



IR Network Speed Dome

User Manual

V4.0.2



Hangzhou Hikvision Digital Technology Co., Ltd.

<http://www.hikvision.com>

Thank you for purchasing our product. If there are any questions, or requests, please do not hesitate to contact the dealer.

This manual applies to Network Speed Dome.

This manual may contain several technical or printing errors, and the content is subject to change without notice. The updates will be added to the new version of this manual. We will readily improve or update the products or procedures described in the manual.

DISCLAIMER STATEMENT

“Underwriters Laboratories Inc. (“UL”) has not tested the performance or reliability of the security or signaling aspects of this product. UL has only tested for fire, shock or casualty hazards as outlined in UL’s Standard(s) for Safety, UL60950-1. UL Certification does not cover the performance or reliability of the security or signaling aspects of this product. UL MAKES NO REPRESENTATIONS, WARRANTIES OR CERTIFICATIONS WHATSOEVER REGARDING THE PERFORMANCE OR RELIABILITY OF ANY SECURITY OR SIGNALING RELATED FUNCTIONS OF THIS PRODUCT.”



Regulatory Information

FCC Information

FCC compliance: This equipment has been tested and found to comply with the limits for 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 2004/108/EC.



2002/96/EC (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.

Safety Warnings and Cautions

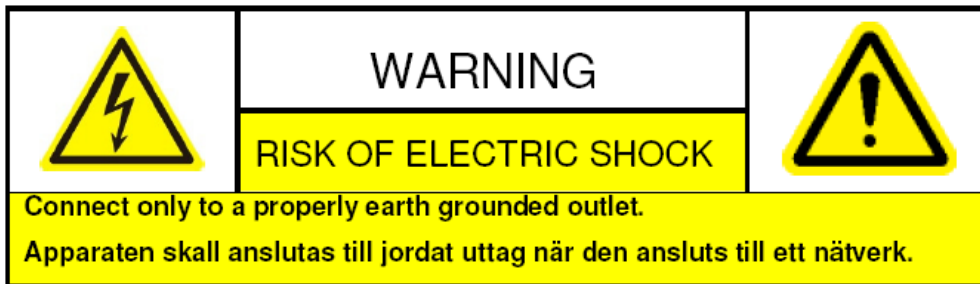
Please pay attention to the following warnings and cautions:



Hazardous Voltage may be present: Special measures and precautions must be taken when using this device. Some potentials (voltages) on the device may present a hazard to the user. This device should only be used by employees from our company with knowledge and training in working with these types of devices that contain live circuits.



Power Supply Hazardous Voltage: AC mains voltages are present within the power supply assembly. This device must be connected to a UL approved, completely enclosed power supply, of the proper rated voltage and current. **No user serviceable parts inside the power supply.**

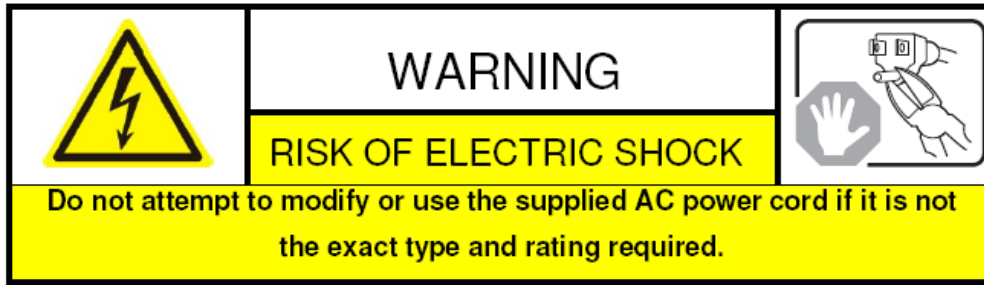


System Grounding (Earthing): To avoid shock, ensure that all AC wiring is not exposed and that the earth grounding is maintained. Ensure that any equipment to which this device will be attached is also connected to properly wired grounded receptacles and are approved medical devices.



Power Connect and Disconnect: The AC power supply cord is the main disconnect device to mains (AC power). The socket outlet shall be installed near the equipment and shall be readily accessible.

Installation and Maintenance: Do not connect/disconnect any cables to or perform installation/maintenance on this device during an electrical storm.



Power Cord Requirements: The connector that plugs into the wall outlet must be a grounding-type male plug designed for use in your region. It must have certification marks showing certification by an agency in your region. The connector that plugs into the AC receptacle on the power supply must be an IEC 320, sheet C13, female connector. See the following website for more information
<http://kropla.com/electric2.htm>.



Lithium Battery: This device contains a Lithium Battery. There is a risk of explosion if the battery is replaced by an incorrect type. Dispose of used batteries according to the vendor's instructions and in accordance with local environmental regulations.

Perchlorate Material: Special handling may apply. See www.dtsc.ca.gov/hazardouswaste/perchlorate. This notice is required by California Code of Regulations, Title 22, Division 4.5, Chapter 33: Best Management Practices for Perchlorate Materials. This device includes a battery which contains perchlorate material.

Taiwan battery recycling:



Please recycle batteries.

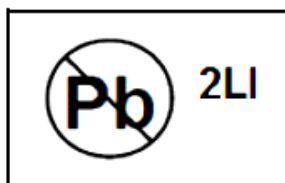


Thermal and Mechanical Injury: Some components such as heat sinks, power regulators, and processors may be hot; care should be taken to avoid contact with these components.

Electro Magnetic Interference: This equipment has not been tested for compliance with emissions limits of FCC and similar international regulations. This device is not, and may not be, offered for sale or lease, or sold, or leased until authorization from the United States FCC or its equivalent in other countries has been obtained. Use of this equipment in a residential location is prohibited. This equipment generates, uses and can radiate radio frequency energy which may result in harmful interference to radio communications. If this equipment does cause harmful interference to radio or television reception, which can be

determined by turning the equipment on and off, the user is required to take measures to eliminate the interference or discontinue the use of this equipment.

Lead Content:



Please recycle this device in a responsible manner. Refer to local environmental regulations for proper recycling; do not dispose of device in unsorted municipal waste.



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. And source with DC 12V or AC 24V (depending on models) according to the IEC60950-1 and Limited Power Source standard.
- 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.
- Do not place the product in extremely hot, cold temperatures (the operating temperature should be between -10°C ~ 60°C), dusty or damp environment.
- 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 6.0 and above version, Apple Safari 5.02 and above version, Mozilla Firefox 3.5 and above version and Google Chrome8 and above versions.

1.2 Appearance



Figure 1-1 Appearance

1.3 Features

IR features:

- 0 Lux minimum illumination
- Up to 80m radiation distance
- IR light MTBF reaching up to 30,000 hours

System function:

- High performance CCD
- $\pm 0.1^\circ$ Preset Accuracy

- CGI(Common Gateway Interface), PSIA(Physical Security Interoperability Alliance), to ensure greater interoperability between different platforms and compatibility
- 3D intelligent positioning function
- Power-off memory function: restore PTZ & Lens status after reboot

Camera features:

- Auto iris, auto focus, auto white balance, backlight compensation and auto/manual day & night switch, and WDR function optional
- Privacy masks programmable

PTZ features:

- 360° endless pan range and -10°-90° tilt range
- 256 presets programmable; preset image freezing capability
- 8 patrols, up to 32 presets per patrol
- 4 patterns, with the recording time not less than 10 min per pattern
- Proportional pan/tilt function
- Park action: auto callup of PTZ movement, after a defined time of inactivity

Network features:

- H.264/MJPEG video compression
- Built-in Web server
- SD/SDHC card local storage
- Dual stream
- Multiple network protocols supported

1.4 Functions

- **Limit Stops**

The dome can be programmed to move within the limit stops (left/right, up/down).

- **Scan Modes**

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

- **Preset Freezing**

This feature freezes the scene on the monitor when the dome is moving to a preset. This allows for smooth transition from one preset scene to another. It also guarantees that masked area will not be revealed when the dome is moving to a preset.

- **Presets**

A preset is a predefined image position. When the preset is called, the 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 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 dome, the

video will automatically flip 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 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.

Note: This feature varies depending on speed dome models.

- **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 dome supports the power off memory capability with the predefined resume time. It allows the 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 dome to start a predefined action automatically after a period of inactivity.

- **User Management**

The 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.

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

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 iVMS-4200 software to search and change the IP of the network speed dome.

Note: For the detailed introduction of SADP, please refer to Appendix 1.

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.

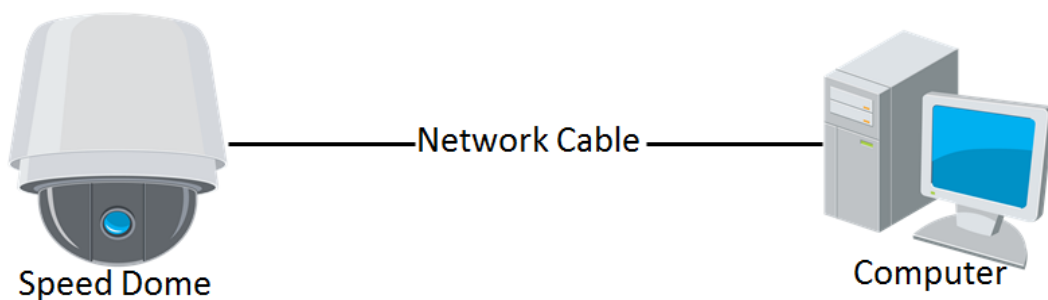


Figure 2-1 Connecting Directly

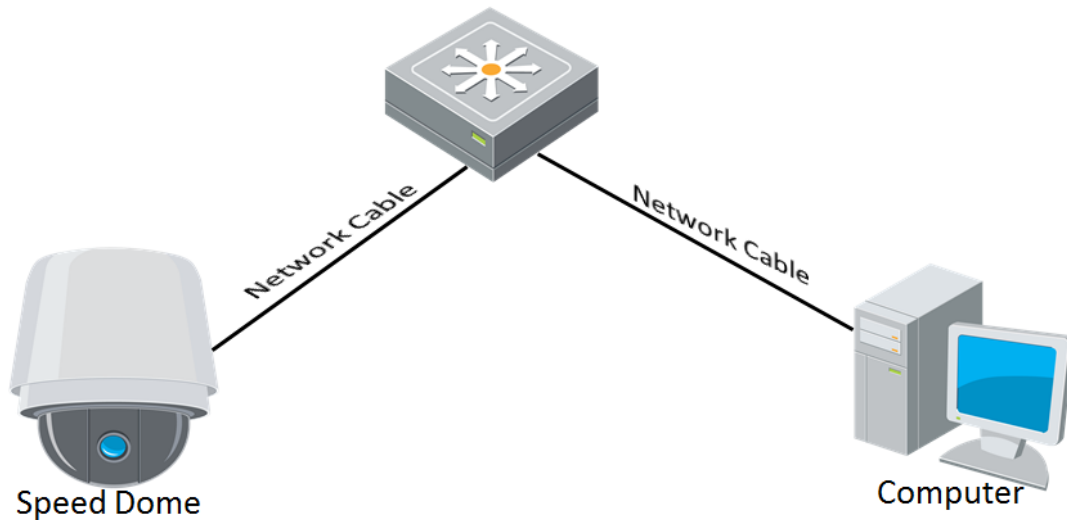


Figure 2-2 Connecting via a Switch or a Router

2.1.2 Detecting and Changing the IP Address

You need the IP address to visit the network speed dome.

Steps:

1. To get the IP address, you can choose either of the following methods:
 - ◆ Use SADP, a software tool which can automatically detect the online network speed domes in the LAN and list the device information including IP address, subnet mask, port number, device serial number, device version, etc., shown in Figure 2-3.
 - ◆ Use the client software to list the online devices. Please refer to the user manual of client software for detailed information.
2. Change the IP address and subnet mask to the same subnet as that of your computer.
3. Enter the IP address of network speed dome in the address field of the web browser to view the live video.

Notes:

- The default IP address is 192.0.0.64. The default user name is admin, and password is 12345.
- For accessing the network speed dome from different subnets, please set the gateway for the network speed dome after you logged in. For detailed information, please refer to Section **6.3.1 Configuring TCP/IP Settings**.

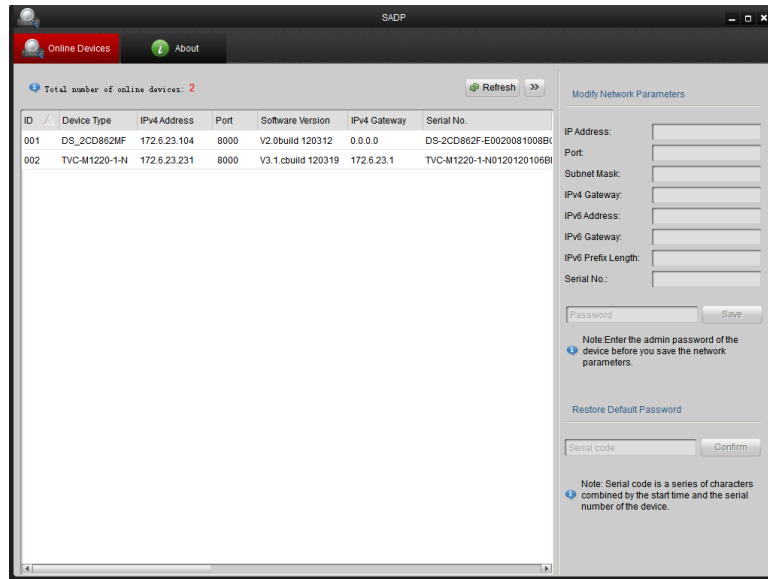


Figure 2-3 SADP Interface

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:

1. Connect the network speed dome to the router.
2. Assign a LAN IP address, the subnet mask and the gateway. Refer to Section **2.1.2 Detecting and Changing the IP Address** for detailed IP address configuration of the speed dome.
3. Save the static IP in the router.
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.

Note: Refer to Appendix 2 for detailed information about port mapping.

5. Visit the network speed dome through a web browser or the client software over the internet.

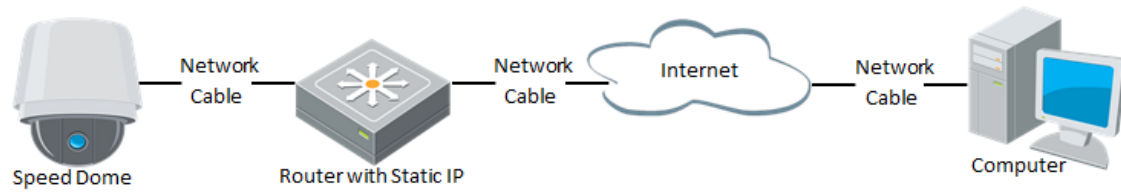


Figure 2-4 Accessing the Speed Dome through Router with Static IP

- **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 Detecting and Changing the IP Address** for detailed IP address configuration of the speed dome.

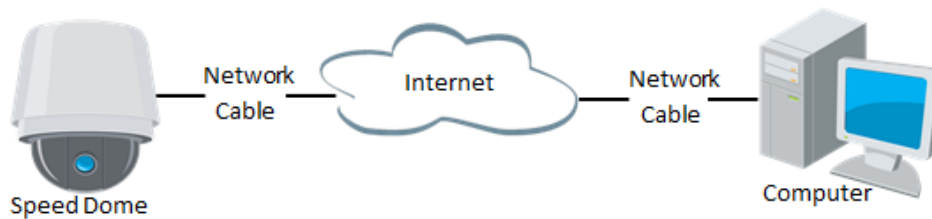


Figure 2-5 Accessing the Speed Dome with Static IP Directly

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 Detecting and Changing the IP Address** for detailed LAN configuration.
3. In the router, set the PPPoE user name, password and confirm the password.
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.

Note: Refer to Appendix 2 for detailed information about 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 **6.3.3 Configuring PPPoE Settings** for detailed configuration.

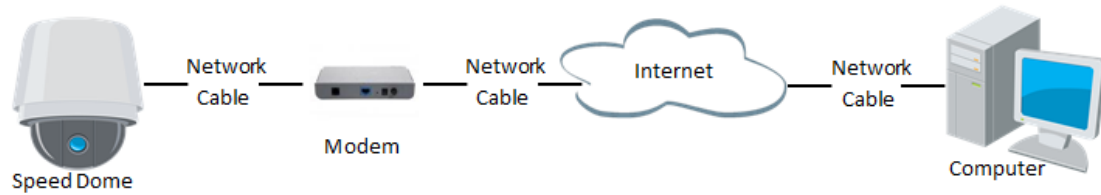


Figure 2-6 Accessing the Speed Dome with Dynamic IP

Note: 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

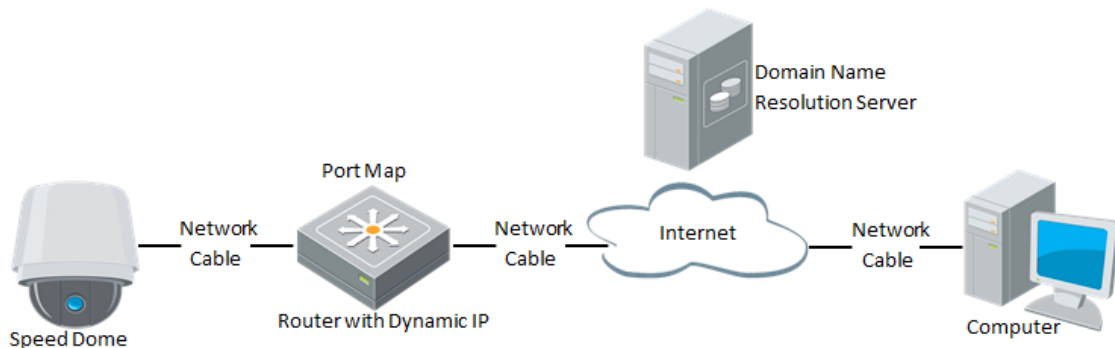


Figure 2-7 Normal Domain Name Resolution

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 **6.3.4 Configuring DDNS Settings** for detailed configuration.
3. Visit the speed dome via the applied domain name.

◆ Private Domain Name Resolution

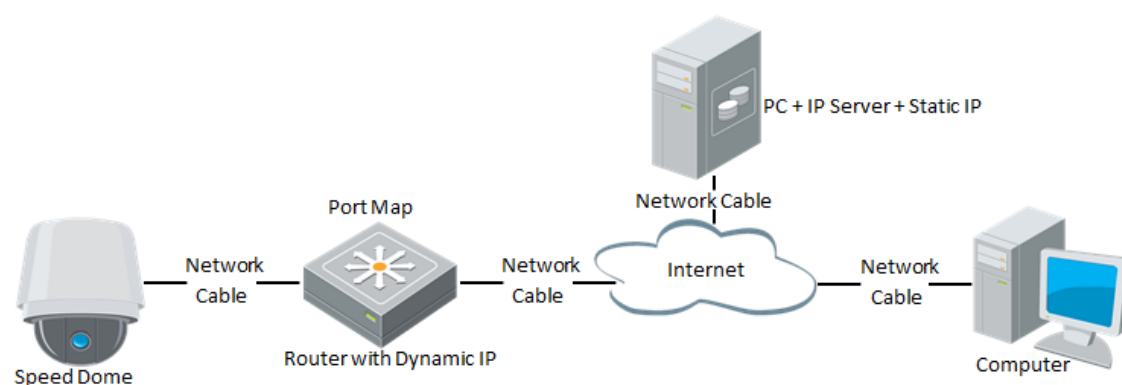


Figure 2-8 Private Domain Name Resolution

Steps:


1. Install and run the IP Server software in a computer with a static IP.
2. Access the network speed dome through the LAN with a web browser or the client software.
3. Enable DDNS and select IP Server as the protocol type. Refer to Section **6.3.4 Configuring DDNS Settings** for detailed configuration.

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., 192.0.0.64 and press the **Enter** key to enter the login interface.
3. Input the user name and password and click .

Note: The default user name is admin, password is 12345.

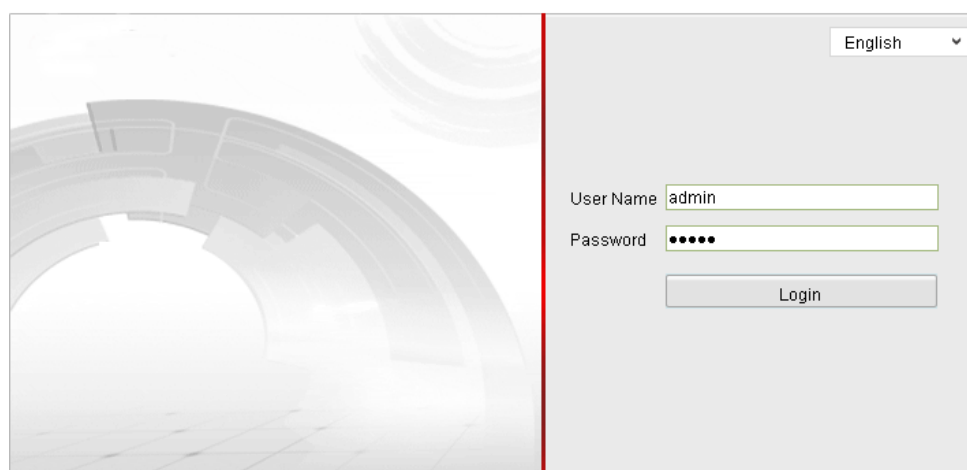


Figure 3-1 Login Interface

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

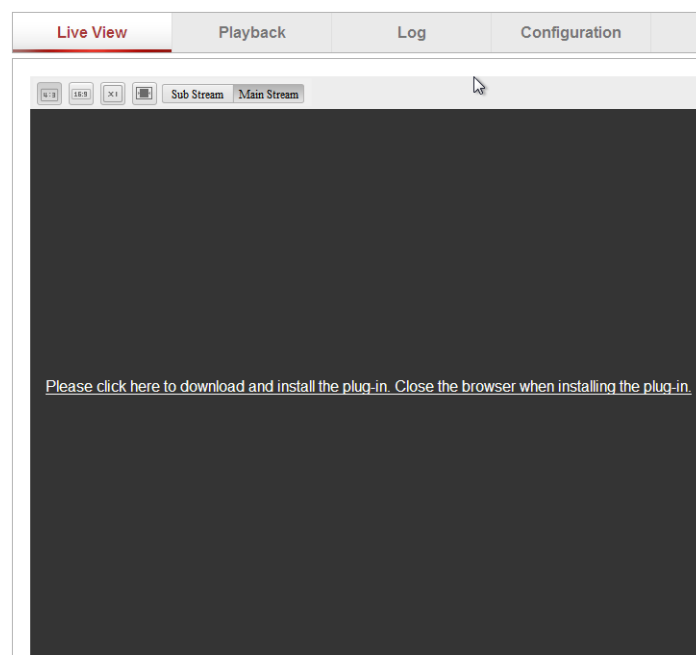


Figure 3-2 Download and Install Plug-in

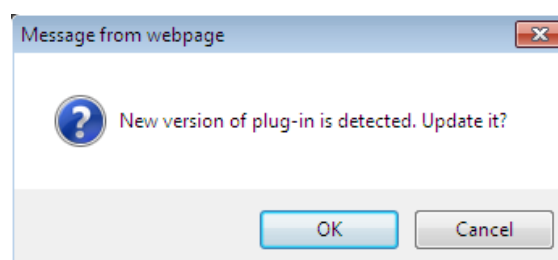


Figure 3-3 Install Plug-in (1)

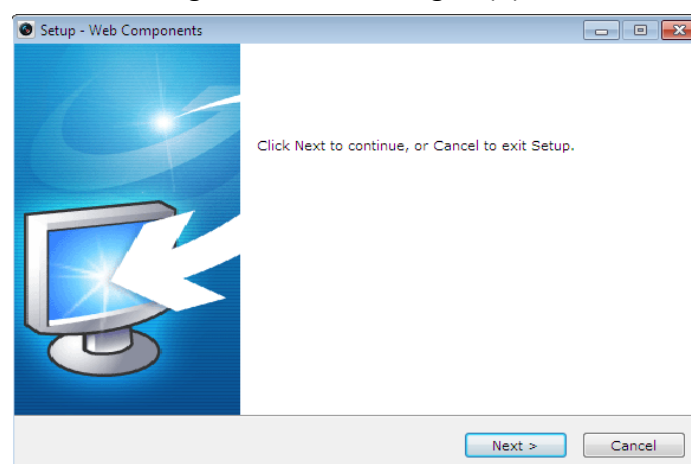


Figure 3-4 Install Plug-in (2)

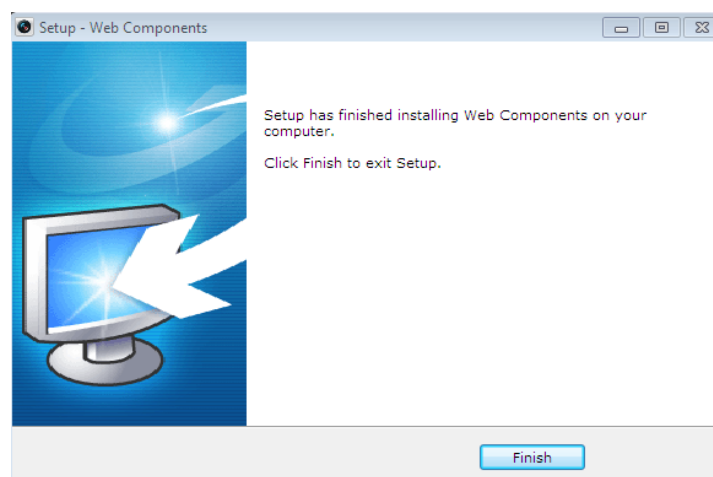


Figure 3-5 Install Plug-in (3)

Note: 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.

3.2 Accessing by Client Software

3.2.1 Installing iVMS-4200 Software

The product CD contains the iVMS-4200 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 control panel and live view interface of iVMS-4200 are shown as bellow.

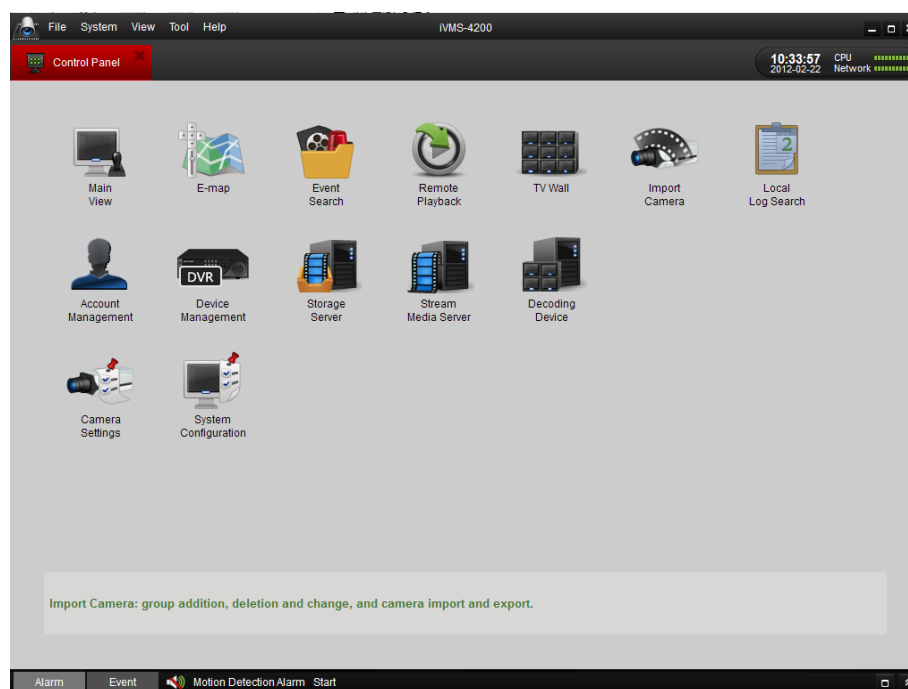


Figure 3-6 iVMS-4200 Control Panel

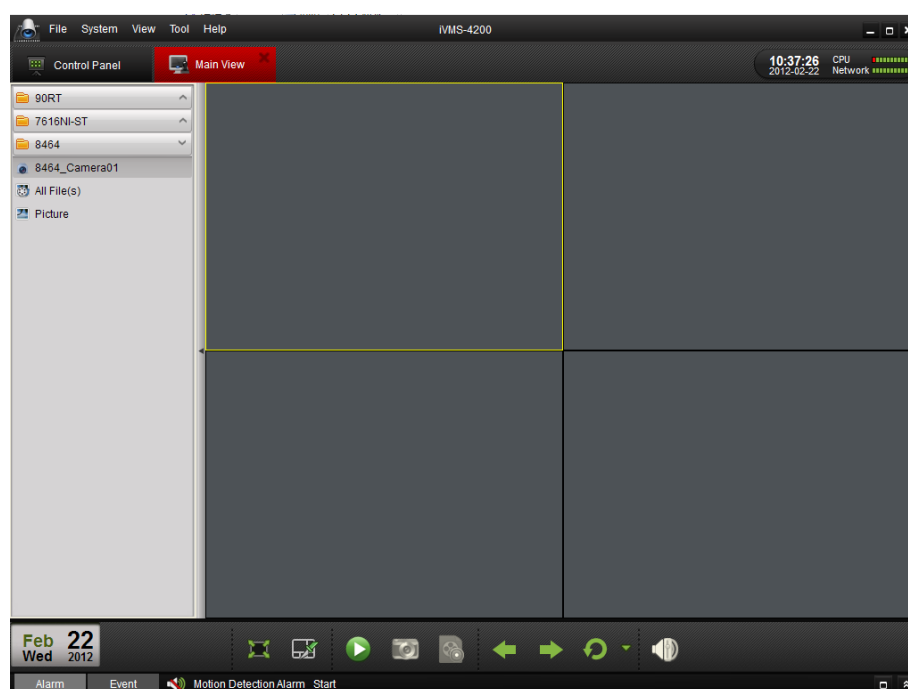



Figure 3-7 iVMS-4200 Live View Interface

3D Positioning:

Steps:

1. Click  on the PTZ control panel of live view interface.
2. Operate the 3D positioning function:
 - Left 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.

Note: For detailed information about iVMS-4200 client software, please refer to the user manual of the iVMS-4200 software. This manual mainly introduces accessing to the network speed dome by web browser.

Chapter 4 Live View

4.1 Power-up Action

After the power is applied, the speed dome will perform self-test actions. It begins with lens actions and then pan and tilt movement. After the power-up self-test actions, the information as shown in Figure 4-1 will be displayed on screen for 40 seconds.

The system information displayed on the screen includes the dome model, address, protocol, version and other information. The COMMUNICATION refers to the baud rate, parity, data bit and stop bit of the dome. e.g., “2400, N, 8, 1” indicates the dome is configured with the baud rate of 2400, no parity, 8 data bits and 1 stop bit.

Model	XX-2XX1-XXXX
ADDRESS	0
COMMUNICATION	0000,0,0,0
SOFTWARE VERSION	V000
CAMERA VERSION	
LANGUAGE	ENGLISH

Figure 4-1 Power-up information

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:

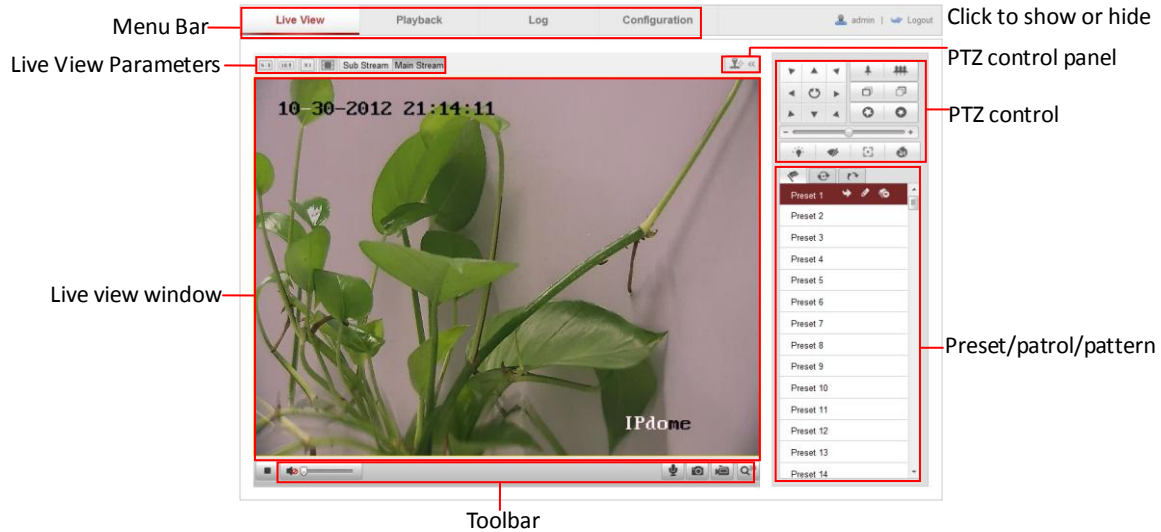


Figure 4-2 Live View Page

Menu Bar:

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

Live View Window:

Display the live video.

Toolbar:

Operations on the live view page, e.g., live view, capture, record, audio on/off, two-way audio, 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.

Live View Parameters:

Configure the image size and stream type 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.

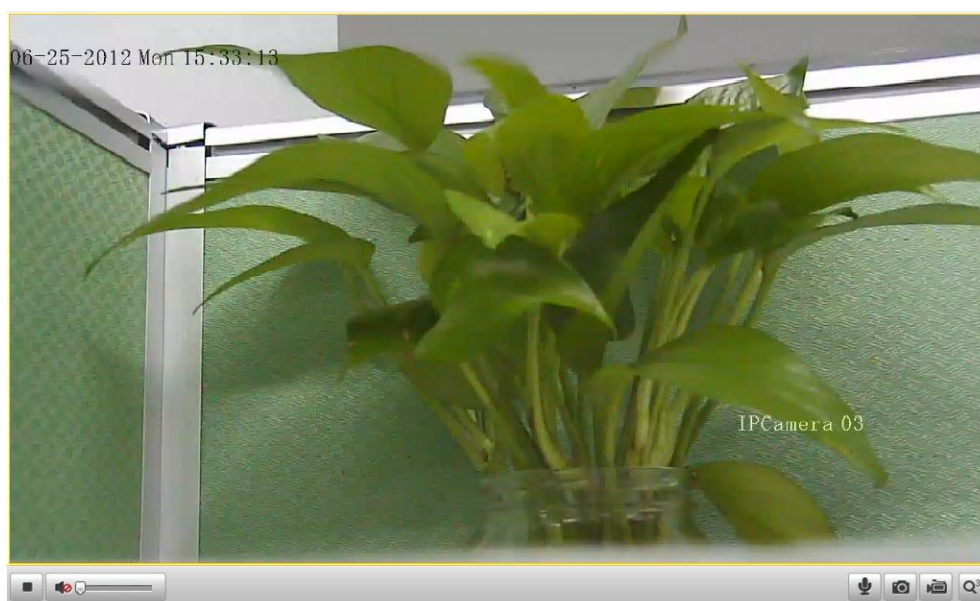


Figure 4-3 Start Live View

Table 4-1 Descriptions of the Toolbar

Icon	Description	Icon	Description
	Live view on		Live view off
	Manually capture the pictures		
	Manual recording off		Manual recording on
	Audio on and adjust volume		Mute
	Two-way audio off		Two-way audio on
	3D positioning		

Note: Before using the two-way audio or recording with audio functions, please set the **Stream Type** to **Video & Audio** referring to Section **6.4.1 Configuring Video Settings**.



Full-screen Mode

You can double-click on the live video to switch the current live view into full-screen or return to normal mode from the full-screen.

Please refer to the following sections for more information:

- Configuring remote recording in Section **7.2 Configuring Recording Schedule**.
- Setting the image quality of the live video in Section **6.1 Configuring Local Parameters** and Section **6.4.1 Configuring Video Settings**.
- Setting the OSD text on live video in Section **6.5.2 Configuring OSD Settings**.

4.4 Recording and Capturing Pictures Manually

In the live view interface, click  on the toolbar to capture the live pictures or click  to record the live video. The local saving paths of the captured pictures and clips can be set in the **Configuration > Local Configuration** interface. To configure remote automatic recording, please refer to Section **7.2 Configuring Recording Schedule**.



Note: The captured image will be saved as a JPEG file in your computer.

4.5 Operating PTZ Control

Purpose:

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

4.5.1 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.

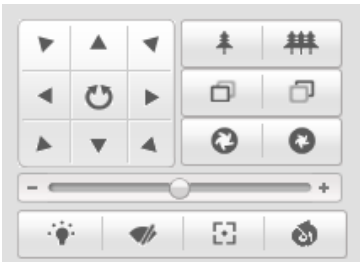






Figure 4-4 PTZ Control Panel

Table 4-2 Descriptions of PTZ Control Panel

Button	Description
	Zoom in/out
	Focus near/far
	Iris open/close
	Adjust speed of pan/tilt movements

4.5.2 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.

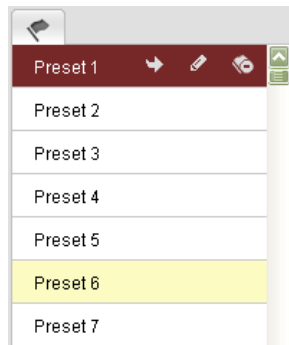





Figure 4-5 Setting a Preset

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. You can click  to delete the preset.

Note: 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.

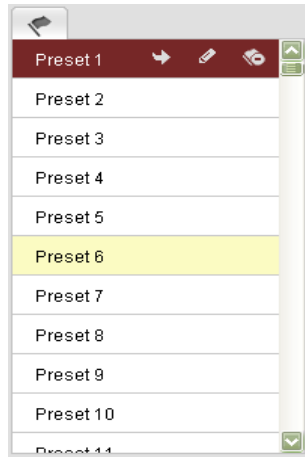


Figure 4-6 Calling a Preset

Note: 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.

Table 4-3 Special Presets

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

4.5.3 Setting / Calling a Patrol

Purpose:


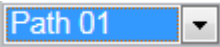

A patrol is a memorized series of preset function. It can be configured and called on the patrol settings interface. There are up to 8 patrols for customizing. A patrol can be configured with 32 presets.

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 .
3. Click  to enter the adding interface of preset as shown in Figure 4-7.

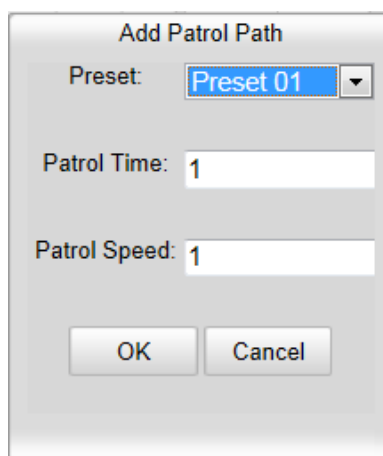
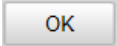



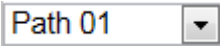

Figure 4-7 Adding Presets

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  to save a preset into the patrol.
6. Repeat the steps from 3 to 5 to add more presets.
7. Click  to save all the patrol settings.

● Calling a Patrol:

In the PTZ control panel, select a defined patrol from  and click  to call the patrol as shown in Figure 4-8.

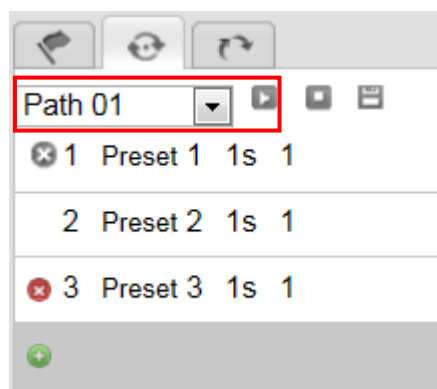


Figure 4-8 Calling a Preset

● **Buttons on the Patrols interface:**

Buttons	Description
	Save a patrol
	Call a patrol
	Stop a patrol
	Enter the adding interface of preset
	Modify a preset
	Delete a preset
	Delete all the presets in one patrol

4.5.4 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.

● **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 4-9.

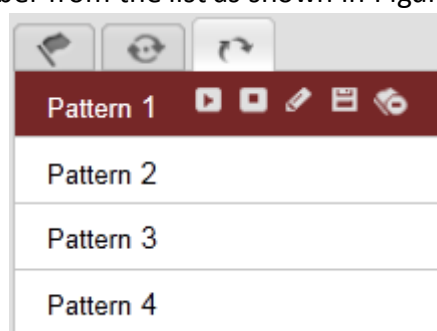


Figure 4-9 Patterns Settings Interface








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(%)** shown in Figure 4-10 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.



Figure 4-10 Remaining Memory

5. Click  to save all the pattern settings.

● **Buttons on the Patterns interface:**

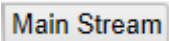
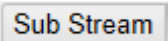
Buttons	Description
	Start to record a pattern.
	Stop recording a pattern.
	Call the current pattern.
	Stop the current pattern.
	Delete the current pattern.

Notes:

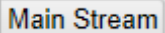
- These 4 patterns can be operated separately and with no priority level.
- When configuring and calling the pattern, proportional pan is valid; the limit stops and auto flip will be invalid; and the 3D positioning operation is not supported.

4.6 Configuring Live View Parameters

● **Mainstream/Sub-stream:**





You can select  or  as the stream type of live viewing.

The main stream is with a relatively high resolution and needs much bandwidth. The sub-stream is with a low resolution and needs less bandwidth. The default setting of

stream type is .

Note: Please refer to Section **6.4.1 Configuring Video Settings** for more detailed parameter settings of the main stream and sub-stream respectively.

- **Image Size:**

You can scale up/down the live view image by clicking    . the image size can be 4:3, 16:9, original or auto.

Chapter 5 PTZ Configuration

5.1 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 > Advanced Configuration > PTZ > Initial Position

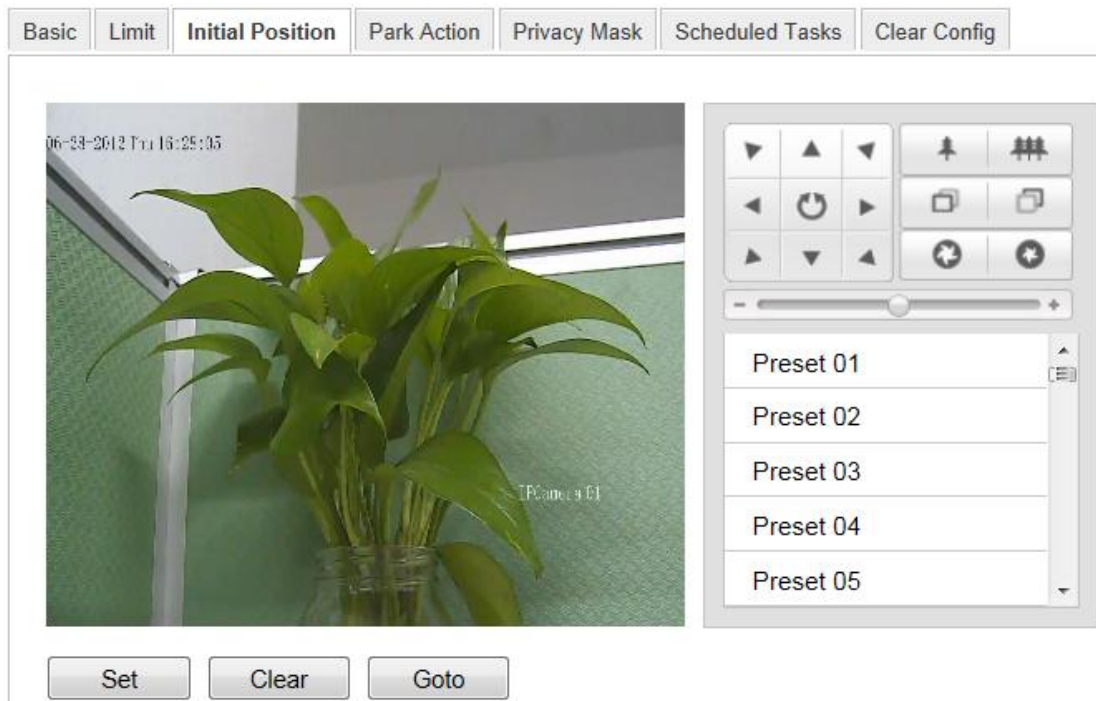
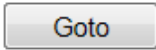
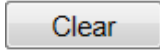


Figure 5-1 PTZ Configuration

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

5.2 Configuring Basic PTZ Parameters

Purpose:

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

Steps:

1. Enter the Basic PTZ Parameter Configuration interface:

Configuration > Advanced Configuration > PTZ > Basic


The screenshot shows the 'Basic' configuration tab for PTZ parameters. It includes sections for basic parameters (enable proportional pan, enable preset freezing, preset speed, keyboard control speed, auto scan speed), PTZ OSD (zoom status, PT status, preset status), and power off memory (set resume time point). A 'Save' button is located at the bottom right of the configuration area.

Figure 5-2 Basic PTZ Configuration Interface

2. Configure the following settings:

- **Basic Parameters:** Enable/disable proportional pan and preset freezing, set the preset speed, keyboard control speed, and auto scan speed.
 - ◆ **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.

Note: 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.
 - ◆ **Keyboard Control Speed:** Define the speed of PTZ control by a keyboard as Low, Normal or High.
 - ◆ **Auto Scan Speed:** The dome provides 5 scan modes: auto scan, tilt scan, frame scan, random scan and panorama scan. The scan speed can be set from level 1 to 40.

- **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 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 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.

5.3 Configuring PTZ Limit Stops

Purpose:


The dome can be programmed to move within the configurable limit stops (left/right, up/down).

Steps:

1. Enter the Limit Configuration interface:

Configuration > Advanced Configuration > PTZ > Limit

Basic
Limit
Initial Position
Park Action
Privacy Mask
Scheduled Tasks
Clear Config



▶

▲

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⬆

⬆⬆

⬇

⬇⬇

Preset 01

Preset 02

Preset 03

Preset 04

Preset 05

☒ **Enable Limit**

Limit Type

Manual Stops

Type Status

No limited

Set

Clear

Figure 5-3 Configure the PTZ Limit

- Click the checkbox of **Enable Limit** and choose the limit type as manual stops or scan stops.
 - **Manual Stops:**
When you set the manual limit stops, you can operate the PTZ control panel manually only in the limited surveillance area.
 - **Scan Stops:**
When you set the scan limit stops, the random scan, frame scan, auto scan, tilt scan, panorama scan is performed only in the limited surveillance area.
- Note:** **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.
- 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 dome.
- Click **Set** to save the limits or click **Clear** to clear the limits.

5.4 Configuring Scheduled Tasks

Purpose:

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

Steps:

- Enter the Scheduled Task Settings interface:

Configuration > Advanced Configuration > PTZ > Scheduled Tasks

Basic Limit Initial Position Park Action Privacy Mask **Scheduled Tasks** Clear Config

☒ Enable Scheduled Task

Park Time second

Timing Tasks Edit Tasks

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

Note: Red and green colors are used to distinguish the neighboring scheduled tasks.

Save

Figure 5-4 Configure Scheduled Tasks

- Check the checkbox of **Enable Scheduled Task**.
- Set the **Park Time**. You can set the park time (a period of inactivity) before the

dome starts the scheduled tasks.

4. Set the schedule and task details.

Steps:

(1) Click **Edit Tasks** to edit the task schedule.

Timing Tasks

Mon Tue Wed Thu Fri Sat Sun

☐ All Day Close

☒ Customize

Period	Start Time	End Time	Task Type	Task Type ID
1	00:00	00:00	Close	
2	10:30		Close	
3	00:00	00:00	Close	
4	00:00	00:00	Close	
5	00:00	00:00	Close	
6	00:00	00:00	Close	
7	00:00	00:00	Close	
8	00:00	00:00	Close	
9	00:00	00:00	Close	
10	00:00	00:00	Close	

Copy to Week ☐ Select All

☒ Mon ☐ Tue ☐ Wed ☐ Thu ☐ Fri ☐ Sat ☐ Sun Copy

OK Cancel

Figure 5-5 Edit the Schedule and Task Type

- (2) Choose the day you want to set the task schedule.
- (3) Click **All Day** to set the schedule as all day; or click **Customize** and input the **Start Time** and **End Time** for each task, and click **Enter** on your keyboard to enter the time.
- (4) Choose the task type from the drop-down list. You can choose scan, preset, pattern and etc.

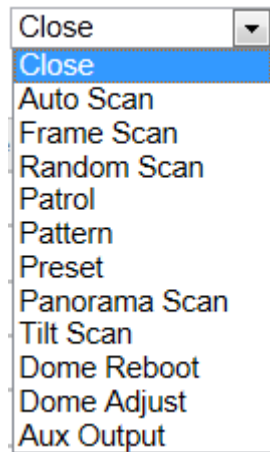


Figure 5-6 Task Types

(5) After you set the scheduled task, you can copy the task to other days (Optional).

(6) Click to save the settings.

Note: The time of each task can't be overlapped. Up to 10 tasks can be configured for each day.

5. Click to save the settings.

5.5 Configuring Park Actions

Purpose:

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

Note: **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.

Steps:

1. Enter the Park Action Settings interface:

Configuration > Advanced Configuration > PTZ > Park Action

Figure 5-7 Set the Park Action

2. Check the checkbox of **Enable Park Action**.

- Set the **Park Time** as the inactivity time of the dome before it starts the park actions.
- Choose **Action Type** from the drop-down list.

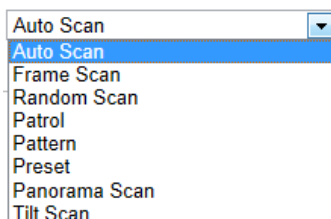


Figure 5-8 Action Types

- Click  to save the settings.

5.6 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:

- Enter the Privacy Mask Settings interface:

Configuration > Advanced Configuration > PTZ > Privacy Mask

☒ Enable Privacy Masks

06-28-2012 Thu 16:43:08

Stop Drawing Clear All

No.	Name	Type	Enable
1	Privacy Mask 1	gray	<input checked="" type="checkbox"/> Yes
2	Privacy Mask 2	gray	<input checked="" type="checkbox"/> Yes

Add Delete

Save

Figure 5-9 Draw the Privacy Mask

- Click the PTZ control buttons to find the area you want to set the privacy mask.
- Click **Draw Area**; click and drag the mouse in the live video window to draw the area.
- Click **Stop Drawing** to finish drawing or click **Clear All** to clear all of the areas you set without saving them.
- Click **Add** to save the privacy mask, and it will be listed in the **Privacy Mask List** area; you can select a mask and click **Delete** to delete it from the list; you can also define the color of the masks.

No.	Name	Type	Enable
1	Privacy Mask 1	gray	<input checked="" type="checkbox"/> Yes
2	Privacy Mask 2	gray	<input type="checkbox"/> Yes

Figure 5-10 Privacy Mask List

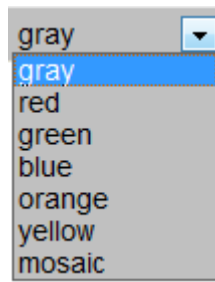


Figure 5-11 Define Mask Color

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

Note: You are allowed to draw up to 24 areas on the same image.

5.7 Clearing PTZ Configurations

Purpose:

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

Steps:

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

Chapter 6 Speed Dome Configuration

6.1 Configuring Local Parameters

Note: 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 Configuration

The screenshot shows the 'Local Configuration' web interface. It has a title bar 'Local Configuration' and three main sections:

- Live View Parameters:**
 - Protocol: Radio buttons for TCP (selected), UDP, MULTICAST, and HTTP.
 - Live View Performance: Radio buttons for Least Delay, Balanced, and Best Fluency (selected).
- Record File Settings:**
 - Record File Size: Radio buttons for 256M, 512M (selected), and 1G.
 - Save record files to: Text input 'C:\Users\shoujieyu\Web\RecordFiles' with a 'Browse' button.
 - Save downloaded files to: Text input 'C:\Users\shoujieyu\Web\DownloadFiles' with a 'Browse' button.
- Picture and Clip Settings:**
 - Save snapshots in live view to: Text input 'C:\Users\shoujieyu\Web\CaptureFiles' with a 'Browse' button.
 - Save snapshots when playback to: Text input 'C:\Users\shoujieyu\Web\PlaybackPics' with a 'Browse' button.
 - Save clips to: Text input 'C:\Users\shoujieyu\Web\PlaybackFiles' with a 'Browse' button.

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

Figure 6-1 Local Configuration Interface

2. Configure the following settings:

- **Live View Parameters:** Set the protocol type, stream type, image size and live view performance.

◆ **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.

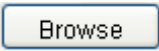
HTTP: Allows the same quality as of TCP without setting specific ports for streaming under some network environments.

MULTICAST: It's recommended to select the protocol type to  MULTICAST

when using the Multicast function. For other information about Multicast,

refer to Section **6.3.1 Configuring TCP/IP Settings**.

- ◆ **Stream Type:** Set the stream type to main stream or sub-stream for live view by web browser. Please refer to Section **6.4.1 Configuring Video Settings** for the parameter settings of the main stream and sub-stream respectively.
- ◆ **Image Size:** Set the image size to original, 4:3 or 16:9.
- ◆ **Live View Performance:** Set the live view performance to Least Delay, Balanced or Best Fluency.
- **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  to change the directory for saving video files, clips and pictures.

3. Click  to save the settings.

6.2 Configuring 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.

To enter the Time Settings interface:

Configuration > Basic Configuration > System > Time Settings

Or **Configuration > Advanced Configuration > System > Time Settings**

Device Information | **Time Settings** | Maintenance

Time Zone: (GMT+08:00) Beijing, Urumqi, Singapore ▼

Time Sync.

☐ NTP

Server Address:

NTP Port:

Interval: min.

☒ Manual Time Sync.

Device Time: 2012-10-30T21:51:37

Set Time: 2012-10-30T21:51:01 ☐ Sync. with computer time

Save

Figure 6-2 Time Settings

● Configuring Time Synchronization by NTP Server

(1) Check the checkbox 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.

Time Sync.

☒ NTP

Server Address:

NTP Port:


Interval: min.

Figure 6-3 Time Sync by NTP Server

Note: 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

(1) Check the **Manual Time Sync** checkbox.

(2) Click  to set the system time from the pop-up calendar.

(3) Click  to save the settings.

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

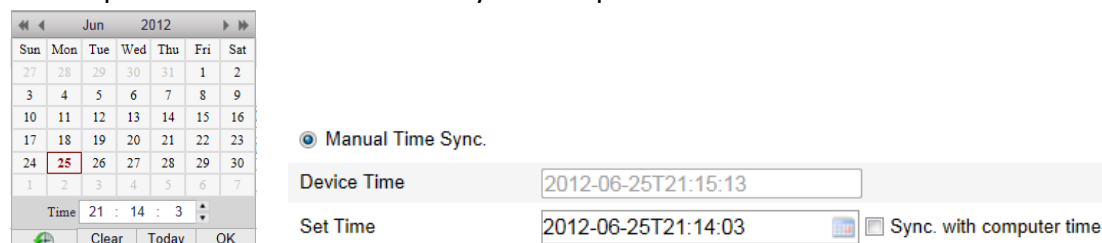


Figure 6-4 Time Sync Manually

● 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** drop-down menu as shown in Figure 6-5, select the Time Zone in which the speed dome locates.



Figure 6-5 Time Zone Settings

6.3 Configuring Network Settings

6.3.1 Configuring TCP/IP Settings

Purpose:

TCP/IP settings must be properly configured before you operate the speed dome over network.

Steps:

1. Enter TCP/IP Settings interface:

Configuration > Basic Configuration > Network > TCP/IP

Or **Configuration > Advanced Configuration > Network > TCP/IP**

TCP/IP Port DDNS PPPoE SNMP FTP

NIC Settings

NIC Type 10M/100M/1000M Auto

IPv4 Address 172.6.21.200

IPv4 Subnet Mask 255.255.255.0

IPv4 Default Gateway 172.6.21.1

☐ DHCP

Mac Address 00:a6:66:13:14:18

MTU 1500

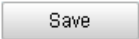
Multicast Address

DNS Server

Preferred DNS Server 10.1.7.88

Save

Figure 6-6 TCP/IP Settings

2. Configure the NIC settings, including the **IPv4 Address**, **IPv4 Subnet Mask** and **IPv4 Default Gateway**.
3. Click  to save the above settings.

Notes:

- 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 ~ 9676. 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**.

6.3.2 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 set the 3 ports for the speed dome.

Steps:

1. Enter the Port Settings interface:

Configuration > Basic Configuration > Network > Port
Or Configuration > Advanced Configuration > Network > Port

The screenshot shows the 'Port' configuration page. At the top, there are two tabs: 'TCP/IP' and 'Port', with 'Port' being the active tab. Below the tabs, there are two rows of configuration fields. The first row is 'HTTP Port' with a text input field containing the number '80'. The second row is 'RTSP Port' with a text input field containing the number '554'. At the bottom right of the form, there is a 'Save' button.

Figure 6-7 Port Settings

- 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.

- Click  to save the settings.

6.3.3 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:

- Enter the PPPoE Settings interface:

Configuration > Advanced Configuration > Network > PPPoE

The screenshot shows the 'PPPoE' configuration page. At the top, there are six tabs: 'TCP/IP', 'Port', 'DDNS', 'PPPoE', 'SNMP', and 'FTP', with 'PPPoE' being the active tab. Below the tabs, there is a checkbox labeled 'Enable PPPoE' which is checked. Underneath the checkbox, there are four rows of input fields. The first row is 'Dynamic IP' with the value '0.0.0.0'. The second row is 'User Name' with the value 'test'. The third row is 'Password' with masked characters (dots). The fourth row is 'Confirm' with masked characters (dots). At the bottom right of the form, there is a 'Save' button.

Figure 6-8 PPPoE Settings

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

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

- Click  to save and exit the interface.

6.3.4 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.

Steps:

1. Enter the DDNS Settings interface:

Configuration > Advanced Configuration > Network > DDNS

The screenshot shows the DDNS configuration page. At the top, there are tabs: TCP/IP, Port, DDNS (selected), PPPoE, SNMP, and FTP. The main content area has a checkbox labeled 'Enable DDNS' which is checked. Below this is a dropdown menu for 'DDNS Type' currently showing 'IPServer'. There are several text input fields: 'Server Address', 'Domain', 'Port' (with a small '0' in the field), 'User Name', 'Password', and 'Confirm'. A 'Save' button is located at the bottom right of the form area.

Figure 6-9 DDNS Settings

2. Check the **Enable DDNS** checkbox to enable this feature.
3. Select **DDNS Type**. Two DDNS types are selectable: IPServer and DynDNS.

● **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 6-10 DynDNS Settings

● IP Server:

Steps:

(1) Enter the Server Address of the IP Server.

(2) Click  to save the settings.

Note: The **Server Address** should be entered with the static IP address of the computer that runs the IP Server software. For the IP Server, you have to apply a static IP, subnet mask, gateway and preferred DNS from the ISP.

Figure 6-11 IP Server Settings

6.3.5 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.

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

Steps:

1. Enter the SNMP Settings interface:

Configuration > Advanced Configuration > Network > SNMP

TCP/IP
Port
DDNS
PPPoE
SNMP
FTP

SNMP v1/v2

Enable SNMP SNMPv1 ☐

Enable SNMP v2c ☐

Write SNMP Community

Read SNMP Community

Trap Address

Trap Port

Trap Community

SNMP v3

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

SNMP Port

Save

Figure 6-12 SNMP Settings

2. Check the corresponding version checkbox (Enable SNMP SNMPv1, Enable SNMP v2c, Enable SNMPv3) to enable the feature.
3. Configure the SNMP settings.
Note: The configuration of the SNMP software should be the same as the settings you configure here.
4. Click Save to save and finish the settings.

6.3.6 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 > Advanced Configuration > Network > FTP

The screenshot shows the 'FTP' configuration page. At the top, there are tabs for 'TCP/IP', 'Port', 'DDNS', 'PPPoE', 'SNMP', and 'FTP'. The 'FTP' tab is active. Below the tabs, there are several input fields and dropdown menus: 'Server Address' with the value '202.75.221.47', 'Port' with '21', 'User Name' with 'test', 'Password' and 'Confirm' both masked with dots, 'Directory Structure' with a dropdown set to 'Save in the child directory.', 'Parent Directory' with a dropdown set to 'Use Device Name', 'Child Directory' with a dropdown set to 'Use Camera Name', and 'Upload Type' with an unchecked checkbox labeled 'Upload Picture'. A 'Save' button is located at the bottom right of the form.

Figure 6-13 FTP Settings

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

- **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 6-14.

The screenshot shows a dropdown menu for the 'Parent Directory' field. The menu is open, displaying three options: 'Use Device Name' (which is highlighted in blue), 'Use Device Number', and 'Use Device IP address'.

Figure 6-14 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 6-15.

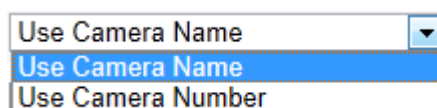



Figure 6-15 Child Directory

- **Upload type:** To enable uploading the captured picture to the FTP server.
3. Click  to save the settings.
- Note:** 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. For detailed information, please refer to the Section **6.6.8 Configuring Snapshot Settings**.

6.4 Configuring Video and Audio Settings

6.4.1 Configuring Video Settings

Steps:

1. Enter the Video Settings interface:

Configuration > Basic Configuration > Video / Audio > Video

Or Configuration > Advanced Configuration > Video / Audio > Video

 A screenshot of the 'Video Settings' configuration interface. At the top, there are two tabs: 'Video' (selected) and 'Audio'. Below the tabs, there is a form with the following fields:

- Stream Type: Main Stream(Normal) (dropdown)
- Video Type: Video&Audio (dropdown)
- Resolution: 704*576 (dropdown)
- Bitrate Type: Variable (dropdown)
- Video Quality: Medium (dropdown)
- Frame Rate: 25 (dropdown)
- Max. Bitrate: 2048 Kbps (text input)
- Video Encoding: H.264 (dropdown)
- I Frame Interval: 25 (text input)

 At the bottom right of the form, there is a 'Save' button.

Figure 6-16 Configure Video Settings

2. Select the **Stream Type** of the speed dome to main stream (normal) or sub-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 **6.1 Configuring Local Parameters** for switching the main stream and sub-stream for live viewing.

3. You can customize the following parameters for the selected main stream or sub-stream:

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 to 32~16384 Kbps. The higher value corresponds to the higher video quality, but the higher bandwidth is required.

Video Encoding:

The **Video Encoding** standard can be set to H.264 or MJPEG.

Profile:

You can set the profile level to **High Profile**, **Main Profile** or **Basic Profile**.

I Frame Interval:

Set the I-Frame interval from 1 to 400.

4. Click  to save the settings.

6.4.2 Configuring Audio Settings

Steps:

1. Enter the Audio Settings interface


Configuration > Basic Configuration > Video / Audio > Audio

Or Configuration > Advanced Configuration > Video / Audio > Audio



The screenshot displays the 'Audio' configuration tab. At the top, there are two tabs: 'Video' and 'Audio', with 'Audio' being the active tab. Below the tabs, the 'Audio Encoding' is set to 'G.711ulaw' via a dropdown menu.

Figure 6-17 Audio Settings

2. Configure the following settings.
Audio Encoding: G.711ulaw selectable.
3. Click  to save the settings.

6.5 Configuring Image Settings

6.5.1 Configuring Display Settings

Purpose:

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

Note: The parameters in **Display Settings** interface vary depending on the models of speed dome.

Steps:

1. Enter the Display Settings interface:
Configuration > Basic Configuration> Image> Display Settings
Or **Configuration > Advanced Configuration> Image> Display Settings**
2. Set the image parameters of the speed dome.

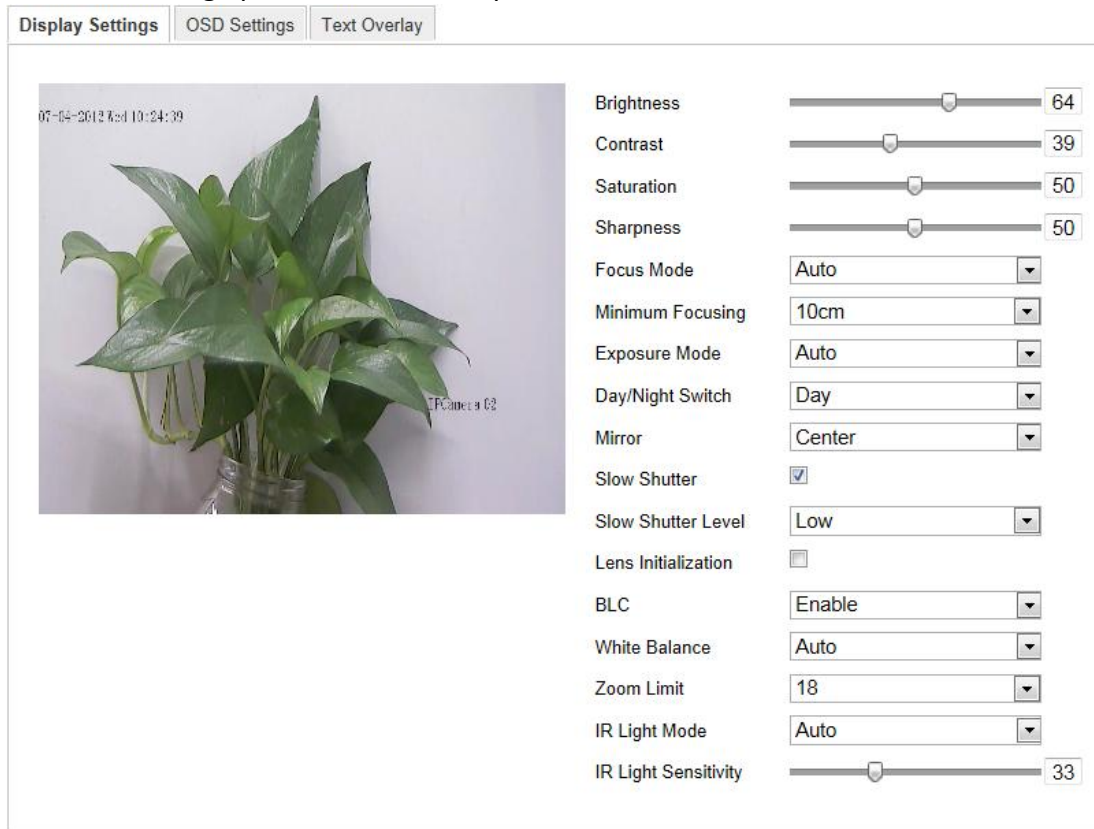


Figure 6-18 Display Settings

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.

Hue

Adjust this feature to change the color of the image. The value ranges from 0 to 100.

Note: This function varies depending on the models of speed dome.

Sharpness

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

Note: This function varies depending on the models of speed dome.

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.

Minimum Focusing

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

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

Exposure Mode

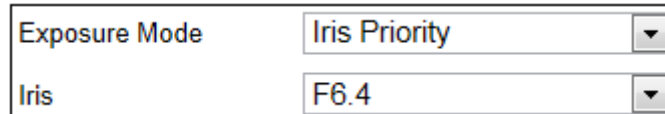
The **Exposure Mode** can be set to **Auto**, **Iris Priority**, **Shutter Priority**, **Manual**.

- **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.

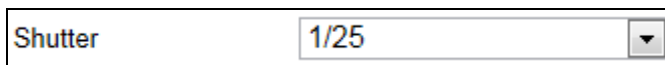


Exposure Mode	Iris Priority
Iris	F6.4

Figure 6-19 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.



Shutter	1/25
---------	------

Figure 6-20 Manual Shutter

- **Gain Priority:**

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



Gain	20
------	----

Figure 6-21 Manual Gain

- **Manual:**

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

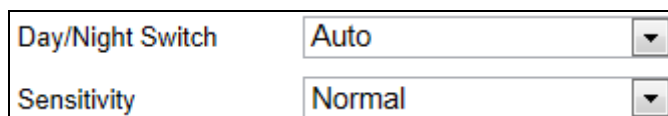
Note: This function varies depending on the models of speed dome.

Day/Night Switch

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

- **Auto:**

In **Auto** mode, the day mode and night mode can switch automatically according to the light condition of environment. The switching sensitivity can be set to **Low**, **Normal**, **High**.



Day/Night Switch	Auto
Sensitivity	Normal

Figure 6-22 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.

Note: This function varies depending on the models of speed dome.

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, LEFT/RIGHT, UP/DOWN or CENTER.

Note: This function varies depending on the models of speed dome.

Slow Shutter

This function can be used in underexposure condition. It lengthens the shutter time to ensure full exposure. The slow shutter value can be set to **Low**, **Normal** and **High**.

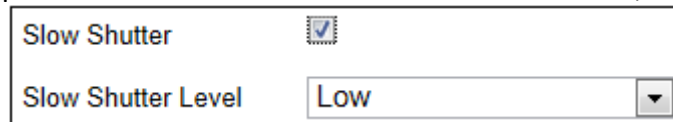


Figure 6-23 Slow Shutter

Note: This function varies depending on the models of speed dome.

Lens Initialization

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

WDR

The Wide Dynamic Range function combines a long time exposed image and a short time exposed image to get an image for both bright and dark areas to be visible. You can set **WDR** mode to **Close**, **Enable** or **Auto**.

Note: This function varies depending on the models of speed dome.

BLC

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.

White Balance

The **White Balance** mode can be set to **Auto**, **Manual White Balance**, **Auto Tracing**

and **Onepush**.

- **Auto:**

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

- **Manual White Balance:**

In **Manual** mode, you can adjust the color temperature manually to meet your own demand as shown in Figure 6-24.

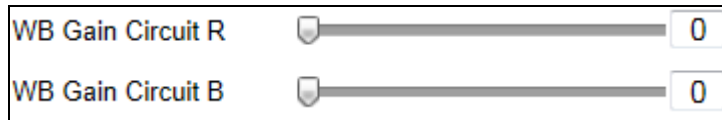


Figure 6-24 Manual White Balance

- **Auto Tracing:**

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

- **Onepush:**

Selecting **Onepush** mode, the viewed image retains color balance automatically according to the current color temperature.

Note: This function varies depending on the models of speed dome.

Zoom Limit

You can set **Zoom Limit** value to limit the maximum value of zooming. The value can be set to 18, 36, 72, 144 and 216.

Note: This function varies depending on the models of speed dome.

Exp Comp

You can adjust this value to increase the brightness of the image. The value ranges from 0 to 100.

Note: This function varies depending on the models of speed dome.

IR Light Mode

IR light mode can be set to **Auto** and **Manual**.

- **Auto:** The brightness of the infrared light will be adjusted automatically. **IR Light Sensitivity** value ranges from 0 to 100.

- **Manual:** you need to adjust the brightness value of infrared light manually. **IR Light Bright** value ranges from 0 to 100.

Note: For detailed parameters configuration of IR light, you can enter the OSD menu by calling the special preset 95.

6.5.2 Configuring OSD Settings

Purpose:

The speed dome supports following on screen displays:

Zoom: Identifies the amount of magnification.

Direction: Displays panning and tilting direction, with the format of PXXX TXXX. The XXX following P indicates the degrees in pan direction, while the XXX following T indicates the degrees in tilt position.

Time: Supports for time display.

Preset Title: Identifies preset being called.

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 > Advanced Configuration > Image > OSD Settings

Display Settings OSD Settings Text Overlay

06-26-2012 Tue 09:39:05
06-26-2012 Tuesday 09:39:09
IPDome2
IPDome2

☒ Display Name
☒ Display Date
☒ Display Week

Camera Name IPDome2
Time Format 24-hour
Date Format MM-DD-YYYY
Display Mode Not transparent & Not fl...


Save

Figure 6-25 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 drop-down list to set the time format, date format and display mode.
5. You can use the mouse to click and drag the text frame **IPDome2** in the live view window to adjust the OSD position.



Figure 6-26 Adjust OSD Location



6. Click  to activate above settings.

6.5.3 Configuring Text Overlay Settings

Purpose:

You can customize the text overlay.

Steps:

1. Enter the Text Overlay Settings interface:
Configuration > Advanced Configuration > Image > Text Overlay
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 .

Note: There are up to 4 text overlays configurable.

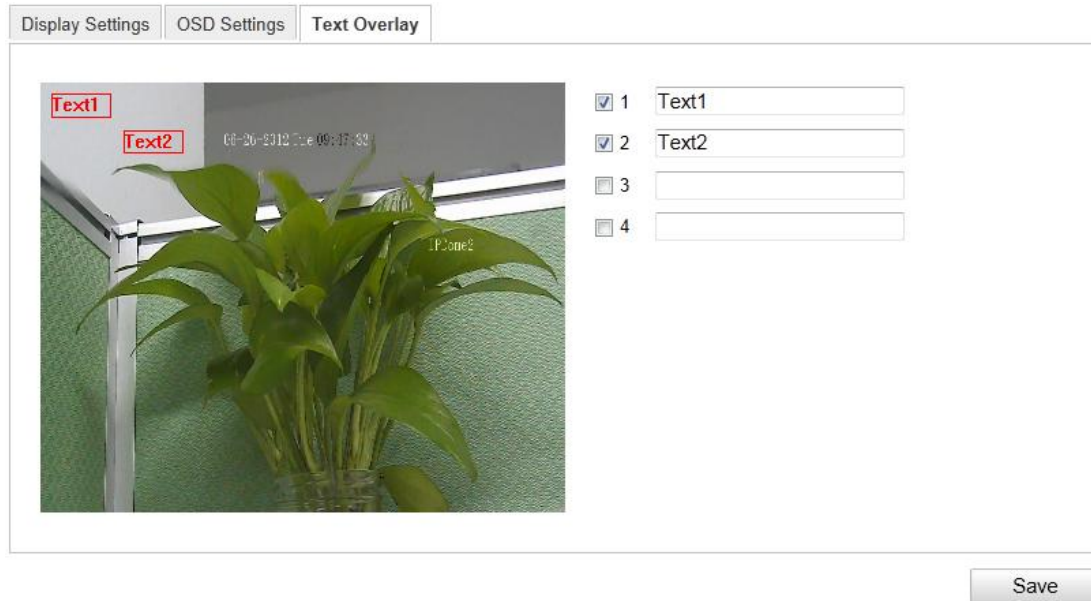


Figure 6-27 Text Overlay Settings

6.6 Configuring and Handling Alarms

Purpose:

This section explains how to configure the network speed dome to respond to alarm events, including motion detection, external alarm input, video loss, tamper-proof and exception. These events can trigger the alarm actions, such as Notify Surveillance Center, Send Email, Trigger Alarm Output, etc.

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

6.6.1 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. Set the Motion Detection Area.

Steps:

- (1) Enter the motion detection settings interface

Configuration > Advanced Configuration > Events > Motion Detection

- (2) Check the checkbox of **Enable Motion Detection**.

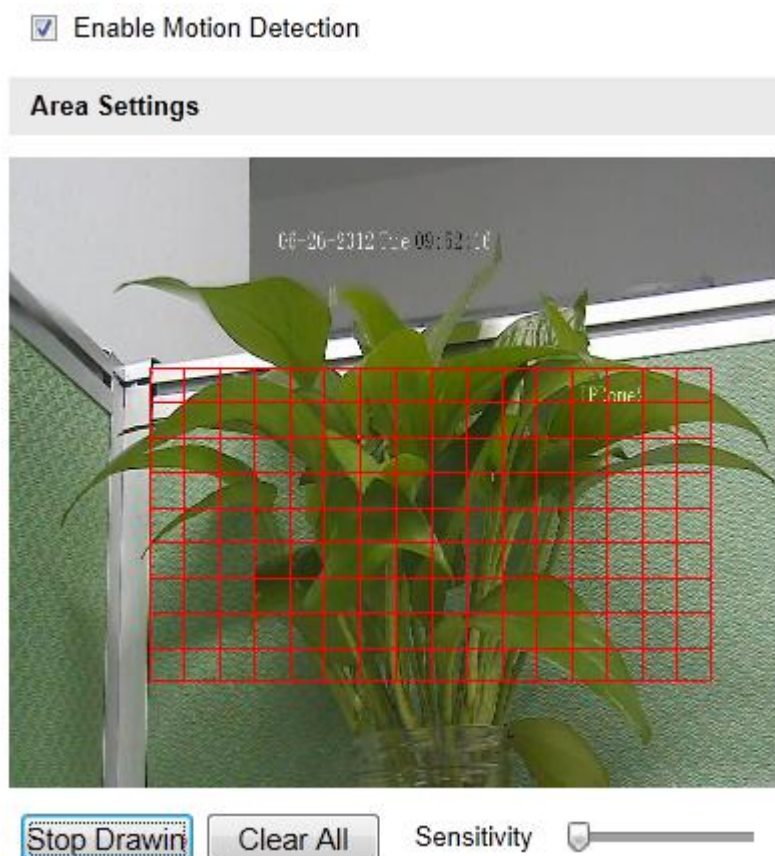


Figure 6-28 Enable Motion Detection

- (3) Click **Draw Area**. Click and drag the mouse on the live video image to draw a motion detection area.

Note: You can draw up to 8 motion detection areas on the same image.

- (4) Click **Stop Drawing** to finish drawing.

Note: You can click **Clear All** to clear all of the areas.

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

2. Set the Arming Schedule for Motion Detection.

Steps:

- (1) To edit the arming schedule as shown in Figure 6-30, click **Edit** in Figure 6-29.

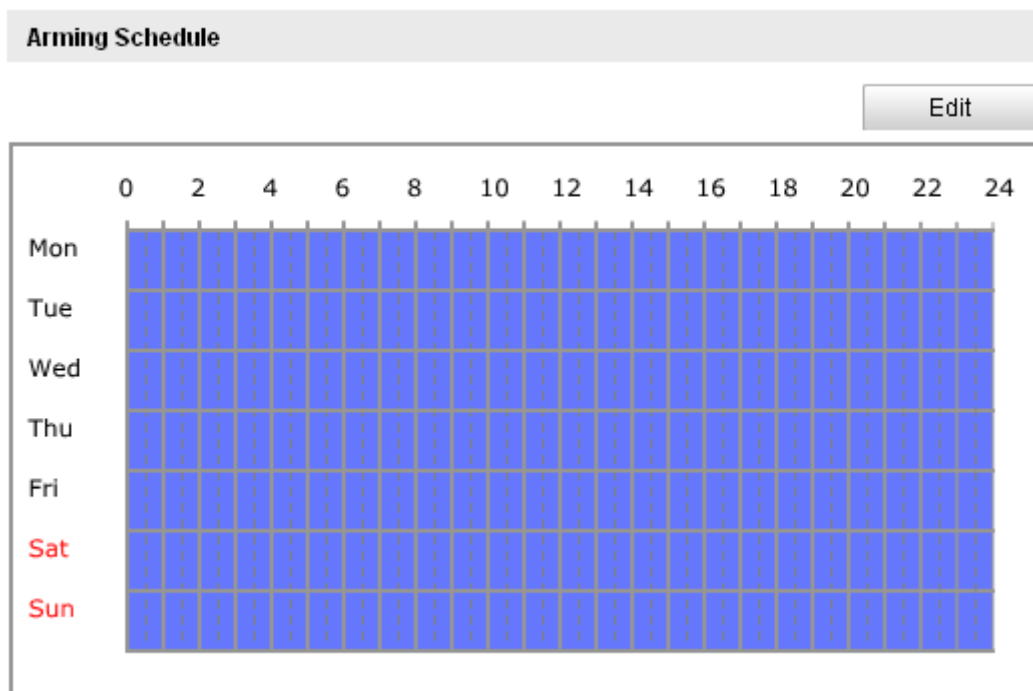

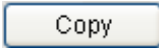


Figure 6-29 Arming Schedule

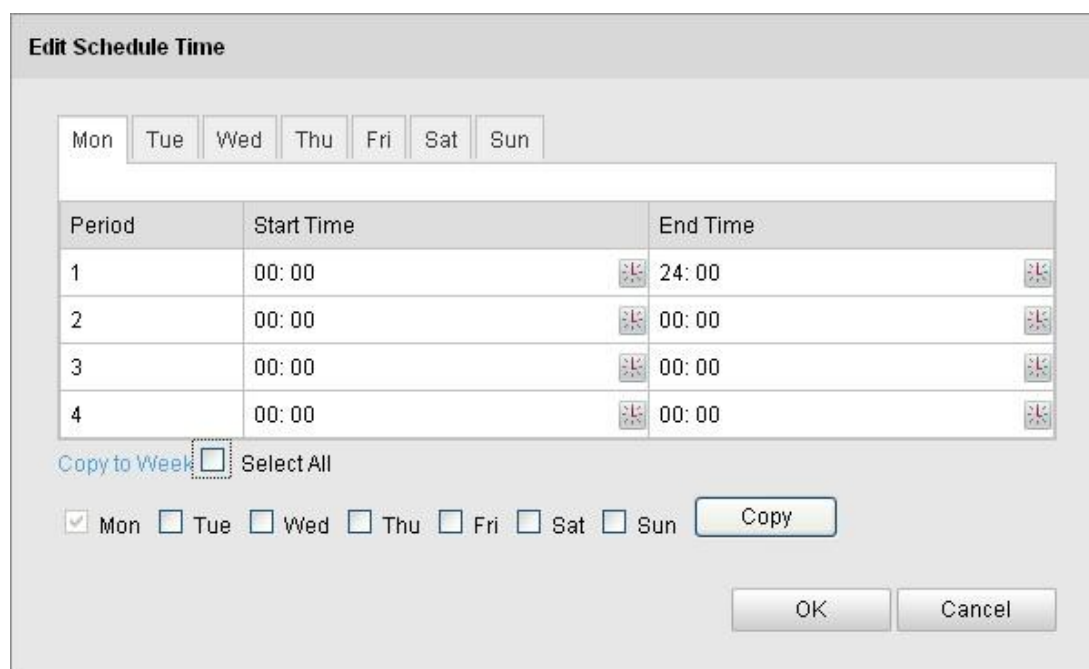
(2) Choose the day you want to set the arming schedule as shown in Figure 6-30.

(3) Click  to set the time period for the arming schedule.

(4) After you set the arming schedule, you can click  to copy the schedule to other days (Optional).

(5) Click  to save the settings.

Note: The time of each period can't be overlapped. Up to 4 periods can be configured for each day.



The 'Edit Schedule Time' dialog box features a header bar with the title. Below it is a row of seven tabs labeled 'Mon', 'Tue', 'Wed', 'Thu', 'Fri', 'Sat', and 'Sun'. The main area contains a table with three columns: 'Period', 'Start Time', and 'End Time'. The table has four rows, each with a period number (1-4) and time values (00:00 and 24:00). To the right of each time field is a small clock icon. Below the table, there is a 'Copy to Week' checkbox and a 'Select All' button. At the bottom, there is a row of seven checkboxes for each day of the week, with 'Mon' checked. To the right of these is a 'Copy' button. At the very bottom right are 'OK' and 'Cancel' buttons.

Period	Start Time	End Time
1	00:00	24:00
2	00:00	00:00
3	00:00	00:00
4	00:00	00:00

Copy to Week ☐ Select All

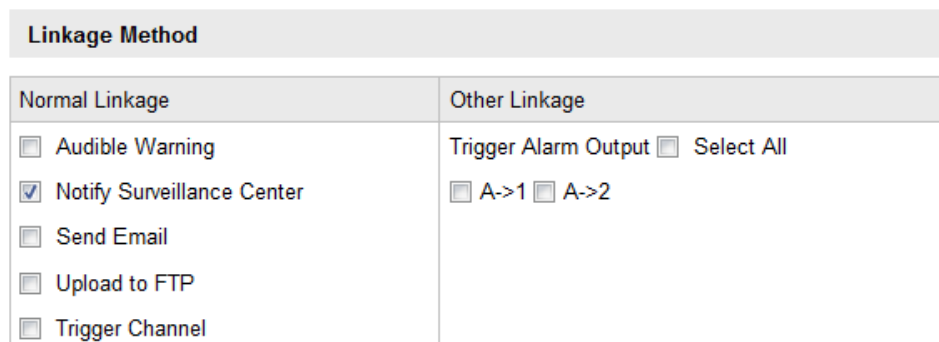
☒ Mon ☐ Tue ☐ Wed ☐ Thu ☐ Fri ☐ Sat ☐ Sun

Figure 6-30 Arming Time Schedule

3. Set the Alarm Actions for Motion Detection.

Purpose:

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



The 'Linkage Method' dialog box has a title bar. Below it is a table with two columns: 'Normal Linkage' and 'Other Linkage'. The 'Normal Linkage' column contains five checkboxes: 'Audible Warning', 'Notify Surveillance Center' (checked), 'Send Email', 'Upload to FTP', and 'Trigger Channel'. The 'Other Linkage' column contains a 'Trigger Alarm Output' checkbox, a 'Select All' button, and two checkboxes: 'A->1' and 'A->2'.

Normal Linkage	Other Linkage
<input type="checkbox"/> Audible Warning <input checked="" type="checkbox"/> Notify Surveillance Center <input type="checkbox"/> Send Email <input type="checkbox"/> Upload to FTP <input type="checkbox"/> Trigger Channel	Trigger Alarm Output <input type="checkbox"/> Select All <input type="checkbox"/> A->1 <input type="checkbox"/> A->2

Figure 6-31 Linkage Method

Check the checkbox to select the linkage method. Notify surveillance center, send email, upload to FTP, trigger channel and trigger alarm output 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.

Note: To send the Email when an event occurs, you need to refer to Section

6.6.7 Configuring Email Settings to set the Email parameters.

- **Upload to FTP**

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

Note: You need a FTP server and set FTP parameters first. Refer to Section **6.3.6 Configuring FTP Settings** for setting FTP parameters.

- **Trigger Channel**

Record a video when an event occurs.

Note: You have to set the recording schedule to realize this function. Please refer to Section **7.2 Configuring Recording Schedule** for settings the recording schedule.

- **Trigger Alarm Output**

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

Note: To trigger an alarm output when an event occurs, please refer to Section **6.6.5 Configuring Alarm Output** to set the alarm output parameters.

6.6.2 Configuring Tamper-proof Alarm

Purpose:

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

Steps:

1. Enter the Tamper-proof Settings interface:

Configuration > Advanced Configuration > Events > Tamper-proof

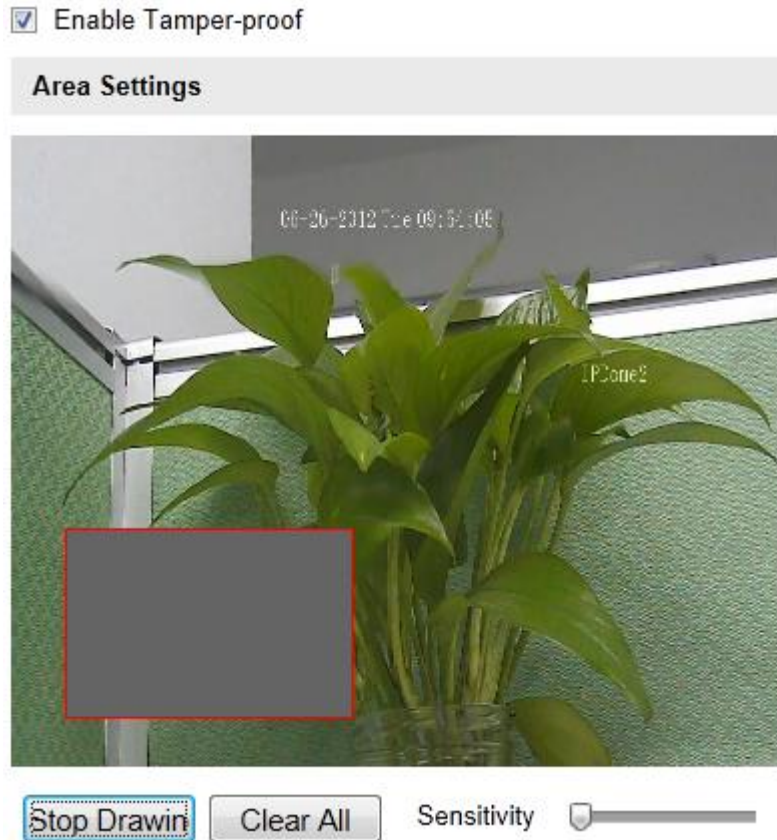


Figure 6-32 Tamper-proof Alarm

2. Check **Enable Tamper-proof** checkbox to enable the tamper-proof detection.
3. Set the tamper-proof area. Refer to *Step 1 Set the Motion Detection Area* in Section **6.6.1 Configuring Motion Detection**.
4. Click to edit the arming schedule for tamper-proof. The arming schedule configuration is the same as the setting of the arming schedule for motion detection. Refer to *Step 2 Set the Arming Schedule for Motion Detection* in Section **6.6.1 Configuring Motion Detection**.
5. Check the checkbox to select the linkage method taken for the tamper-proof. Notify surveillance center, send email and trigger alarm output are selectable. Please refer to *Step 3 Set the Alarm Actions for Motion Detection* in Section **6.6.1 Configuring Motion Detection**.
6. Click to save the settings.

6.6.3 Configuring External Alarm Input

Steps:

1. Enter the Alarm Input Settings interface:

Configuration > Advanced Configuration> Events > Alarm Input:

- Choose the alarm input No. and the Alarm Type. The alarm type can be NO (Normally Open) and NC (Normally Closed).
- Edit the name in to set a name for the alarm input (optional).

Alarm Input No.	<input type="text" value="A<-1"/>	<input type="button" value="v"/>
Alarm Name	<input type="text"/>	(cannot copy)
Alarm Type	<input type="text" value="NO"/>	<input type="button" value="v"/>
IP Address	<input type="text" value="Local"/>	




Arming Schedule

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

Figure 6-33 Alarm Input Settings

- Click to set the arming schedule for the alarm input. Refer to **Step 2 Set the Arming Schedule for Motion Detection** in Section **6.6.1 Configuring Motion Detection**.
- Check the checkbox to select the linkage method taken for the alarm input. Refer to **Step 3 Set the Alarm Actions for Motion Detection** in Section **6.6.1 Configuring Motion Detection**.
- 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.
- You can copy your settings to other alarm inputs.

8. Click  to save the settings.




Linkage Method	
Normal Linkage <input type="checkbox"/> Audible Warning <input type="checkbox"/> Notify Surveillance Center <input type="checkbox"/> Send Email <input type="checkbox"/> Upload to FTP <input type="checkbox"/> Trigger Channel	Other Linkage Trigger Alarm Output <input type="checkbox"/> Select All <input type="checkbox"/> A->1 <input type="checkbox"/> A->2 PTZ Linking <input type="checkbox"/> Preset No. <input type="text" value="1"/>  <input type="checkbox"/> Patrol No. <input type="text" value="1"/>  <input type="checkbox"/> Pattern <input type="text" value="1"/> 

Copy to Alarm
<input type="checkbox"/> Select All <input checked="" type="checkbox"/> A<-1 <input type="checkbox"/> A<-2

Figure 6-34 Linkage Method

6.6.4 Configuring Alarm Output

Steps:

- Enter the Alarm Output Settings interface:
Configuration>Advanced Configuration> Events > Alarm Output
- Select one alarm output channel in the **Alarm Output** drop-down list.
- Set a name in  for the alarm output (optional).
- 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.
- Click  to enter the **Edit Schedule Time** interface. The time schedule configuration is the same as the settings of the arming schedule for motion detection. Refer to *Step 2 Set the Arming Schedule for Motion Detection* in Section **6.6.1 Configuring Motion Detection**.
- You can copy the settings to other alarm outputs.
- Click  to save the settings.

Alarm Output	A->1	▼
Alarm Name	(cannot copy)	
Delay	5s	▼
IP Address	Local	
Default Status	High Level	▼
Triggering Status	Pulse	▼

Arming Schedule
Edit

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

Copy to Alarm

☐ Select All
☒ A->1 ☐ A->2

Figure 6-35 Alarm Output Settings

6.6.5 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 > Advanced Configuration > Events > Exception
2. Check the checkbox to set the actions taken for the Exception alarm. Refer to

Step 3 Set the Alarm Actions Taken for Motion Detection in Section **6.6.1 Configuring Motion Detection**.

Exception Type		HDD Full	▼
Normal Linkage		Other Linkage	
<input type="checkbox"/> Audible Warning <input type="checkbox"/> Notify Surveillance Center <input type="checkbox"/> Send Email		Trigger Alarm Output <input type="checkbox"/> Select All <input type="checkbox"/> A->1 <input type="checkbox"/> A->2	

Figure 6-36 Exception Settings

- Click  to save the settings.

6.6.6 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, tamper-proof, etc.

Before you start:

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

Steps:

- Enter the Email Settings interface:
Configuration > Advanced Configuration > Events > Email

Sender

Sender

Sender's Address

SMTP Server

SMTP Port

☐ Enable SSL

Interval ☐ Attached Image

☐ Authentication

User Name

Password

Confirm

Receiver

Receiver1

Receiver1's Address

Receiver2

Receiver2's Address

Save

Figure 6-37 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.

Enable SSL: Check the checkbox to enable SSL if it is required by the SMTP server.

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.

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.

3. Click  to save the settings.

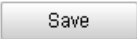
6.6.7 Configuring Snapshot Settings

Purpose:

You can configure the scheduled snapshot and event-triggered snapshot. You can upload the captured pictures to a FTP server.

Basic Settings

Steps:

1. Enter the Snapshot Settings interface:
Configuration > Advanced Configuration > Events > Snapshot
2. Check the **Enable Timing Snapshot** checkbox to enable continuous snapshot. Check the **Enable Event-triggered Snapshot** checkbox to check event-triggered snapshot.
3. Select the quality of the snapshot.
4. Set the time interval between two snapshots.
5. Click  to save the settings.


Uploading to FTP

Note: 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 **6.3.6 Configuring FTP Settings** for more details to configure FTP parameters.
 - 2) Check the **Enable Timing Snapshot** checkbox.
- 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 **6.3.6 Configuring FTP Settings** for more details to configure FTP parameters.
- 2) Check  Upload to FTP checkbox in Motion Detection Settings or Alarm Input interface. Please refer to *Step 3 Set the Alarm Actions Taken for Motion Detection* in Section **6.6.1 Configuring Motion Detection**, or *Step 4 Configuring External Alarm Input* in Section **6.6.1 Configuring Motion Detection**.
- 3) Check the **Enable Event-triggered Snapshot** checkbox.

Timing	
<input checked="" type="checkbox"/> Enable Timing Snapshot	
Format	JPEG
Resolution	704*576
Quality	High
Interval	0
	millisecond

Event-Triggered	
<input checked="" type="checkbox"/> Enable Event-Triggered Snapshot	
Format	JPEG
Resolution	704*576
Quality	High
Interval	0
	millisecond

Figure 6-38 Snapshot Settings

Chapter 7 Record Settings

Before you start:

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

7.1 Configuring NAS Settings

Before you start:

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

Steps:

1. Add the network disk

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

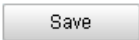
Configuration > Advanced Configuration > Storage > NAS

HDD No.	Type	Server Address	File Path
1	NAS	10.99.105.249	/dvr/test
2	NAS		
3	NAS		
4	NAS		

Figure 7-1 Add Network Disk

- (2) Enter the IP address of the network disk, and the default format of file path is */dvr/share* as shown in Figure 7-1.

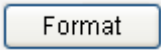
Note: The network disk file path name *share* is user-defined while creating the DVR network storage. Please refer to the *User Manual of NAS* for creating the file path.

- (3) Click  to add the network disk.

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

2. Initialize the added network disk.

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

- (2) If the status of the disk is **Uninitialized** as shown in Figure 7-2, check the corresponding checkbox to select the disk and click  to start initializing the disk.

HDD Device List							Format
<input checked="" type="checkbox"/>	HDD No.	Capacity	Free space	Status	Type	Property	Progress
<input checked="" type="checkbox"/>	9	0.96GB	0.00GB	Uninitialized	NAS	R/W	

Figure 7-2 Initialize Disk

HDD Device List							Format
<input checked="" type="checkbox"/>	HDD No.	Capacity	Free space	Status	Type	Property	Progress
<input checked="" type="checkbox"/>	9	39.06GB	0.00GB	Uninitialized	NAS	R/W	7%

Figure 7-3 Initializing

When the initialization completed, the status of disk will become **Normal** as shown in Figure 7-4.

HDD Device List							Format
<input type="checkbox"/>	HDD No.	Capacity	Free space	Status	Type	Property	Progress
<input type="checkbox"/>	9	39.06GB	38.75GB	Normal	NAS	R/W	

Figure 7-4 View Disk Status

Notes:

- Up to 1 NAS disks can be connected to the speed dome.
- To initialize and use the SD card after insert it to the speed dome, please refer to the steps of NAS disk initialization.

7.2 Configuring Recording Schedule

Purpose:

There are two kinds of recording for the speed domes: manual recording and scheduled recording. For the manual recording, refer to Section **4.4 Recording and Capturing Pictures Manually**. 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 SD card (if supported) or in the network disk.

Steps:

1. Enter the Record Schedule Settings interface:
Configuration > Advanced Configuration > Storage > Record Schedule

Pre-record 5s

Post-record 5s

Redundant Record No

Record Audio Yes

Expired Time 30

☒ Enable Record Schedule

Edit

Figure 7-5 Recording Schedule Interface

2. Check the checkbox of **Enable Record Schedule** to enable scheduled recording.
3. Set the record parameters of the speed dome.

Pre-record 5s

Post-record 5s

Figure 7-6 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.

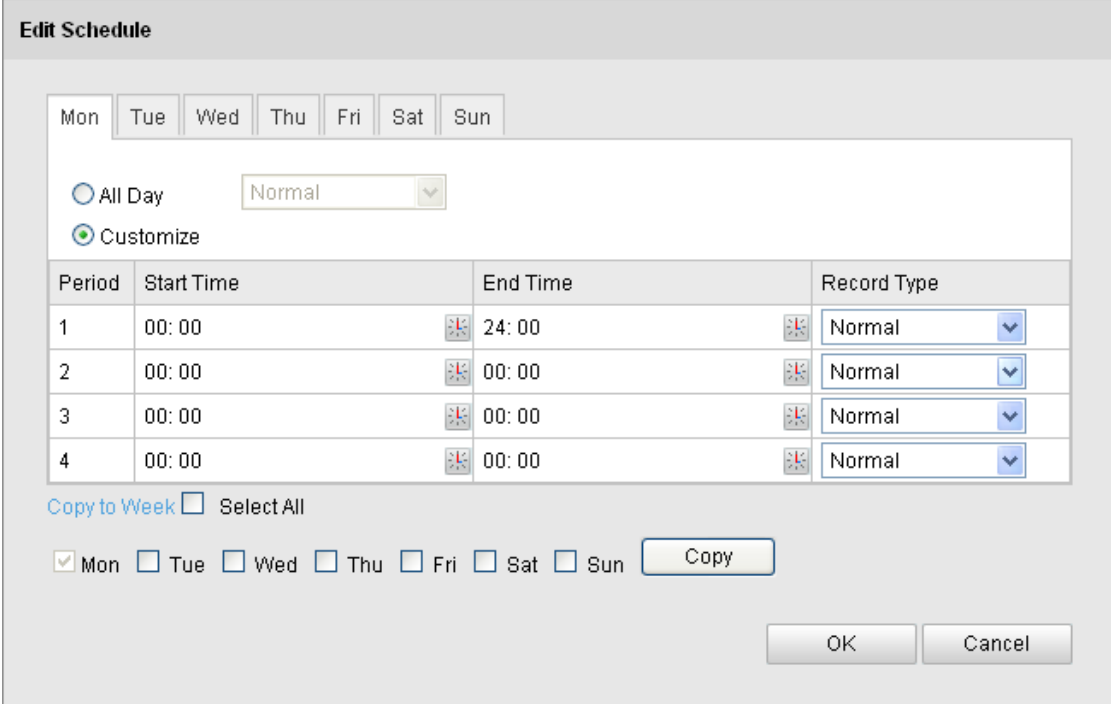
Note: The pre-record time changes according to the video bitrate.

- **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.

Note: The Pre-record and Post-record parameters vary depending on the speed

dome model.

4. Click  to edit the record schedule.



Edit Schedule


Mon Tue Wed Thu Fri Sat Sun

☐ All Day

☒ Customize

Period	Start Time	End Time	Record Type
1	00:00	24:00	Normal
2	00:00	00:00	Normal
3	00:00	00:00	Normal
4	00:00	00:00	Normal

Copy to Week ☐ Select All

☒ Mon ☐ Tue ☐ Wed ☐ Thu ☐ Fri ☐ Sat ☐ Sun 

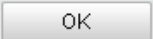
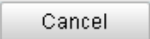
 

Figure 7-7 Record Schedule

5. Choose the day to set the record schedule.

(1) Set all-day record or segment record:

- ◆ If you want to configure the all-day recording, please check the **All Day** checkbox.
- ◆ If you want to record in different time sections, check the **Customize** checkbox. Set the **Start Time** and **End Time**.

Note: The time of each segment can't be overlapped. Up to 4 segments can be configured.

(2) Select a **Record Type**. The record type can be Normal, Motion Detection, Alarm, Motion | Alarm, Motion & Alarm.

◆ **Normal**

If you select **Normal**, the video will be recorded automatically according to the time of the schedule.

◆ **Record Triggered by Motion Detection**

If you select **Motion Detection**, 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 the **Step 1 Set the Motion Detection Area** in the Section

6.6.1 Configuring 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 6.6.4 *Configuring External 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. Please refer to Section 6.6.1 and Section 6.6.4 for detailed information.

◆ 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. Please refer to Section 6.6.1 and Section 6.6.4 for detailed information.

Edit Schedule

Mon Tue Wed Thu Fri Sat Sun

☐ All Day

☒ Customize

Period	Start Time	End Time	Record Type
1	00:00	24:00	Normal
2	00:00	00:00	Normal
3	06:00	00:00	Normal
4	00:00	00:00	Normal

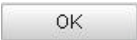
Copy to Week ☒ Select All

☒ Mon ☒ Tue ☒ Wed ☒ Thu ☒ Fri ☒ Sat ☒ Sun

Figure 7-8 Edit Record Schedule

- (3) Check the checkbox ☐ Select All and click to copy settings of this day to the whole week. You can also check any of the checkboxes before the

date and click .

(4) Click  to save the settings and exit the **Edit Record Schedule** interface.

6. Click  to save the settings.

Chapter 8 Playback

Purpose:

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

Task 1: To play back the video files

Steps:

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

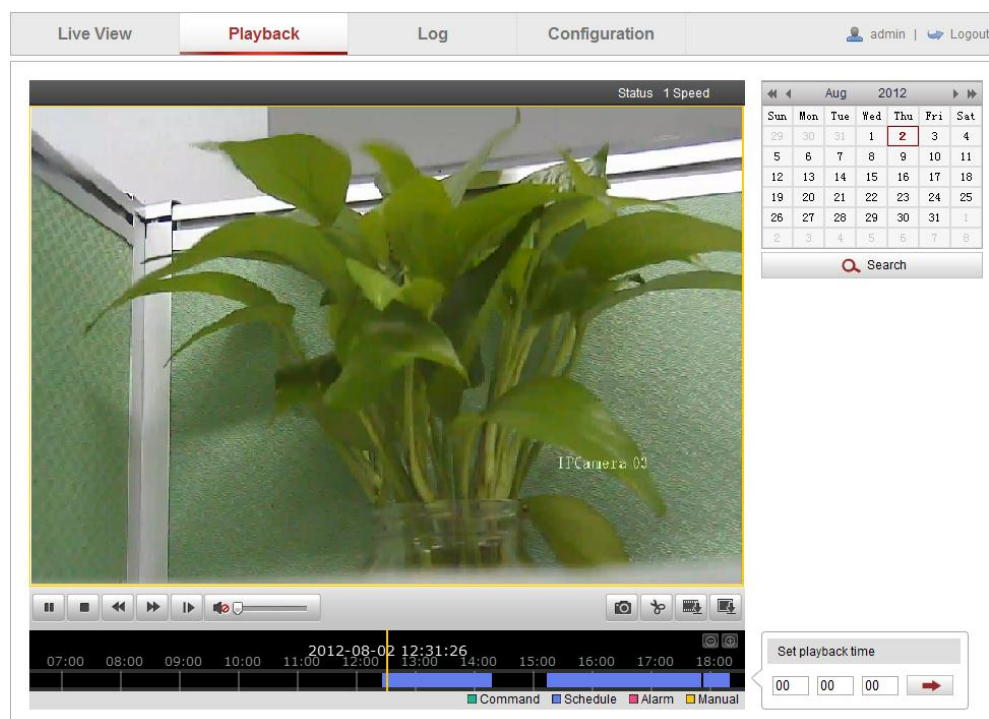



Figure 8-1 Playback Interface

2. Select the date and click .

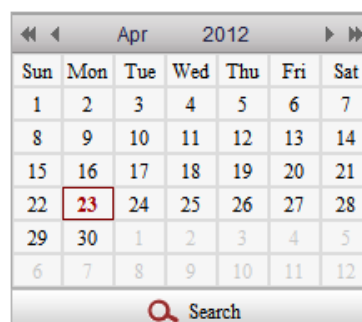



Figure 8-2 Search Video













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 8-3 Playback Toolbar

Table 8-1 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 video files
	Speed up		Download captured pictures
	Display playback status		Playback by frame

Note: You can choose the file paths locally for downloaded playback video files and pictures in Local Configuration interface. Please refer to Section **6.1 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.

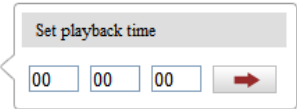


Figure 8-4 Set Playback Time

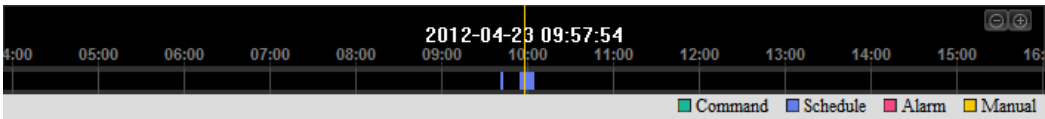


Figure 8-5 Progress Bar

The different colors of the video on the progress bar stand for the different video

types as shown in Figure 8-6.

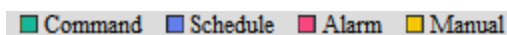



Figure 8-6 Video Types

Task 2: To download the video files

Steps:

1. Click  on the playback interface. The pop-up menu is shown in Figure 8-7. All the video files are listed.

<input type="checkbox"/>	No.	File Name	Start Time	End Time	File Size	Progress
<input type="checkbox"/>	1	ch01_0800000000000000	2012-08-14 10:12:31	2012-08-14 10:30:29	43 MB	
<input type="checkbox"/>	2	ch01_08000000000000100	2012-08-14 10:33:00	2012-08-14 10:43:50	27 MB	
<input type="checkbox"/>	3	ch01_08000000000000200	2012-08-14 10:45:08	2012-08-14 10:56:20	28 MB	
<input type="checkbox"/>	4	ch01_08000000000000301	2012-08-14 11:10:45	2012-08-14 11:11:01	1 MB	
<input type="checkbox"/>	5	ch01_08000000000000401	2012-08-14 11:11:09	2012-08-14 11:11:17	1 MB	
<input type="checkbox"/>	6	ch01_08000000000000501	2012-08-14 11:12:13	2012-08-14 11:12:21	1 MB	
<input type="checkbox"/>	7	ch01_08000000000000601	2012-08-14 11:13:43	2012-08-14 11:14:28	3 MB	
<input type="checkbox"/>	8	ch01_08000000000000701	2012-08-14 11:15:14	2012-08-14 11:15:30	1 MB	
<input type="checkbox"/>	9	ch01_08000000000000801	2012-08-14 11:15:35	2012-08-14 11:16:24	2 MB	
<input type="checkbox"/>	10	ch01_08000000000000901	2012-08-14 11:17:09	2012-08-14 11:17:33	1 MB	
<input type="checkbox"/>	11	ch01_08000000000001001	2012-08-14 11:17:47	2012-08-14 11:18:03	1 MB	
<input type="checkbox"/>	12	ch01_08000000000001101	2012-08-14 11:20:39	2012-08-14 11:21:03	1 MB	
<input type="checkbox"/>	13	ch01_08000000000001201	2012-08-14 11:24:38	2012-08-14 11:24:54	1 MB	
<input type="checkbox"/>	14	ch01_08000000000001301	2012-08-14 11:25:52	2012-08-14 11:26:01	1 MB	
<input type="checkbox"/>	15	ch01_08000000000001401	2012-08-14 11:27:37	2012-08-14 11:27:54	1 MB	
<input type="checkbox"/>	16	ch01_08000000000001501	2012-08-14 11:28:36	2012-08-14 11:28:44	1 MB	
<input type="checkbox"/>	17	ch01_08000000000001601	2012-08-14 11:28:50	2012-08-14 11:28:58	1 MB	
<input type="checkbox"/>	18	ch01_08000000000001701	2012-08-14 11:29:16	2012-08-14 11:29:32	1 MB	
<input type="checkbox"/>	19	ch01_08000000000001801	2012-08-14 11:34:38	2012-08-14 11:34:54	1 MB	
<input type="checkbox"/>	20	ch01_08000000000001901	2012-08-14 11:42:15	2012-08-14 11:42:24	1 MB	



[Download](#)

Total 32 Items [First Page](#) [Prev Page](#) 1/2 [Next Page](#) [Last Page](#)

Figure 8-7 Video Downloading interface

2. Check the checkbox ☒ in front of the video files that you need to download.
3. Click [Download](#) to download the video files.

Notes:

- The progress ratio  displays the downloading ratio of the video file.
- You can click  to stop the downloading.
- The total number [Total 32 Items](#) displays the amount of the video files.
- The video files are not all listed on one page. You can click

First Page Prev Page 1/2 Next Page Last Page to turn pages.

Chapter 9 Log Searching

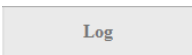
Purpose:

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 SD card in the speed dome.

Steps:

1. Click  on the menu bar to enter log searching interface.

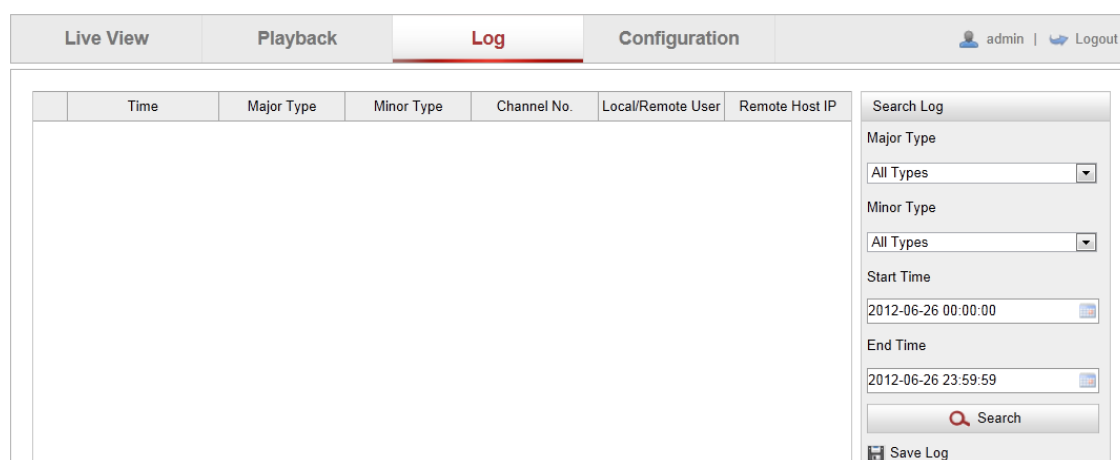



Figure 9-1 Log Searching Interface

2. Set the log search conditions to specify the search, including the Major Type, Minor Type, Start Time and End Time as shown in Figure 9-2.
3. Click  to search log files. The matched log files will be displayed on the **Log** interface.

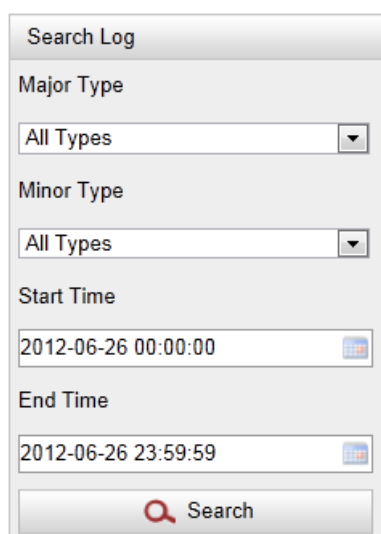



Figure 9-2 Log Searching

4. To export the log files, click  to save the log files in your computer.

Chapter 10 Others

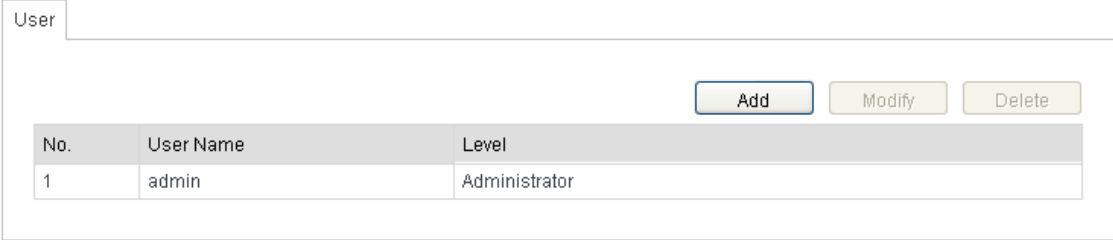
10.1 Managing User Accounts

Enter the User Management interface:

Configuration > Basic Configuration > Security > User

Or **Configuration > Advanced Configuration > Security > User**

The **admin** user has access to create, modify or delete other accounts. Up to 15 user accounts can be created.





The screenshot shows a web interface for user management. At the top, there is a tab labeled 'User'. Below the tab, there are three buttons: 'Add', 'Modify', and 'Delete'. Below these buttons is a table with three columns: 'No.', 'User Name', and 'Level'. The table contains one row with the following data: '1', 'admin', and 'Administrator'.

No.	User Name	Level
1	admin	Administrator

Figure 10-1 User Information

● Add a User

Steps:

1. Click  to add a user.
 2. Input the new **User Name**, select **Level** and input **Password**.
- Note:** The level indicates the permissions you give to the user. You can define the user as **Operator** or **User**.
3. In the **Basic Permission** field and **Camera Configuration** field, you can check or uncheck the permissions for the new user.
 4. Click  to finish the user addition.

Add user

User Name

Level

Password

Confirm

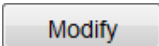

Basic Permission	Camera Configuration
<input type="checkbox"/> Remote: Parameters Settings	<input checked="" type="checkbox"/> Remote: Live View
<input checked="" type="checkbox"/> Remote: Log Search / Interrogate Working Status	<input checked="" type="checkbox"/> Remote: PTZ Control
<input type="checkbox"/> Remote: Upgrade / Format	<input checked="" type="checkbox"/> Remote: Manual Record
<input checked="" type="checkbox"/> Remote: Two-way Audio	<input checked="" type="checkbox"/> Remote: Playback
<input type="checkbox"/> Remote: Shutdown / Reboot	
<input type="checkbox"/> Remote: Notify Surveillance Center / Trigger Alarm Output	
<input type="checkbox"/> Remote: Video Output Control	
<input type="checkbox"/> Remote: Serial Port Control	

OK Cancel

Figure 10-2 Add a User

- Modify a User

Steps:

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

Modify user

User Name: tes2

Level: Operator

Password: •••••

Confirm: •••••


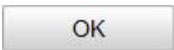
Basic Permission	Camera Configuration
<input type="checkbox"/> Remote: Parameters Settings	<input checked="" type="checkbox"/> Remote: Live View
<input checked="" type="checkbox"/> Remote: Log Search / Interrogate Working Status	<input checked="" type="checkbox"/> Remote: PTZ Control
<input type="checkbox"/> Remote: Upgrade / Format	<input checked="" type="checkbox"/> Remote: Manual Record
<input checked="" type="checkbox"/> Remote: Two-way Audio	<input checked="" type="checkbox"/> Remote: Playback
<input type="checkbox"/> Remote: Shutdown / Reboot	
<input type="checkbox"/> Remote: Notify Surveillance Center / Trigger Alarm Output	
<input type="checkbox"/> Remote: Video Output Control	
<input type="checkbox"/> Remote: Serial Port Control	

OK Cancel

Figure 10-3 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.

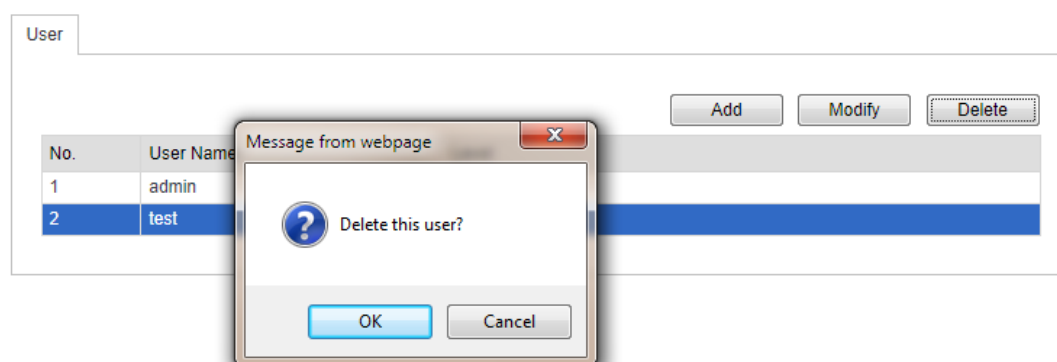


Figure 10-4 Delete a User

10.2 Configuring RTSP Authentication

Purpose:

You can specifically secure the stream data of live view.


Steps:

1. Enter the RTSP Authentication interface:

Configuration > Advanced Configuration > Security > RTSP Authentication



Figure 10-5 RTSP Authentication

2. Select the **Authentication** type **basic** or **disable** in the drop-down list to enable or disable the RTSP authentication.
3. Click  to save the settings.

10.3 Viewing Device Information

Enter the Device Information interface:

Configuration > Basic Configuration > System > Device Information

Or **Configuration > Advanced Configuration > System > Device Information**

In the **Device Information** interface, you can edit the Device Name.

Other information of the network speed dome, such as Model, Serial No., Firmware Version, Encoding 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 Information
Time Settings
Maintenance

Basic Information

Device Name

Model	DS-2DM1-000
Serial No.	DS-2DM1-0020020120903BCWR201209005WCU
Firmware Version	V3.1.2 build 121101
Encoding Version	V4.0 build 101018
Number of Channels	1
Number of HDDs	0
Number of Alarm Input	2
Number of Alarm Output	2

Save

Figure 10-6 Device Information

10.4 Maintenance

10.4.1 Rebooting the Speed Dome

Steps:

- Enter the Maintenance interface:
Configuration > Basic Configuration> System > Maintenance
Or Configuration > Advanced Configuration> System > Maintenance:
- Click to reboot the network speed dome.

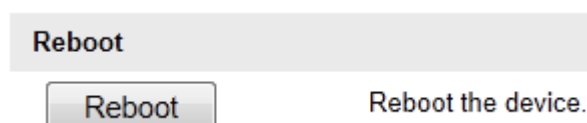
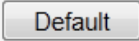


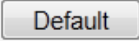
Figure 10-7 Reboot the Device

10.4.2 Restoring Default Settings

Steps:

- Enter the Maintenance interface:
Configuration > Basic Configuration> System > Maintenance
Or Configuration > Advanced Configuration> System > Maintenance

2. Click  or  to restore the default settings.

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

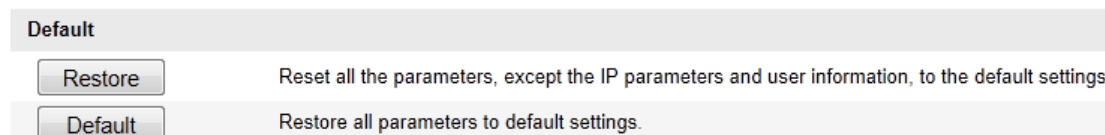
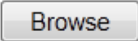




Figure 10-8 Restore Default Settings

10.4.3 Importing/Exporting Configuration File

Steps:

- Enter the Maintenance interface:
Configuration > Basic Configuration > System > Maintenance
Or **Configuration > Advanced Configuration > System > Maintenance**
- Click  to select the local configuration file and then click  to start importing configuration file.
Note: You need to reboot the speed dome after importing configuration file.
- Click  and set the saving path to save the configuration file in local storage.

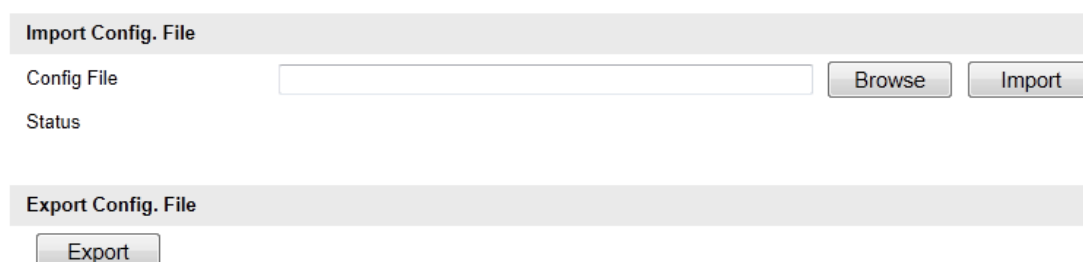
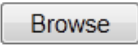
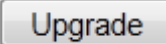


Figure 10-9 Import/Export Configuration File

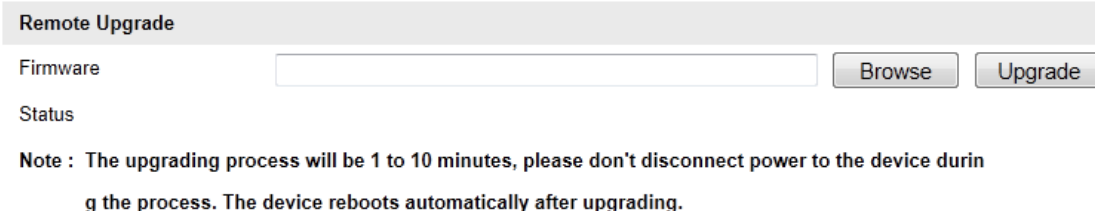
10.4.4 Upgrading the System

Steps:

- Enter the Maintenance interface:
Configuration > Basic Configuration > System > Maintenance
Or **Configuration > Advanced Configuration > System > Maintenance**

2. Click  to select the local upgrade file and then click  to start remote upgrade.

Note: 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.



The image shows a web interface for remote upgrading. It has a title bar 'Remote Upgrade'. Below it, there is a label 'Firmware' followed by a text input field. To the right of the input field are two buttons: 'Browse' and 'Upgrade'. Below the input field is a label 'Status'. At the bottom, there is a note: 'Note : The upgrading process will be 1 to 10 minutes, please don't disconnect power to the device during the process. The device reboots automatically after upgrading.'

Figure 10-10 Remote Upgrade

Appendix

Appendix 1 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.

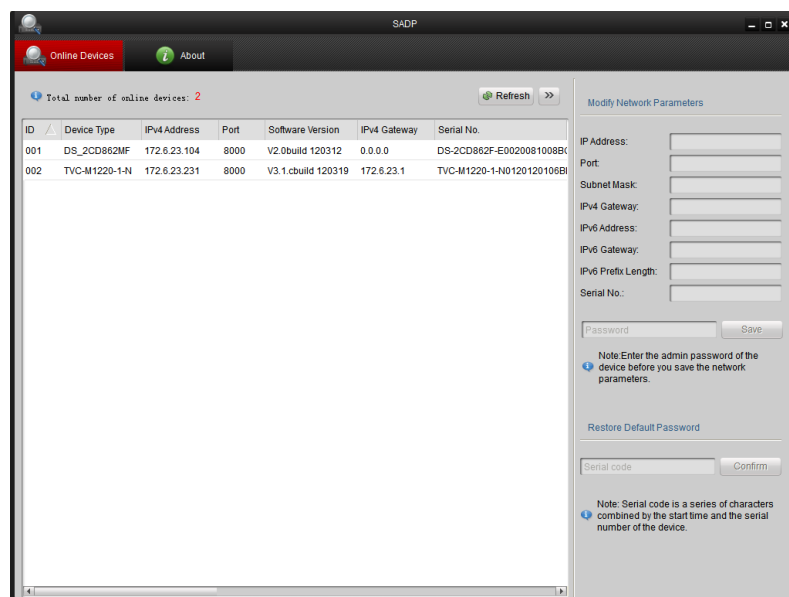
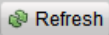






Figure A.1.1 Searching Online Devices

Note: 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

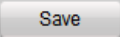
You can also click  to refresh the online device list manually. The newly searched devices will be added to the list.

Note: 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.

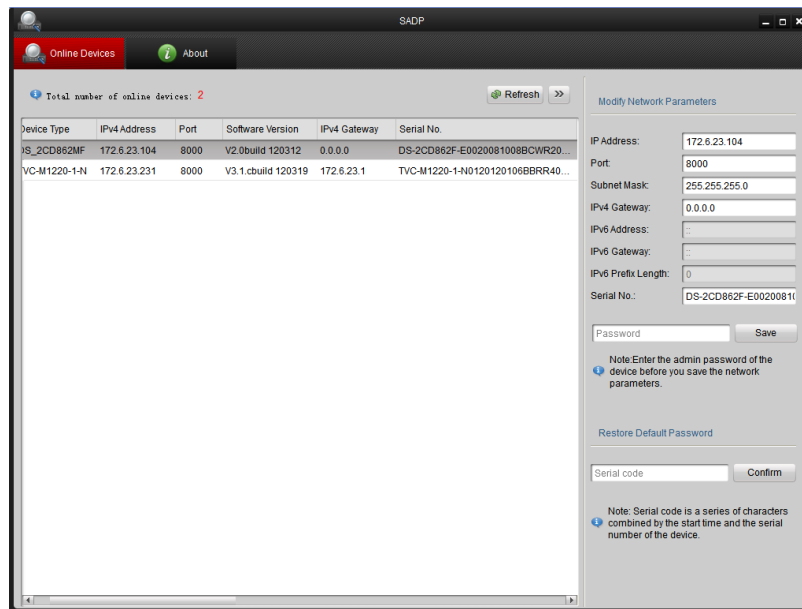
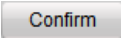


Figure A.1.2 Modify Network Parameters

● Restore default password

Steps:

1. Contact our technical engineers to get the serial code.
Note: Serial code is a series of characters combined by the start time and the serial number of the device.
2. Input the code in the **Serial code** field and click  to restore the default password.

Appendix 2 Port Mapping

The following settings are for TP-LINK router (TL-R410). The settings vary depending on different models of routers.

Steps:

1. Select the **WAN Connection Type**, as shown below:

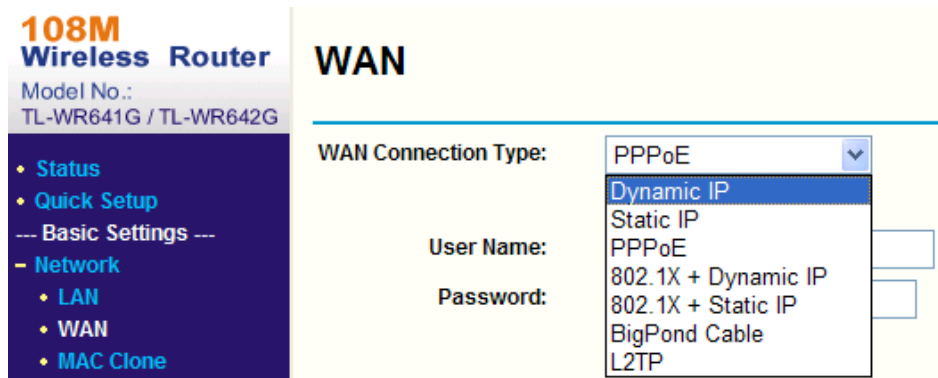


Figure A.2.1 Select the WAN Connection Type

2. Set the **LAN** parameters of the router as in the following figure, including IP address and subnet mask settings.

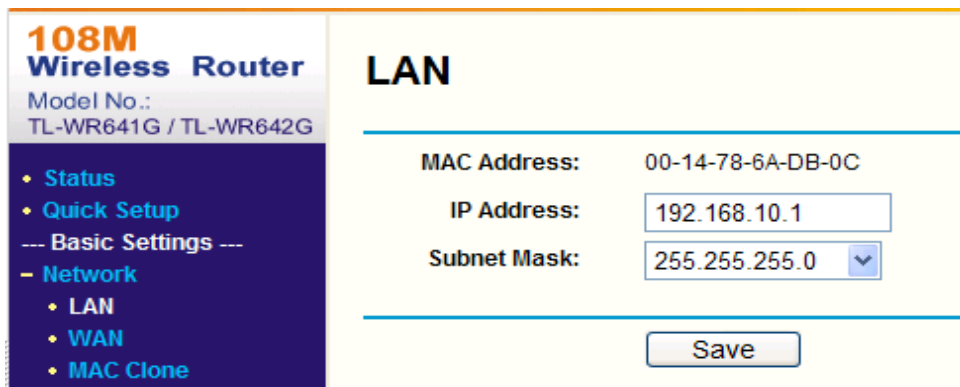


Figure A.2.2 Set the LAN parameters

3. Set the port mapping in the virtual servers of **Forwarding**. You need to forward ports 80, 8000, 8200~8210 and 554 for a speed dome.

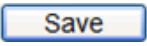
Notes:

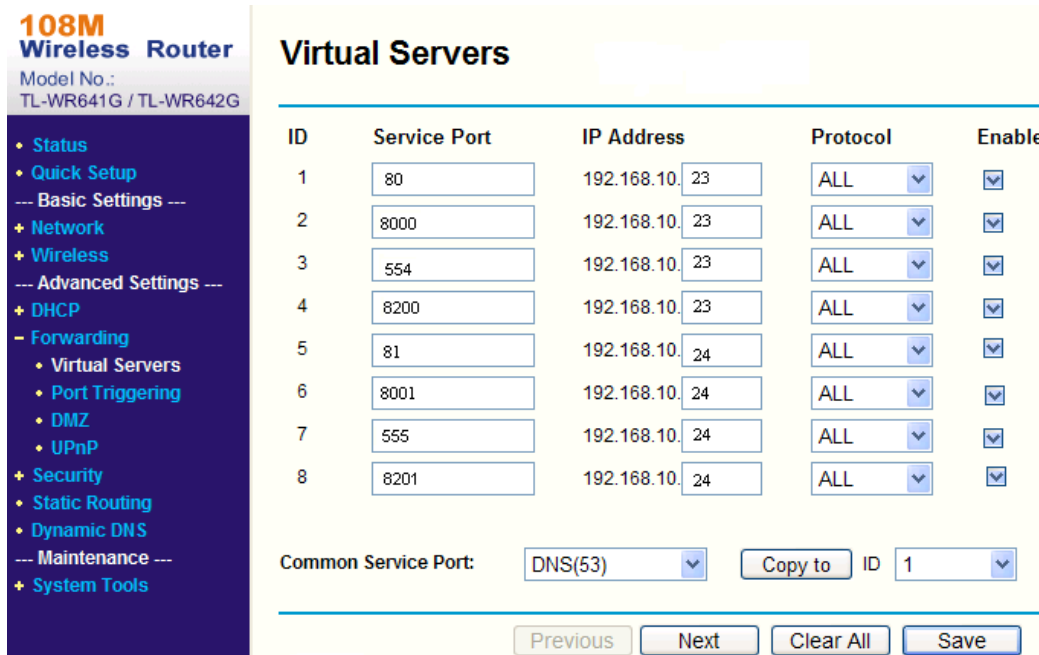
- You can change 80, 8000 and 554 ports value in the speed dome with web browser or client software.
- In the speed dome, the 8200~8210 ports change with the 8000 port with a constant value of 200. E.g. if the 8000 port is changed to 8005, then the 8200~8210 ports should be changed to 8205~8215.

Example:

When the speed domes are connected to the same router, you can forward the ports of a speed dome as 80, 8000, 8200~8210 and 554 with IP address 192.168.1.23, and the ports of another speed dome as 81, 8001, 8201~8211 and 555 with IP 192.168.1.24. Refer to the steps as below:

Steps:

1. As the settings mentioned above, forward the port 80, 8000, 8200~8210 and 554 for the network speed dome at 192.168.1.23
2. Forward the port 81, 8001, 8201~8211 and 555 for the network speed dome at 192.168.1.24.
3. Enable **ALL** or **TCP** protocols.
4. Check the **Enable** checkbox and click .



108M Wireless Router
Model No.: TL-WR641G / TL-WR642G

- Status
- Quick Setup
- Basic Settings ---
- Network
- Wireless
- Advanced Settings ---
- DHCP
- Forwarding
 - Virtual Servers
 - Port Triggering
 - DMZ
 - UPnP
- Security
- Static Routing
- Dynamic DNS
- Maintenance ---
- System Tools

Virtual Servers

ID	Service Port	IP Address	Protocol	Enable
1	80	192.168.10.23	ALL	<input checked="" type="checkbox"/>
2	8000	192.168.10.23	ALL	<input checked="" type="checkbox"/>
3	554	192.168.10.23	ALL	<input checked="" type="checkbox"/>
4	8200	192.168.10.23	ALL	<input checked="" type="checkbox"/>
5	81	192.168.10.24	ALL	<input checked="" type="checkbox"/>
6	8001	192.168.10.24	ALL	<input checked="" type="checkbox"/>
7	555	192.168.10.24	ALL	<input checked="" type="checkbox"/>
8	8201	192.168.10.24	ALL	<input checked="" type="checkbox"/>

Common Service Port: DNS(53) ID 1

Figure A.2.3 Port Mapping

Note: The port of the network speed dome cannot conflict with other ports. For example, some web management port of the router is 80. Change the speed dome port if it is the same as the management port.

First Choice for Security Professionals