP port. The default TCP/IP port for SMTP is 25.

E-mail encryption: None, SSL, and TLS are selectable. When you select SSL or TLS and disable STARTTLS, e-mails will be sent after encrypted by SSL or TLS. The SMTP port should be set as 465 for this encryption method. When you select SSL or TLS and enable STARTTLS, emails will be sent after encrypted by STARTTLS, and the SMTP port should be set as 25.



STARTTLS protocol must be supported by the email server for e-mail encryption with STARTTLS. When it is not supported by the email server and the checkbox of Enable STARTTLS is checked, the email will not be encrypted.

Attached Image: Check the checkbox of **Attached Image** if you want to send emails with attached alarm images.

Interval: The interval refers to the time between two actions of sending attached pictures.

Authentication (optional): If your email server requires authentication, check this checkbox to use authentication to log in to this server and enter the login user name and password.



- For your privacy and to better protect your system against security risks, we strongly recommend the use of strong passwords for all functions and network devices. The password should be something of your own choosing (using a minimum of 8 characters, including upper case letters, lower case letters, numbers and special characters) in order to increase the security of your product.
- Proper configuration of all passwords and other security settings is the responsibility of the installer and/or end-user.

Receiver: Select the receiver to which the email is sent. Up to 2 receivers can be configured.

Receiver: The name of the user to be notified.

Receiver's Address: The email address of user to be notified. (Optional: click **Test** to make sure that the email server can send email out.)

3. Click  to save the settings.

Configuring Platform Access

Purpose:

Platform access provides you an option to manage the devices via platform.

Steps:

1. Enter the Platform Access interface.

Configuration > Network > Advanced Settings > Platform Access

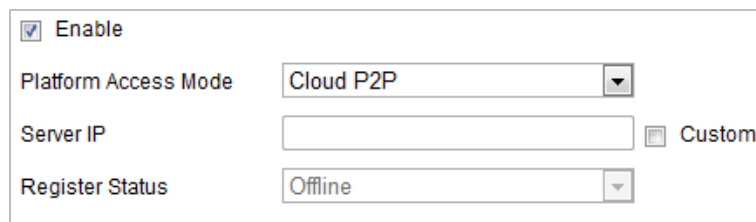


Figure 6-12 Platform Access Settings

2. Check the checkbox of **Enable** to enable the platform access function of the device.
3. Select the Platform Access Mode from the dropdown list.
4. Set the Server IP.
5. Click  to save the settings

Configuring HTTPS Settings

Purpose:

HTTPS is consisted by SSL&HTTP. It is used for encryption transmission, identity authentication network protocol which enhances the security of WEB accessing.



- *For your privacy and to better protect your system against security risks, we strongly recommend the use of strong passwords for all functions and network devices. The password should be something of your own choosing (using a minimum of 8 characters, including upper case letters, lower case letters, numbers and special characters) in order to increase the security of your product.*
- *Proper configuration of all passwords and other security settings is the responsibility of the installer and/or end-user.*

Steps:

1. Enter the HTTPS settings interface.

Configuration > Network > Advanced Settings > HTTPS

2. Create the self-signed certificate or authorized certificate.

Figure 6-13 Create Certificate

OPTION 1: Create the self-signed certificate

- 1) Select Create Self-signed Certificate.
- 2) Click **Create** to create the following dialog box.

Figure 6-14 Create Self-signed Certificate

- 3) Enter the country, host name/IP, validity and other information.
- 4) Click **OK** to save the settings.

OPTION 2: Start the installation when signed certificate is available.

- 1) Select Signed certificate is available, Start the installation directly.
- 2) Click **Browse** to upload the available certificate.
- 3) Click **Install** button to install the certificate.
- 4) Click **OK** to save the settings.

OPTION 3: Create certificate request first and continue the installation.

- 1) Select Create certificate request first and continue the installation.
 - 2) Click **Create** to create the certificate request, and fulfill the required information.
 - 3) Download the certificate request and submit it to the trusted certificate authority for signature.
 - 4) After receiving the signed valid certificate, import the certificate to the device.
 - 5) Click **OK** to save the settings.
3. There will be the certificate information after you successfully create and install the certificate.

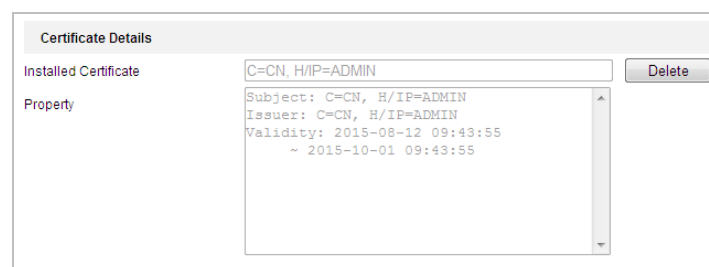


Figure 6-15 Installed Certificate Property



- The default port number of HTTPS is 443. The port value ranges from 1 to 65535.
- When the port number is the default number 443, the format of the URL is **https://IP address**, eg., https://192.168.1.64.
- When the port number is not the default number 443, the format of the URL is **https://IP address:port number**, eg., https://192.168.1.64:81.

Configuring QoS Settings

Purpose:

QoS (Quality of Service) can help solve the network delay and network congestion by configuring the priority of data sending.

Steps:

1. Enter the QoS settings interface:

Configuration > Advanced Configuration > Network > QoS

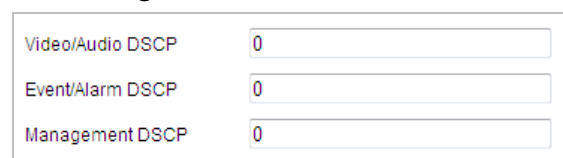


Figure 6-16 QoS Settings

2. Configure the QoS settings, including video / audio DSCP, event / alarm DSCP and Management DSCP.

The valid DSCP value ranges from 0 to 63. The DSCP value is bigger, the priority is higher.

3. Click  to save the settings.



- Make sure that you enable the QoS function of your network device (such as a router).
- It will ask for a reboot for the settings to take effect.

Configuring 802.1X Settings

Purpose:

The speed dome supports IEEE 802.1X standard.

IEEE 802.1X is a port-based network access control. It enhances the security level of the LAN. When devices connect to this network with IEEE 802.1X standard, the authentication is needed. If the authentication fails, the devices don't connect to the network.

The protected LAN with 802.1X standard is shown as follows:

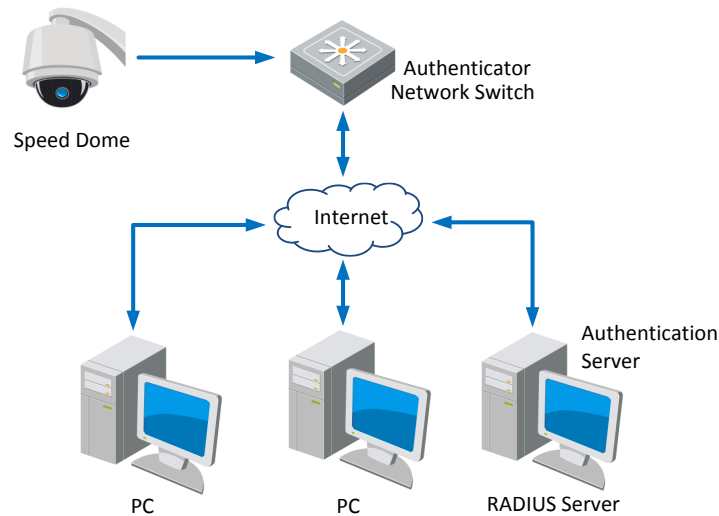


Figure 6-17 Protected LAN

- Before connecting the Network Camera to the protected LAN, please apply a digital certificate from a Certificate Authority.
- The network camera requests access to the protected LAN via the authenticator (a switch).
- The switch forwards the identity and password to the authentication server (RADIUS server).
- The switch forwards the certificate of authentication server to the network camera.
- If all the information is validated, the switch allows the network access to the protected network.



- *For your privacy and to better protect your system against security risks, we strongly recommend the use of strong passwords for all functions and network devices. The password should be something of your own choosing (using a minimum of 8 characters, including upper case letters, lower case letters, numbers and special characters) in order to increase the security of your product.*
- *Proper configuration of all passwords and other security settings is the responsibility of the installer and/or end-user.*

Steps:

1. Connect the network camera to your PC directly with a network cable.
2. Enter the 802.1X settings interface:

Configuration > Network > Advanced Settings > 802.1X



☐ Enable IEEE 802.1X
 Protocol: EAP-MD5
 EAPOL version: 1
 User Name:
 Password:
 Confirm:

Figure 6-18 802.1X Settings

3. Check the **Enable IEEE 802.1X** checkbox to enable it.
4. Configure the 802.1X settings, including user name and password.



The EAP-MD5 version must be identical with that of the router or the switch.

5. Click  to finish the settings.



The camera reboots when you save the settings.

6. After the configuration, connect the camera to the protected network.

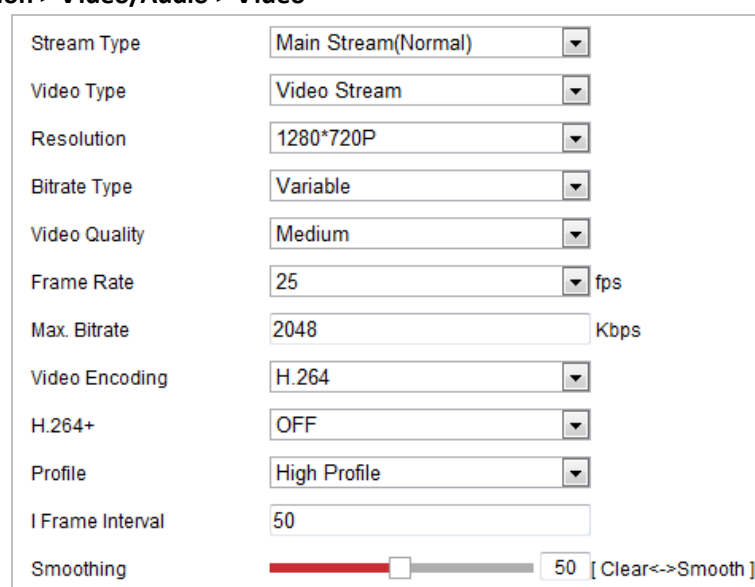
6.2 Configuring Video and Audio Settings

6.2.1 Configuring Video Settings

Steps:

1. Enter the Video settings interface:

Configuration > Video/Audio > Video



Stream Type: Main Stream(Normal)
 Video Type: Video Stream
 Resolution: 1280*720P
 Bitrate Type: Variable
 Video Quality: Medium
 Frame Rate: 25 fps
 Max. Bitrate: 2048 Kbps
 Video Encoding: H.264
 H.264+: OFF
 Profile: High Profile
 I Frame Interval: 50
 Smoothing: 50 [Clear<-->Smooth]

Figure 6-19 Configure Video Settings

2. Select the **Stream Type** of the speed dome to main stream (normal), sub-stream or third stream. The main stream is usually for recording and live viewing with good bandwidth, and the sub-stream can be used for live viewing when the bandwidth is limited. Refer to the **Section 4.1 Configuring Local Parameters** for switching the main stream and sub-stream for live viewing.
3. You can customize the following parameters for the selected stream.



The parameters vary depending on the models of the speed dome.

Video Type:

Select the stream type to video stream, or video & audio composite stream. The audio signal will be recorded only when the **Video Type** is **Video & Audio**.

Resolution:

Select the resolution of the video output.

Bitrate Type:

Select the bitrate type to constant or variable.

Video Quality:

When bitrate type is selected as **Variable**, 6 levels of video quality are selectable.

Frame Rate:

The frame rate is to describe the frequency at which the video stream is updated and it is measured by frames per second (fps). A higher frame rate is advantageous when there is movement in the video stream, as it maintains image quality throughout.

Max. Bitrate:

Set the max. bitrate. The higher value corresponds to the higher video quality, but the higher bandwidth is required.

Video Encoding:

Select **Video Encoding** from the dropdown list for different stream type.

H.265+/H.264+:

Set it as ON or OFF.

Profile:

Basic Profile, Main Profile and High Profile are selectable.

I Frame Interval:

Set the I-Frame interval from 1 to 400.

SVC:

Scalable Video Coding is an extension of the H.264/AVC standard. Select OFF/ON to disable/enable the SVC function. Select Auto, and the device will automatically extract frames from the original video when the network bandwidth is insufficient.

Smoothing:

It refers to the smoothness of the stream. The higher value of the smoothing, the better fluency of the stream, though, the video quality may not be so satisfied. The lower value of the smoothing, the higher quality of the stream, though it may appear not fluent.

4. Click  to save the settings.

6.2.2 Configuring Audio Settings

Steps:

1. Enter the Audio settings interface

Configuration > Video/Audio > Audio

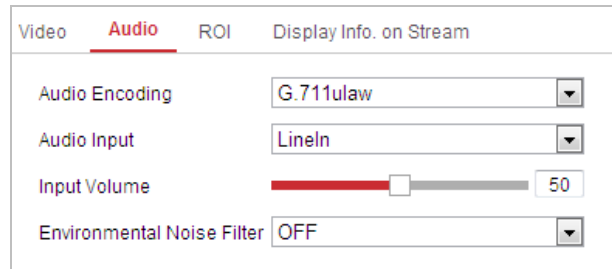


Figure 6-20 Audio Settings

2. Configure the following settings.

Audio Encoding: G.722.1, G.711ulaw, G.711alaw, MP2L2, G.726 and PCM are selectable.

Audio Input: When an intercom is connected to the speed dome, you need to set this option to **Lineln**. When a microphone is connected to the speed dome, you need to set this option to **MicIn**.

Audio Stream Bitrate: When the Audio Encoding is selected as MP2L2, you can configure the Audio Stream Bitrate in the dropdown list. The greater the value is, the better the audio quality will be.

Sampling Rate: When the Audio Encoding is selected as MP2L2, you can configure the Sampling Rate in the dropdown list. The greater the value is, the better the audio quality will be.

Input Volume: Slid the **bar** to turn up/down the volume. The value ranges from 0 to 100.

Environmental Noise Filter: Select ON or OFF in the dropdown list to enable or disable the function. It's recommended to enable the function when the sampling rate is lower than 32kHz.

3. Click  to save the settings.

6.2.3 Configuring ROI Settings

Purpose:

ROI (Region of Interest) encoding is used to enhance the quality of images which are specified in advance. There are two different ROI methods: **Fixed Region** and **Dynamic Region**. When **Fixed Region** is enabled, image quality of ROI area will be enhanced and image quality of other areas will be reduced. When **Dynamic Region** is enabled, image quality of tracking target will be enhanced.



ROI function varies depending on the models of speed dome.

Enter the ROI settings interface:

Configuration > Video/Audio > ROI



Figure 6-21 Region of Interest (1)

Figure 6-22 Region of Interest (2)

● ROI for Fixed Region

Steps:

1. Check **Enable** checkbox to enable the **Fixed Region** function.
2. Select a stream type. You can set the ROI function for main stream, sub stream or third stream.
3. Click **Draw Area** and then click-and-drag the mouse to draw a red frame in the live view

image. You can click **Clear** to clear it.



The number of areas supported in ROI function varies depending on the models of speed dome.

4. Select the **Region No.** from the dropdown list.
5. Adjust the **ROI level** from 1 to 6. The higher the value, the better image quality in the red frame.
6. Enter a **Region Name**.

- **ROI for Dynamic Region**

1. Check **Enable Face Tracking** checkbox to enable face tracking, and the captured face picture is set as region of interest. Adjust the **ROI level** from 1 to 6.
2. Check **Enable Target Tracking** checkbox to enable target tracking, and the target is set as region of interest. Adjust the **ROI level** from 1 to 6.
3. Click **Save** to save the settings.

6.2.4 Dual-VCA Settings

Steps:

1. Enter the Dual-VCA settings interface:
Configuration > Video/Audio > Display Info. on Stream
2. Check the checkbox to enable the function of Dual-VCA which can be used cooperatively with NVR to implement dual-VCA retrieval during playback.

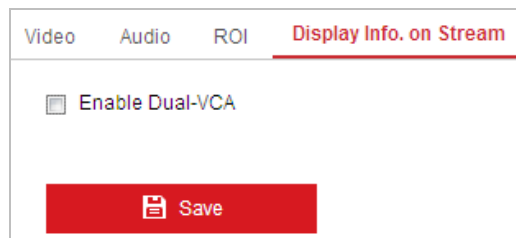


Figure 6-23 Enable Dual-VCA

3. Click  to save the settings.

6.3 Configuring Image Settings



- On the event configuration page, click  to show the PTZ control panel or click  to hide it.
- Click the direction buttons to control the pan/tilt movements.
- Click the zoom/iris/focus buttons to realize lens control.
- The functions vary depending on the models of speed dome.

6.3.1 Configuring Display Settings

Purpose:

You can set the image quality of the speed dome, including brightness, contrast, saturation, sharpness, etc.



- The parameters in **Display Settings** interface vary depending on the models of speed dome.
- You can double click the live view to enter full screen mode and double click it again to exit.

Steps:

1. Enter the Display settings interface:

Configuration > Image > Display Settings

2. You can select the **Scene** in the dropdown list with different predefined image parameters.
3. Set the image parameters of the speed dome.

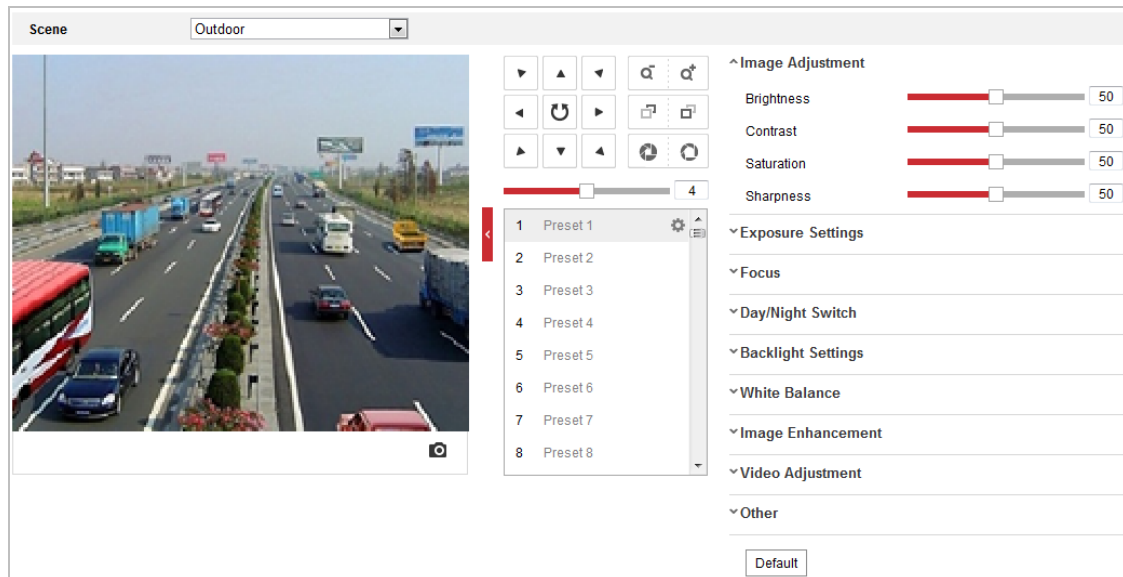


Figure 6-24 Display Settings

Image Adjustment

● Brightness

This feature is used to adjust brightness of the image. The value ranges from 0 to 100.

● Contrast

This feature enhances the difference in color and light between parts of an image. The value ranges from 0 to 100.

● Saturation

This feature is used to adjust color saturation of the image. The value ranges from 0 to 100.

● Sharpness

Sharpness function enhances the detail of the image by sharpening the edges in the image. The value ranges from 0 to 100.



The parameters vary depending on the models of speed dome.

Exposure Settings

● Exposure Mode

The **Exposure Mode** can be set to **Auto**, **Iris Priority**, **Shutter Priority**, and **Manual**.

◆ Auto:

The iris, shutter and gain values will be adjusted automatically according to the brightness of the environment.

◆ Iris Priority:

The value of iris needs to be adjusted manually. The shutter and gain values will be adjusted automatically according to the brightness of the environment.

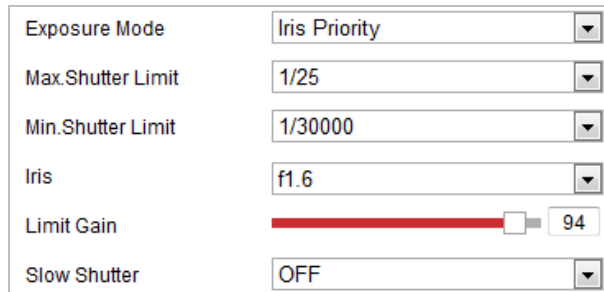


Figure 6-25 Manual Iris

◆ Shutter Priority:

The value of shutter needs to be adjusted manually. The iris and gain values will be adjusted automatically according to the brightness of the environment.

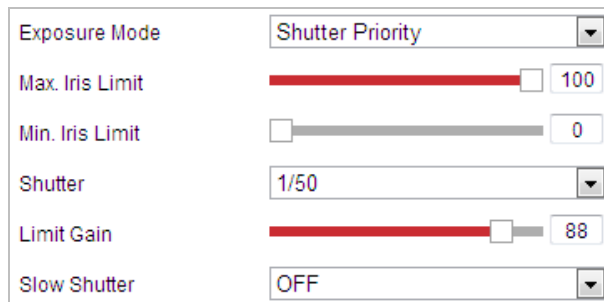


Figure 6-26 Manual Shutter

◆ Manual:

In **Manual** mode, you can adjust the values of **Gain**, **Shutter**, **Iris** manually.

● Limit Gain

This feature is used to adjust gain of the image. The value ranges from 0 to 100.

● Slow Shutter

This function can be used in underexposure condition. It lengthens the shutter time to ensure full exposure.

● Slow Shutter Level

When slow shutter is set as ON, you can select the slow shutter level from the dropdown list. The slow shutter lever can be set to **Slow Shutter*2, *3, *4, *6, *8**.

Slow Shutter	ON
Slow Shutter Level	Slow Shutter*2

Figure 6-27 Slow Shutter



The parameters vary depending on the models of speed dome.

Focus Settings

● Focus Mode

The **Focus Mode** can be set to **Auto, Manual, Semi-auto**.

◆ Auto:

The speed dome focuses automatically at any time according to objects in the scene.

◆ Semi-auto:

The speed dome focuses automatically only once after panning, tilting and zooming.

◆ Manual:

In **Manual** mode, you need to use   on the control panel to focus manually.

● Min. Focus Distance

This function is used to limit the minimum focus distance. The value can be set to 10cm, 50cm, 1.0m, 1.5m, 3m, 6m, 10m and 20m.



The minimum focus value varies depending on the models of speed dome.

Day/Night Switch

● Day/Night Switch

The **Day/Night Switch** mode can be set to **Auto, Day, Night** and **Scheduled-Switch**.



This function varies depending on the models of speed dome.

◆ Auto:

In **Auto** mode, the day mode and night mode can switch automatically according to the light condition of environment.

Day/Night Switch	Auto
------------------	------

Figure 6-28 Auto Mode Sensitivity

◆ Day:

In **Day** mode, the speed dome displays color image. It is used for normal lighting conditions.

◆ Night:

In **Night** mode, the image is black and white. **Night** mode can increase the sensitivity in low light conditions.

◆ Scheduled-Switch:

In **Schedule** mode, you can set the time schedule for day mode as shown in Figure 6-29. The rest time out of the schedule is for night mode.

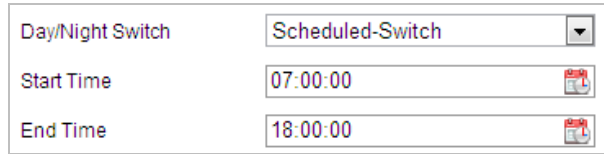


Figure 6-29 Day Night Schedule

Backlight Settings

● BLC (Back Light Compensation)

If there's a bright backlight, the subject in front of the backlight appears silhouetted or dark. Enabling **BLC**(back light compensation) function can correct the exposure of the subject. But the backlight environment is washed out to white.

● WDR (Wide Dynamic Range)

The wide dynamic range (WDR) function helps the camera provide clear images even under back light circumstances. When there are both very bright and very dark areas simultaneously in the field of view, WDR balances the brightness level of the whole image and provide clear images with details.

You can enable or disable the WDR function as shown in Figure 6-30. The wide dynamic level ranges from 0 to 100.



Figure 6-30 WDR



This function varies depending on the models of speed dome.

● HLC

HLC (High Light Compensation) makes the camera identify and suppress the strong light sources that usually flare across a scene. This makes it possible to see the detail of the image that would normally be hidden.

White Balance

The **White Balance** mode can be set to **Auto**, **MWB**, **Outdoor**, **Indoor**, **Fluorescent Lamp**, **Sodium Lamp** and **Auto-Tracking**.

◆ Auto:

In **Auto** mode, the camera retains color balance automatically according to the current color

temperature.

◆ Manual White Balance:

In **MWB** mode, you can adjust the color temperature manually to meet your own demand as shown in Figure 6-31.

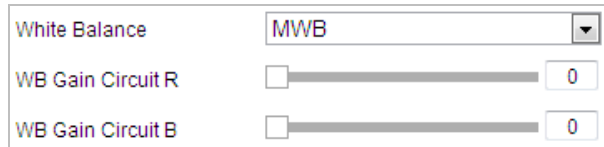


Figure 6-31 Manual White Balance

◆ Outdoor

You can select this mode when the speed dome is installed in outdoor environment.

◆ Indoor

You can select this mode when the speed dome is installed in indoor environment.

◆ Fluorescent Lamp

You can select this mode when there are fluorescent lamps installed near the speed dome.

◆ Sodium Lamp

You can select this mode when there are sodium lamps installed near the speed dome.

◆ Auto-Tracking

In **Auto-Tracking** mode, white balance is continuously being adjusted in real-time according to the color temperature of the scene illumination.



This function varies depending on the models of speed dome.

Image Enhancement



This function varies depending on the models of speed dome.

● 3D Digital Noise Reduction

You can set **Digital Noise Reduction** function to **Normal** and adjust the **Noise Reduction Level** as shown in Figure 6-32. The level ranges from 0 to 100.

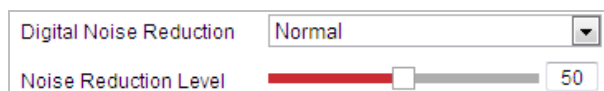


Figure 6-32 3D Digital Noise Reduction

If you are a professional technician, you can set it to **Expert** Mode then adjust **Space DNR Level** and **Time DNR Level**. The level ranges from 0 to 100.

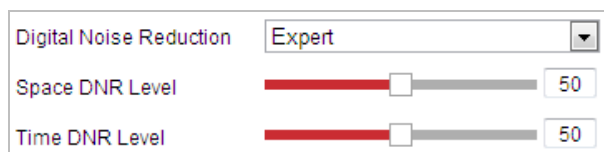


Figure 6-33 Expert Mode

- **Defog Mode**

You can set the **Defog Mode** to ON or OFF as you need.



Figure 6-34 Defog Mode

- **EIS (Electronic Image Stabilization)**

You can set the **EIS** to ON or OFF as you need.

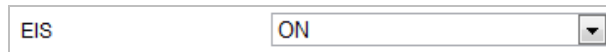


Figure 6-35 Electronic Image Stabilization

Video Adjustment

- **Mirror**

If you turn the **MIRROR** function on, the image will be flipped. It is like the image in the mirror. The flip direction can be set to OFF or CENTER.



This function varies depending on the models of speed dome.

- **Video Standard**

You can set the **Video Standard** to 50hz(PAL) or 60hz(NTSC) according to the video system in your country.



This function varies depending on the models of speed dome.

- **Capture Mode**

You can disable this function or select the capture mode from the list..



This function varies depending on the models of speed dome.

Other

- **Lens Initialization**

The lens operates the movements for initialization when you check the check box of **Lens Initialization**.

- **Zoom Limit**

You can set **Zoom Limit** value to limit the maximum value of zooming. The value can be selected from the list.



The functions vary depending on the models of speed dome.

6.3.2 Configuring OSD Settings

Purpose:

The speed dome supports following on screen displays:

Time: Supports for time display.

Camera Name: Identifies the name of speed dome.

You can customize the on screen display of time.

Steps:

1. Enter the OSD settings interface:

Configuration > Image > OSD Settings

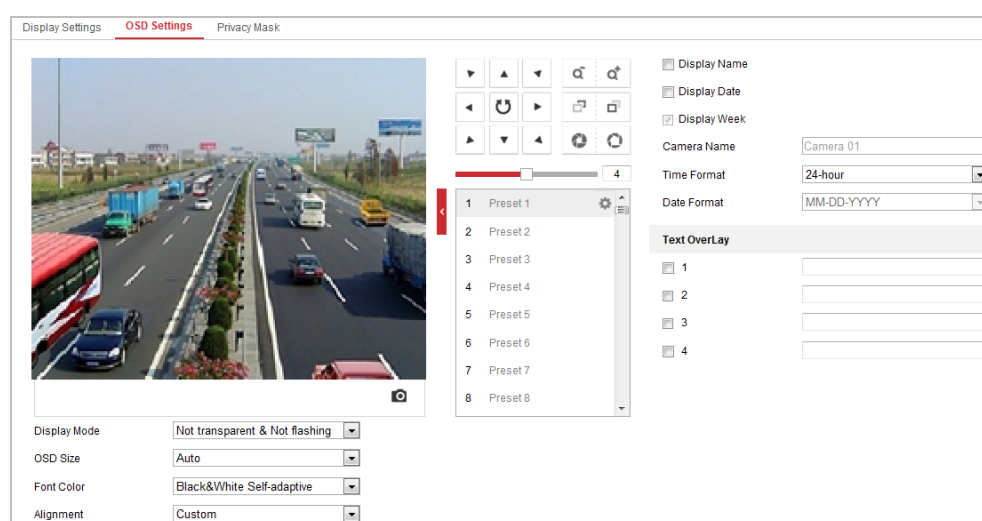


Figure 6-36 OSD Settings

2. Check the corresponding checkbox to select the display of speed dome name, date or week if required.
3. Edit the speed dome name in the text field of **Camera Name**.
4. Select from the dropdown list to set the time format, date format, display mode, OSD size and Font color.
5. You can use the mouse to click and drag the text frame **IPdome** in the live view window to adjust the OSD position.



Figure 6-37 Adjust OSD Location

6. Click  Save to activate above settings.

6.3.3 Configuring Text Overlay Settings

Purpose:

You can customize the text overlay.

Steps:

1. Enter the Text Overlay settings interface:
Configuration > Image > OSD Settings
2. Check the checkbox in front of textbox to enable the on-screen display.
3. Input the characters in the textbox.
4. Use the mouse to click and drag the red text frame  in the live view window to adjust the text overlay position.
5. Click  Save to save the settings.



There are up to 4 text overlays configurable. When the video resolution is 1080p, only one text overlay is supported. When PTZ direction, preset OSDs are displayed, the text overlay is disabled.

Figure 6-38 Text Overlay Settings

6.3.4 Configuring Image Parameters Switch



This function varies depending on the network speed dome model.

Purpose:

You can configure **Link to Preset** or **Scheduled-Switch** in this interface. **Link to Preset:** Set the time period and linked scene for the preset and check the corresponding checkbox to go to the linked scene in the configured time period. **Scheduled-Switch:** Set the time period and linked scene and it will go to the linked scene in the configured time period when you check the corresponding checkbox.

Steps:

1. Enter the Image Parameters Switch interface:
Configuration > Image > Image Parameters Switch
2. Check the checkbox of **Link to Preset** or **Scheduled-Switch** to enable the function. (Only one function can be enabled in the same time.)
3. When you enable the function of **Link to Preset**, select one preset from the dropdown list, check the corresponding checkbox, set the time period and the linked scene for the selected preset. (Up to 4 periods can be configured for one preset.)

Figure 6-39 Link to Preset

Figure 6-40 Linked Scene

4. When you enable the function of **Scheduled-Switch**, check the corresponding checkbox, set the time period and the linked scene.

Scheduled-Switch				
☐ Period1	00:00:00		00:00:00	Linked Scene: Indoor
☐ Period2	00:00:00		00:00:00	Linked Scene: Indoor
☐ Period3	00:00:00		00:00:00	Linked Scene: Indoor
☐ Period4	00:00:00		00:00:00	Linked Scene: Indoor

Figure 6-41 Schedule-Switch

5. Click  to save the settings.



The two functions are not enabled by default.

6.4 Configuring System Settings

6.4.1 System Settings

Viewing Basic Information

Enter the Device Information interface:

Configuration > System > System Settings > Basic Information

In the **Basic Information** interface, you can edit the Device Name and Device No..

Other information of the network zoom camera, such as Model, Serial No., Firmware Version, Encoding Version, Web Version, Plugin Version, Number of Channels, Number of HDDs, Number of Alarm Input and Number of Alarm Output are displayed. The information cannot be changed in this menu. It is the reference for maintenance or modification in future.

Device Name	IP DOME
Device No.	88
Model	
Serial No.	
Firmware Version	
Encoding Version	
Web Version	
Plugin Version	
Number of Channels	
Number of HDDs	
Number of Alarm Input	
Number of Alarm Output	

Figure 6-42 Device Information

Time Settings

Purpose:

You can follow the instructions in this section to configure the time which can be displayed on the video. There are Time Zone, Time Synchronization, Daylight Saving Time (DST) functions for setting the time. Time Synchronization consists of auto mode by Network Time Protocol (NTP) server and manual mode.

Enter the Time Settings interface:

Configuration > System > System Settings > Time Settings

The screenshot shows the 'Time Settings' interface within a configuration menu. At the top, there are tabs for 'Basic Information', 'Time Settings' (which is selected), 'DST', and 'RS485'. Below the tabs, the 'Time Zone' is set to '(GMT+08:00) Beijing, Urumqi, Singapore'. The 'NTP' section is active, showing a radio button for 'NTP' (selected), a 'Server Address' field with 'time.windows.com', an 'NTP Port' field with '123', and an 'Interval' field with '1440' minutes. There is a 'Test' button below the interval field. The 'Manual Time Sync.' section is also visible, with a radio button for 'Manual Time Sync.' (not selected), a 'Device Time' field showing '2015-11-17T15:39:53', and a 'Set Time' field showing '2015-11-17T15:39:20' with a calendar icon. A checkbox for 'Sync. with computer time' is present. At the bottom, there is a red 'Save' button.

Figure 6-43 Time Settings

● Configuring Time Synchronization by NTP Server

Steps:

- (1) Check the radio button to enable the **NTP** function.
- (2) Configure the following settings:

Server Address: IP address of NTP server.

NTP Port: Port of NTP server.

Interval: The time interval between the two synchronizing actions by NTP server. It can be set from 1 to 10080 minutes.

This is a close-up screenshot of the 'NTP' configuration section. It shows the 'NTP' radio button selected. The 'Server Address' field contains 'time.windows.com', the 'NTP Port' field contains '123', and the 'Interval' field contains '1440' minutes. A 'Test' button is located at the bottom of this section.

Figure 6-44 Time Sync by NTP Server

You can click  to make sure that the NTP server is connected.



If the speed dome is connected to a public network, you should use a NTP server that has a time synchronization function, such as the server at the National Time Center (IP Address: 210.72.145.44). If the speed dome is set in a customized network, NTP software can be used to establish a NTP server for time synchronization.

● Configuring Time Synchronization Manually

Steps:

- (1) Check the **Manual Time Sync** radio button.
- (2) Click to set the system time from the pop-up calendar.
- (3) Click to save the settings.



You can also check the **Sync with local time** checkbox to synchronize the time of the speed dome with the time of your computer.

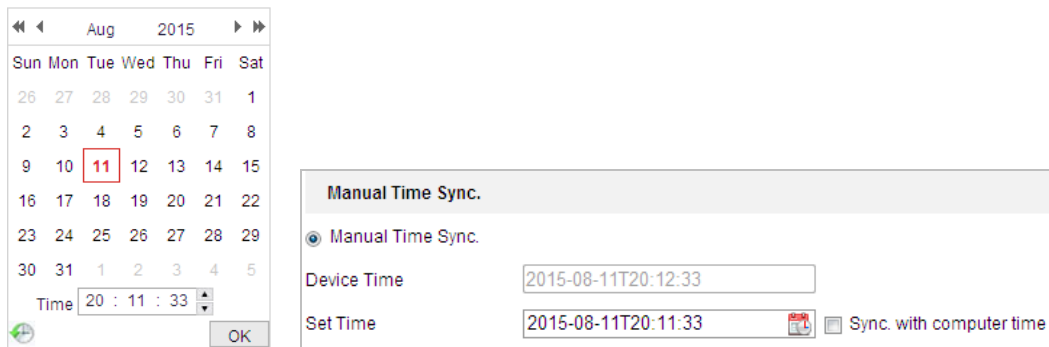


Figure 6-45 Time Sync Manually

● Select the Time Zone

Purpose:

When the speed dome is taken to another time zone, you can use the **Time Zone** function to adjust the time. The time will be adjusted according to the original time and the time difference between the two time zones.

From the **Time Zone** dropdown menu as shown in Figure 6-46, select the Time Zone in which the speed dome locates.

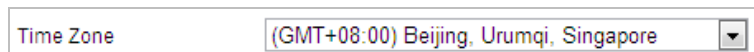


Figure 6-46 Time Zone Settings

Configuring DST (Daylight Saving Time)

Purpose:

If there is the habit of adjusting clocks forward in your country in certain time period of a year,

you can turn this function on. The time will be adjusted automatically when the Daylight Saving Time (DST) comes.

Steps:

1. Enter the **DST** interface by **Configuration > Advanced Configuration > System > DST**

Figure 6-47 DST Settings

2. Check ☒ **Enable DST** to enable the DST function.
3. Set the date of the DST period.
4. Click  to save the settings.

Configuring RS-485

Purpose:

The RS-485 serial port is used to control the PTZ of the camera. The configuring of the PTZ parameters should be done before you control the PTZ unit.

Steps:

1. Enter RS-485 Port Setting interface:
Configuration > Advanced Configuration > System > RS-485

Figure 6-48 RS-485 Settings

2. Set the RS-485 parameters and click  to save the settings.



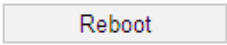
The Baud rate, PTZ Protocol and PTZ Address parameters of the speed dome should be exactly the same as those of the control device.

6.4.2 Maintenance

Upgrade & Maintenance

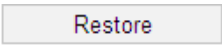
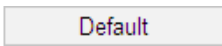
● Rebooting the Speed dome

Steps:

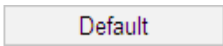
1. Enter the Maintenance interface:
2. **Configuration > System > Maintenance > Upgrade & Maintenance:**
3. Click  to reboot the network speed dome.

● Restoring Default Settings

Steps:

1. Enter the Maintenance interface:
Configuration > System > Maintenance > Upgrade & Maintenance:
2. Click  or  to restore the default settings.



Clicking  restores all the parameters to default settings including the IP address and user information. Please use this button with caution.

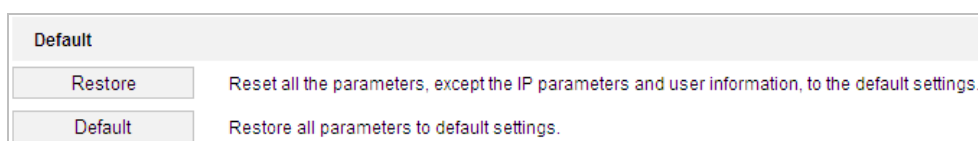
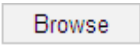


Figure 6-49 Restore Default Settings

● Importing/Exporting Configuration File

Steps:

1. Enter the Maintenance interface:
Configuration > System > Maintenance > Upgrade & Maintenance:
2. Click  to select the local configuration file and then click  to start importing configuration file.



You need to reboot the speed dome after importing configuration file.

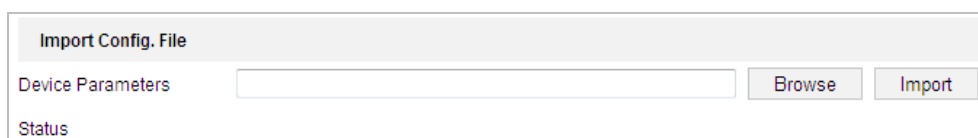
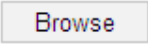
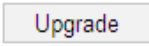


Figure 6-50 Import Configuration File

● Upgrading the System

Steps:

1. Enter the Maintenance interface:
Configuration > System > Maintenance > Upgrade & Maintenance
2. Select Firmware or Firmware Directory.
 - **Firmware:** when you select **Firmware**, you need to find the firmware in your computer to upgrade the device.
 - **Firmware Directory:** You need to find the directory where the firmware locates. The device can find the firmware in the directory automatically.
3. Click  to select the local upgrade file and then click  to start remote upgrade.



The upgrading process will take 1 to 10 minutes. Please don't disconnect power of the speed dome during the process. The speed dome reboots automatically after upgrading.



Figure 6-51 Remote Upgrade

Log Searching

Purpose:

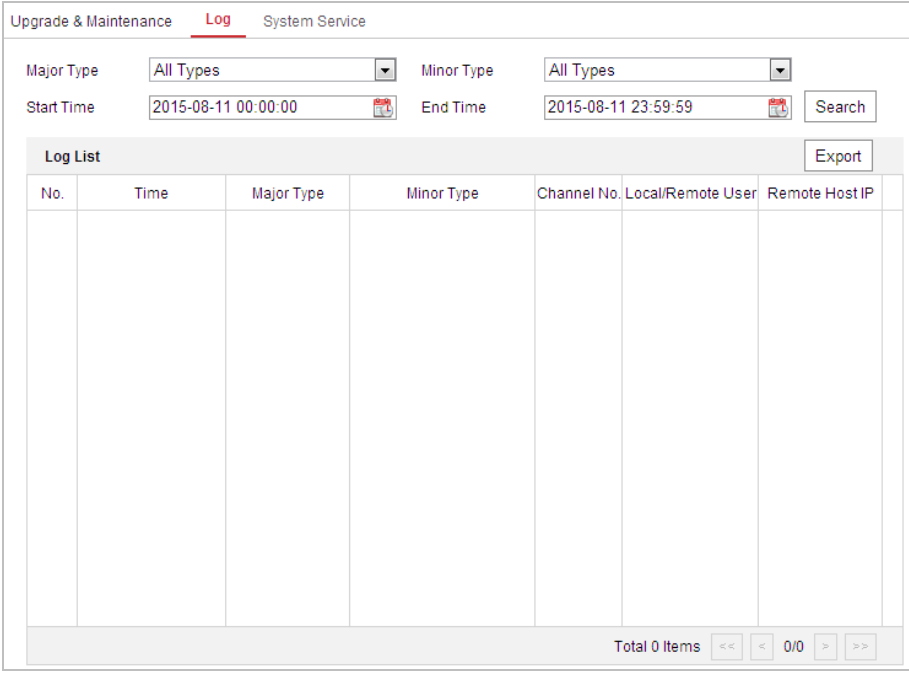
The operation, alarm, exception and information of the speed dome can be stored in log files. You can also export the log files on your demand.

Before you start:

Please configure network storage for the speed dome or insert a memory card in the speed dome.

Steps:

1. Enter the Log interface:
Configuration > System > Maintenance > Log



The interface shows a 'Log' tab selected under 'Upgrade & Maintenance'. It includes search filters for Major Type (All Types), Minor Type (All Types), Start Time (2015-08-11 00:00:00), and End Time (2015-08-11 23:59:59). A 'Search' button is present. Below the filters is a 'Log List' table with columns: No., Time, Major Type, Minor Type, Channel No., Local/Remote User, and Remote HostIP. An 'Export' button is to the right of the table. At the bottom, it shows 'Total 0 Items' and pagination controls.

No.	Time	Major Type	Minor Type	Channel No.	Local/Remote User	Remote HostIP
Total 0 Items						

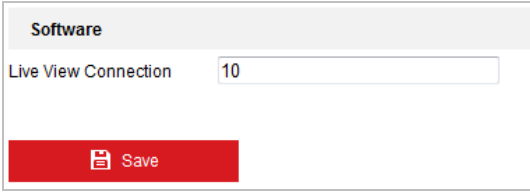
Figure 6-52 Log Searching Interface

- Set the log search conditions to specify the search, including the Major Type, Minor Type, Start Time and End Time as shown in Figure 6-52.
- Click **Search** to search log files. The matched log files will be displayed on the **Log** interface.
- To export the log files, click **Save Log** to save the log files in your computer.

System Service

Steps:

- Enter the interface of configuring the remote connection:
Configuration > System > Maintenance > System Service
- Input a number in text field as the upper limit of the remote connection number. E.g. when you specify the remote connection number as 10, then the 11th remote connection cannot be established.



The 'Software' configuration window shows 'Live View Connection' set to 10. A red 'Save' button is at the bottom.

Figure 6-53 Live View Connection Settings

- Click **Save** button to activate the settings.

6.4.3 Security

Configuring Authentication Security

Purpose:

You can specifically secure the stream data of live view.

Steps:

1. Enter the Authentication interface:
Configuration > System > Security > Authentication
2. Set the authentication mode for each authentication type.
RTSP Authentication: Select the authentication mode as basic or disable in the dropdown list to enable or disable the RTSP authentication.
3. Click  to save the settings.

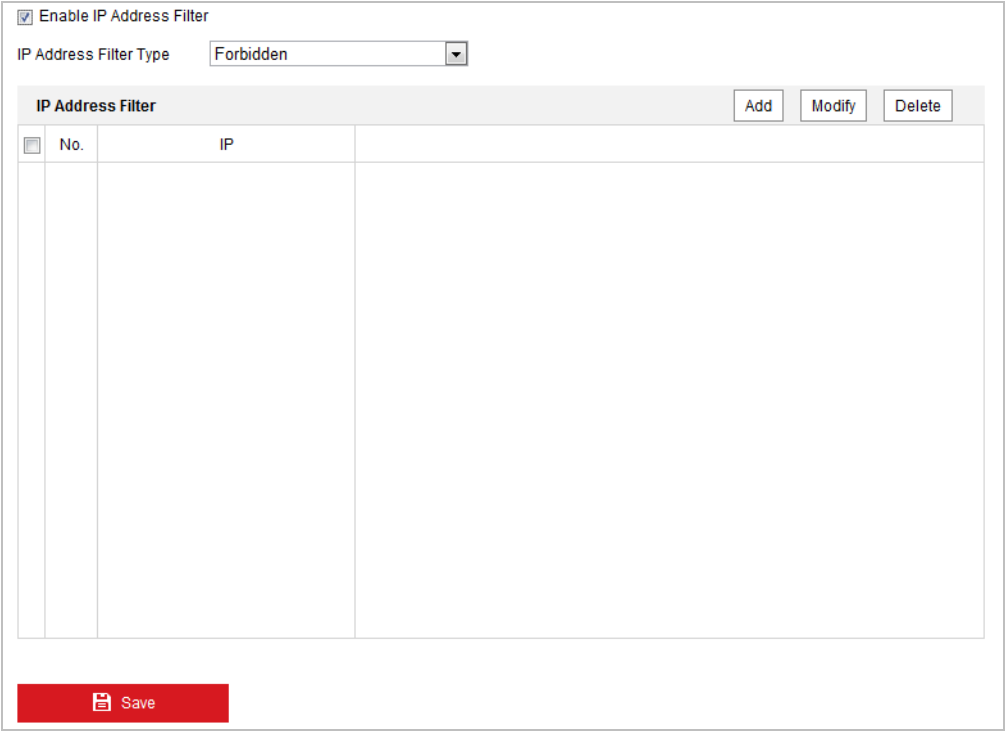
Configuring IP Address Filter

Purpose:

With this function on, the camera allows certain IP addresses whether to log in or not.

Steps:

1. Enter IP Address Filter interface:
Configuration > System > Security > IP Address Filter



☒ Enable IP Address Filter

IP Address Filter Type: Forbidden

IP Address Filter		Add	Modify	Delete
No.	IP			



Figure 6-54 IP Address Filter

2. Check the checkbox of **Enable IP Address Filter**.
3. Select the type of IP Address Filter in the dropdown list, Forbidden and Allowed are selectable.
4. Set the IP Address Filter list.

- **Add an IP Address**

Steps:

- (1) Click **Add** to add an IP.
- (2) Input the IP Address.



Figure 6-55 Add an IP

- (3) Click **OK** to finish adding.

- **Modify an IP Address**

Steps:

- (1) Left-click an IP address from filter list and click **Modify**.
- (2) Modify the IP address in the text filed.

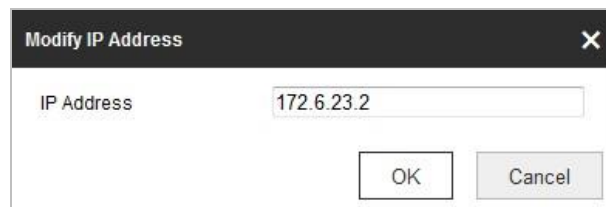


Figure 6-56 Modify an IP

- (3) Click **OK** to finish modifying.

- **Delete an IP Address**

Left-click an IP address from filter list and click **Delete**.

- **Delete all IP Addresses**

Click **Clear** to delete all the IP addresses.

5. Click  to save the settings.

Configure Security Service Settings

Steps:

1. Enter the Security Service interface:
Configuration > System > Security > Security Service
2. Check the checkbox to enable the SSH function.
Enable SSH: Enabling SSH (Secure Shell) function is to encrypt and compress the data and to reduce the transmission time.
3. Check the checkbox to enable the Illegal Login Lock function.
Illegal Login Lock: Enabling illegal login lock function is to automatically lock the device IP after the admin user performing 7 failed password attempts (5 attempts for the user/operator).

permissions for the new user.

- Click  to finish the user addition.

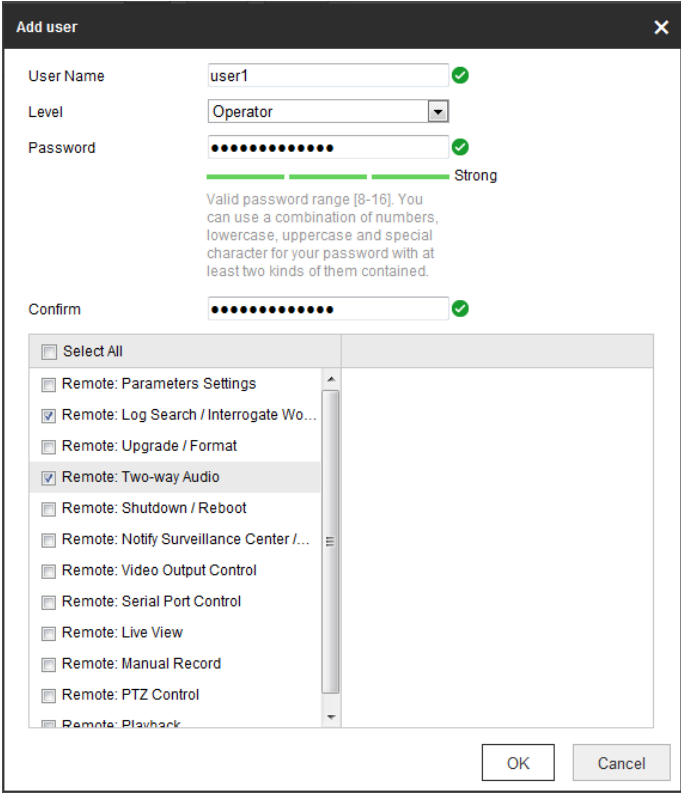


Figure 6-58 Add a User

● Modify a User

Steps:

- Left-click to select the user from the list and click .
- Modify the **User Name**, **Level** or **Password**.
- In the **Basic Permission** field and **Camera Configuration** field, you can check or uncheck the permissions.
- Click  to finish the user modification.

Modify user

User Name: user1

Level: Operator

Password: •••••

Valid password range [8-16]. You can use a combination of numbers, lowercase, uppercase and special character for your password with at least two kinds of them contained.

Confirm: •••••

☐ Select All

- ☐ Remote: Parameters Settings
- ☒ Remote: Log Search / Interrogate Wo...
- ☐ Remote: Upgrade / Format
- ☒ Remote: Two-way Audio
- ☐ Remote: Shutdown / Reboot
- ☐ Remote: Notify Surveillance Center /...
- ☐ Remote: Video Output Control
- ☐ Remote: Serial Port Control
- ☒ Remote: Live View
- ☒ Remote: Manual Record
- ☒ Remote: PTZ Control
- ☒ Remote: Playback

OK Cancel

Figure 6-59 Modify a User

● Delete a User

Steps:

1. Left-click the user name you want to delete and click .
2. Click  on the pop-up dialogue box to delete the user.

Online Users

Enter the Online Users configuration interface:

Configuration > System > User Management > Online Users

Appendix

SADP Software Introduction

● Description of SADP

SADP (Search Active Devices Protocol) is a kind of user-friendly and installation-free online device search tool. It searches the active online devices within your subnet and displays the information of the devices. You can also modify the basic network information of the devices using this software.

● Search active devices online

◆ Search online devices automatically

After launch the SADP software, it automatically searches the online devices every 15 seconds from the subnet where your computer locates. It displays the total number and information of the searched devices in the Online Devices interface. Device information including the device type, IP address and port number, etc. will be displayed.

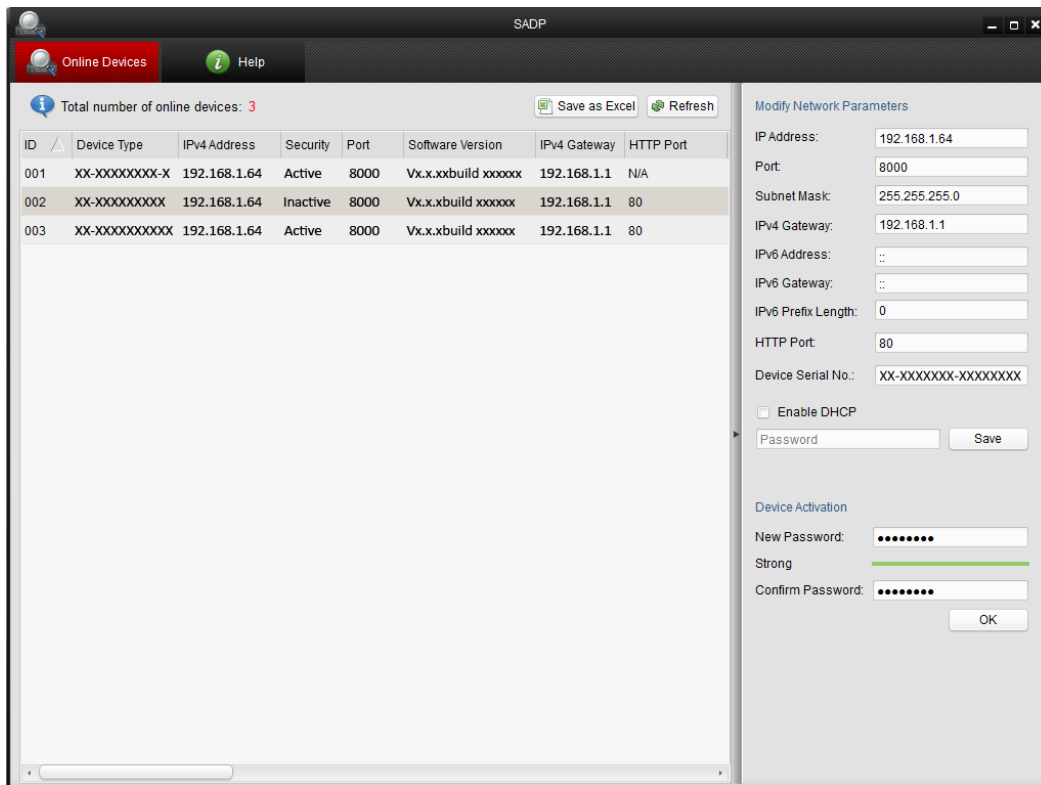
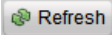


Figure A.1.1 Searching Online Devices



Device can be searched and displayed in the list in 15 seconds after it went online; it will be removed from the list in 45 seconds after it went offline.

◆ Search online devices manually

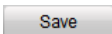
You can also click  to refresh the online device list manually. The newly searched devices will be added to the list.



You can click  or  on each column heading to order the information; you can click  to expand the device table and hide the network parameter panel on the right side, or click  to show the network parameter panel.

● Modify network parameters

Steps:

1. Select the device to be modified in the device list and the network parameters of the device will be displayed in the **Modify Network Parameters** panel on the right side.
2. Edit the modifiable network parameters, e.g. IP address and port number.
3. Enter the password of the admin account of the device in the **Password** field and click  to save the changes.



- *For your privacy and to better protect your system against security risks, we strongly recommend the use of strong passwords for all functions and network devices. The password should be something of your own choosing (using a minimum of 8 characters, including upper case letters, lower case letters, numbers and special characters) in order to increase the security of your product.*
- *Proper configuration of all passwords and other security settings is the responsibility of the installer and/or end-user.*

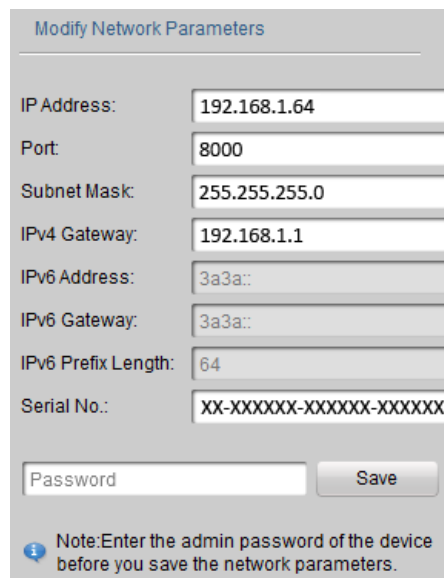


Figure A.1.2 Modify Network Parameters



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