

ALL-CAM2398-EP ALL-CAM2398v2-EP

1,3MP Outdoor PTZ IP-Cam

2MP Outdoor PTZ IP-Cam



User Manual

Default-IP

via DHCP

Username:

admin

Password:

Has to be configured manually at the first login.

DISCLAIMER STATEMENT

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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.

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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, the RoHS Directive 2011/65/EU.



2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new

equipment, or dispose of it at designated collection points. For more information see: www.recyclethis.info.



2006/66/EC (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol,

which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: www.recyclethis.info.

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.

A	<u>^</u>
Warnings Follow these safeguards to prevent serious injury or death.	Cautions Follow these precautions to prevent potential injury or material damage.



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



Cautions:

- Make sure the power supply voltage is correct before using the product.
- Do not drop the product or subject it to physical shock. Do not install the product on vibratory surface or places.
- Do not expose it to high electromagnetic radiating environment.
- Do not aim the lens at the strong light such as sun or incandescent lamp. The strong light can cause fatal damage to the product.
- The sensor may be burned out by a laser beam, so when any laser equipment is being used, make sure that the surface of the sensor not be exposed to the laser beam.
- For working temperature, please refer to the specification manual for details.
- To avoid heat accumulation, good ventilation is required for a proper operating environment.
- While shipping, the product should be packed in its original packing.
- Please use the provided glove when open up the product cover. Do not touch the product cover with fingers directly, because the acidic sweat of the fingers may erode the surface coating of the product cover.
- Please use a soft and dry cloth when clean inside and outside surfaces of the product cover. Do not use alkaline detergents.
- Improper use or replacement of the battery may result in hazard of explosion. Please use the manufacturer recommended battery type.

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Chapter 1 Overview

1.1 System Requirement

System requirement of web browser accessing is as follows:

Operating System: Microsoft Windows XP SP1 and above version / Vista /

Win7 / Server 2003 / Server 2008 32bits **CPU:** Intel Pentium IV 3.0 GHz or higher

RAM: 1G or higher

Display: 1024×768 resolution or higher

Web Browser: Internet Explorer 7.0 and above version, Apple Safari 5.02

and above version, Mozilla Firefox 5 and above version and Google

Chrome8 and above versions.

1.2 Functions



NOTE The functions vary depending on the models of speed dome.

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.

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 flips 180 degrees in horizontal direction to maintain continuity of tracking. This function can also be realized by auto mirror image depending on different camera models.

Privacy Mask

This function allows you to block or mask certain area of a scene, for preventing the personal privacy from recording or live viewing. A masked

area will move with pan and tilt functions and automatically adjust in size as the lens zooms telephoto and wide.

3D Positioning

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

• 3D Digital Noise Reduction

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

Chapter 2 Network Connection

Before you start:

- If you want to set the network speed dome via a LAN (Local Area Network), please refer to Section 2.1 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 client software to search and change the IP of the network speed dome.



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.

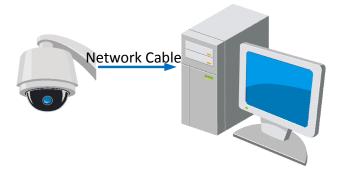


Figure 2-1 Connecting Directly

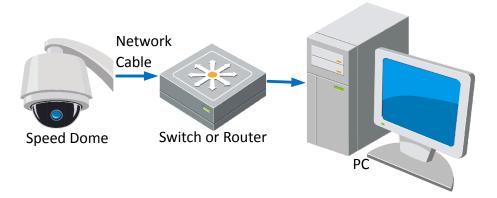


Figure 2-2 Connecting via a Switch or a Router

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.





- The default user name is admin, and password is manually configured.
- 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.

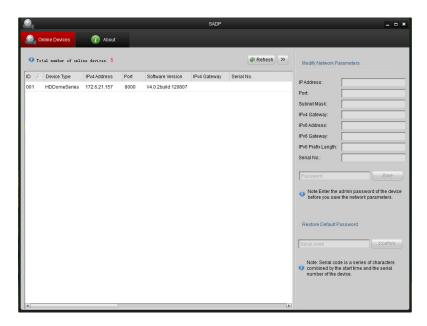


Figure 2-3 SADP Interface

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.

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.

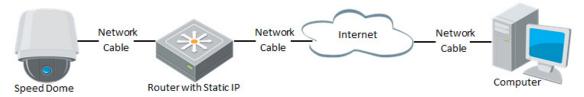


Figure 2-4 Accessing the Speed Dome through Router with Static IP



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.

- 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.

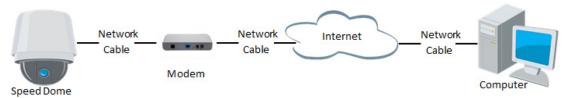


Figure 2-6 Accessing the Speed Dome with Dynamic IP

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

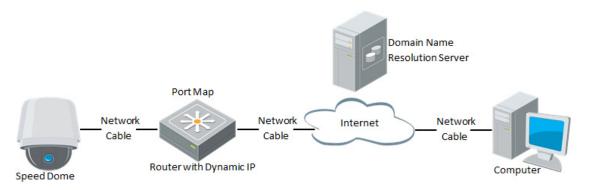


Figure 2-7 Normal Domain Name Resolution

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

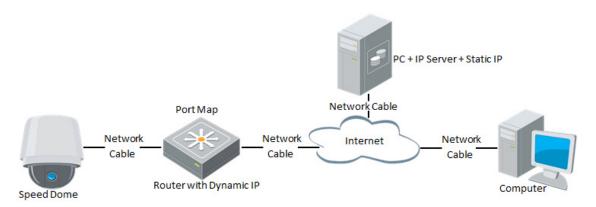


Figure 2-8 Private Domain Name Resolution

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, and press the **Enter** key to enter the login interface.
- 3. Select English as the interface language on the top-right of login interface.
- 4. Input the user name and password and click Login

The default user name is admin and the password has to be configured at the first log in.

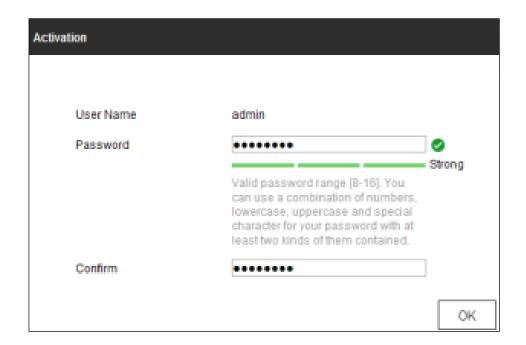




Figure 3-1 Login Interface

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

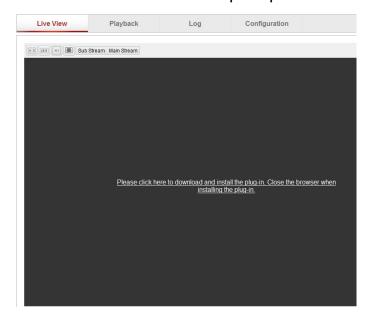


Figure 3-2 Download and Install Plug-in

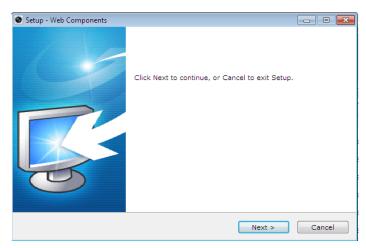


Figure 3-3 Install Plug-in (2)

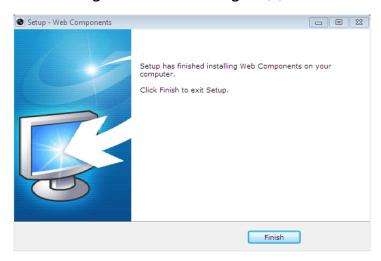


Figure 3-4 Install Plug-in (3)



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

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

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



Figure 3-5 ALL-VMS Control Panel

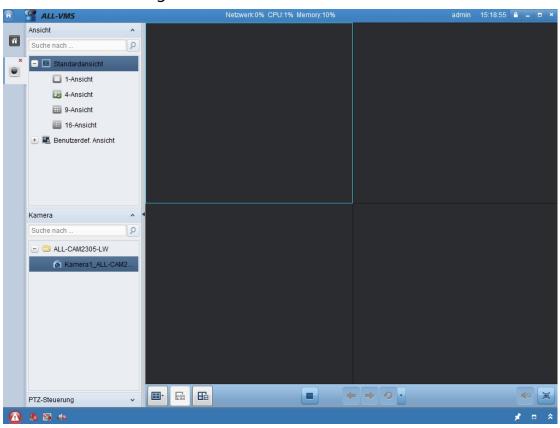


Figure 3-6 ALL-VMS Live View Interface



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

Chapter 4 Live View

4.1 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

Live View

on the menu bar of the main page to enter the live view page.

Descriptions of the live view page:



Figure 4-1 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.

4.2 Starting Live View

In the live view window as shown in Figure 4-2, click on the toolbar to start the live view of the speed dome.



Figure 4-2 Start Live View

Table 4-1 Descriptions of the Toolbar

Icon	Description	Icon	Description
	Live view on	•	Live view off
0	Manually capture the		
渔	Manual recording off	=	Manual recording on
•	Audio on and adjust volume	•	Mute
•	Two-way audio off	•	Two-way audio on
Q 30	3D zoom		

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.

3D Positioning: Steps:

- 1. Click on the tool bar 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.



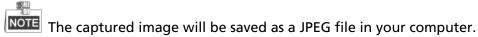
Please refer to the following sections for more information:

- 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.

4.3 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**.



4.4 Operating PTZ Control

Purpose:

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

4.4.1 PTZ Control Panel

On the live view page, click to show the PTZ control panel or click to hide it.

Click the direction buttons to control the pan/tilt movements. Click the zoom/iris/focus buttons to realize lens control.



Figure 4-3 PTZ Control Panel

Table 4-2 Descriptions of PTZ Control Panel

Button	Description	
* ##	Zoom in/out	
0 0	Focus near/far	
0 0	Iris Open/Close	
	Adjust speed of pan/tilt movements	

4.4.2 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.

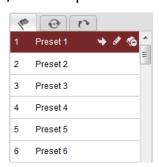


Figure 4-4 Setting a Preset

- 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.

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- Zoom in or out.
- Refocus the lens.
- 3. Click do to finish the setting of the current preset.
- 4. You can click to delete the preset.
 - You can configure up to 256 presets.



Calling a Preset:

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

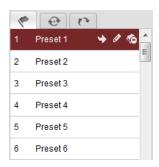


Figure 4-5 Calling a Preset

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

Steps:

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



The following presets are predefined with special commands. You can only call them but not configure them. For instance, preset 99 is the "Start auto scan". If you call the preset 99, the speed dome starts auto scan function.

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	96	Stop a scan	
36	Call patrol 2	97	Start random scan	
37	Call patrol 3	98	Start frame scan	
38	Call patrol 4	99	Start auto scan	

39	IR cut filter in	100	Start tilt scan
40	IR cut filter out	101	Start panorama scan
41	Call pattern 1	102	Call patrol 5
42	Call pattern 2	103	Call patrol 6
43	Call pattern 3	104	Call patrol 7
44	Call pattern 4	105	Call patrol 8
45	One-touch patrol	106	Fan On
92	Start to set limit stops	107	Fan Off
		108	Fan On By Temperature
			Control



Figure 4-6 Special Preset

When you calling preset 45 (one-touch patrol), the speed dome patrols from the preset 1 to 32. Before you enable this function, please set the preset 1 to 32 first.

4.4.3 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 Path 01
- 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 ok to save a preset into the patrol.
- 6. Repeat the steps from 3 to 5 to add more presets.
- 7. Click do to save all the patrol settings.



• Calling a Patrol:

In the PTZ control panel, select a defined patrol from Path 01 and click to call the patrol as shown in Figure 4-8.



Figure 4-8 Calling a Preset

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• Buttons on the Patrols interface:

Buttons	Description	
=	Save a patrol	
	Call a patrol	
	Stop a patrol	
3	Enter the adding interface of preset	
1	Modify a preset	
8	Delete a preset	
©	Delete all the presets in one patrol	

4.4.4 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 does nable 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 MENORY(%)** is displayed on the screen.
 - Pan the speed dome to the right or left.
 - Tilt the speed dome up or down.
 - Zoom in or out.

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



• Buttons on the Patterns interface:

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



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

4.5 Configuring Live View Parameters

• Main stream/Sub-stream:

You can select Main Stream or Sub Stream 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

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:

Enter the Initial Position Configuration interface:
 Configuration > Advanced Configuration > PTZ > Initial Position

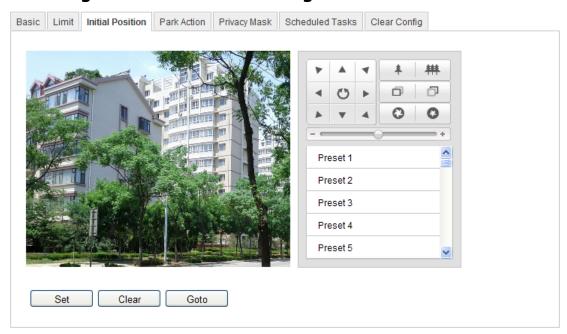


Figure 5-1 PTZ Configuration

- 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 Goto 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, etc.

1. Enter the Basic PTZ Parameter Configuration interface:

Configuration > Advanced Configuration > PTZ > Basic

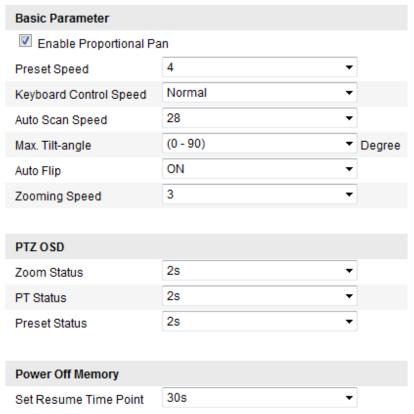


Figure 5-2 Basic PTZ Configuration Interface

- 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 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.
- ♦ Max. Tilt-angle: The Max. angle that the speed dome can revolve in the tilt direction is adjustable. The values are (0-90), (-1-90), (-2-90), (-3-90), (-4-90) and (-5-90).

The angle range varies depending on the models of speed dome.

- ♦ Auto Flip: You can enable/disable the auto flip function.
- **♦ Zooming Speed:** The speed of zooming is adjustable.
- PTZ OSD: Set the on-screen display duration of the PTZ status.
 - ♦ **Zoom Status:** Set the OSD duration of zooming status as 2 seconds, 5 seconds, 10 seconds, Always Close or Always Open.
 - ♦ **PT Status:** Set the azimuth angle display duration while panning and tilting as 2 seconds, 5 seconds, 10 seconds, Always Close or Always Open.
 - Preset Status: Set the preset name display duration while calling the preset as 2 seconds, 5 seconds, 10 seconds, Always Close or Always Open.
- Power-off Memory: The 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 Save 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

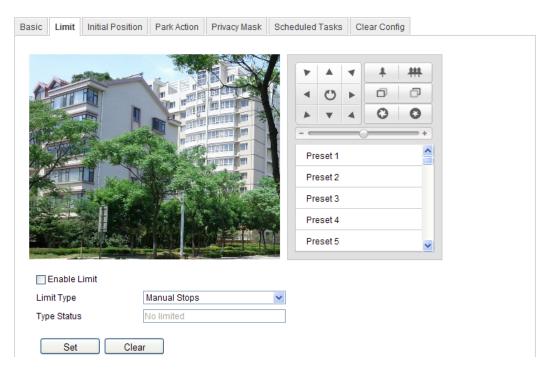


Figure 5-3 Configure the PTZ Limit

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

Manual Stops:

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

Scan Stops:

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

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

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



5.4 Configuring Scheduled Tasks

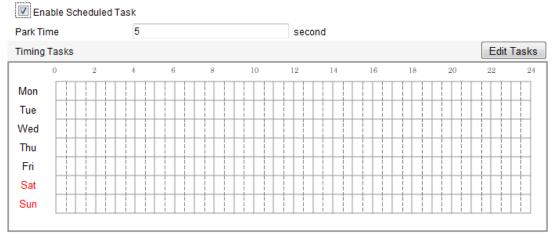
Purpose:

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

Steps:

1. Enter the Scheduled Task Settings interface:

Configuration> Advanced Configuration> PTZ > Scheduled Tasks



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

Figure 5-4 Configure Scheduled Tasks

- 2. Check the checkbox of **Enable Scheduled Task**.
- 3. Set the **Park Time**. You can set the park time (a period of inactivity) before the dome starts the scheduled tasks.
- 4. Set the schedule and task details.

Steps:

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

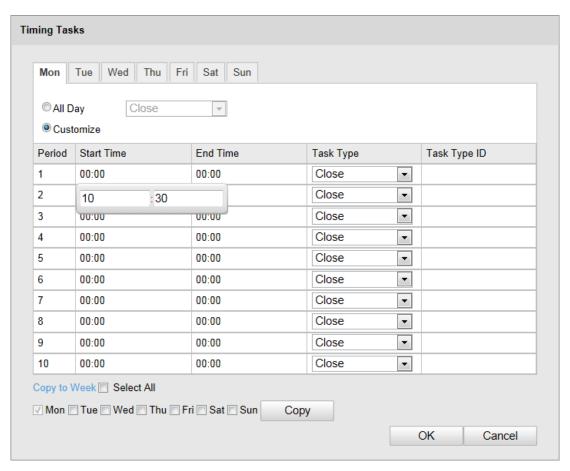


Figure 5-5 Edit the Schedule and Task Type

- (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.

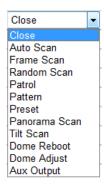


Figure 5-6 Task Types

- (5) After you set the scheduled task, you can copy the task to other days (Optional).
- (6) Click to save the settings.

© ALLNET GmbH Computersysteme 2015 – All rights reserved Errors and omissions excepted The time of each task can't be overlapped. Up to 10 tasks can be configured for each day.

5. Click 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).

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

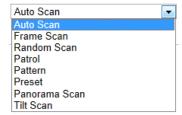


Figure 5-8 Action Types

5. Click 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:

1. Enter the Privacy Mask Settings interface:

Configuration > Advanced Configuration> PTZ > Privacy Mask

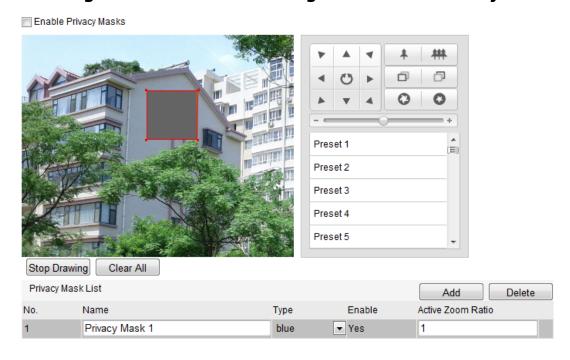


Figure 5-9 Draw the Privacy Mask

- 2. Click the PTZ control buttons to find the area you want to set the privacy mask.
- 3. Click Draw Area; click and drag the mouse in the live video window to draw the area.
- 4. You can drag the corners of the red rectangle area to draw a polygon mask.
- 5. Click Stop Drawing to finish drawing or click Clear All to clear all of the areas you set without saving them.
- 6. Click Add to save the privacy mask, and it will be listed in the © ALLNET GmbH Computersysteme 2015 All rights reserved Errors and omissions excepted

Privacy Mask List area; you can select a mask and click delete it from the list.

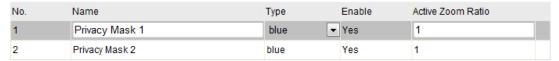


Figure 5-10 Privacy Mask List

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



You are allowed to draw up to 2 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:

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



Chapter 6 Speed Dome Configuration

6.1 Configuring Local Parameters

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

Steps:

1. Enter the Local Configuration interface:

Configuration > Local Configuration

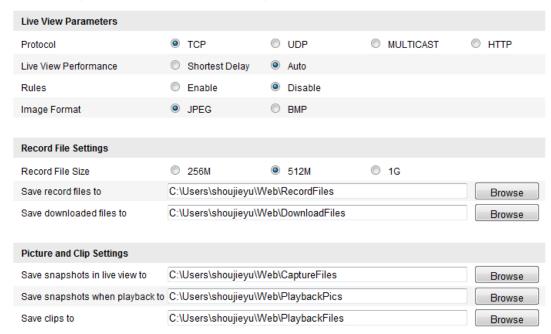


Figure 6-1 Local Configuration Interface

- 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**.

♦ **Live View Performance:** Set the live view performance to Shortest Delay, or Auto.

Please set Live View Performance as Best Fluency for the high frame rate speed dome.

- ♦ **Rules:** You can enable or disable the rules of dynamic analysis for motion here.
- ♦ **Image Format:** The captured pictures can be saved as different format. JPEG and BMP are available.
- Record File Settings: Set the saving path of the video files.
 - ♦ **Record File Size:** Select the packed size of manually recorded and downloaded video files. The size can be set to 256M, 512M or 1G.
 - ♦ **Save record files to:** Set the saving path for the manually recorded video files.
 - ♦ Save downloaded files to: Set the saving path for the downloaded video files in Playback 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 Live View interface.
 - ♦ Save snapshots when playback to: Set the saving path of the captured pictures in Playback interface.
 - ♦ Save clips to: Set the saving path of the clipped video files in

interface.

You can click Browse to change the directory for saving video files, clips and pictures.

3. Click Save 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

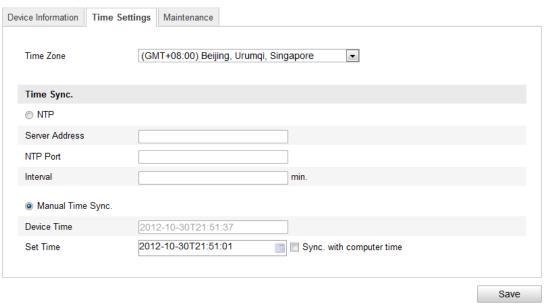


Figure 6-2 Time Settings

Configuring Time Synchronization by NTP Server Steps:

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

Server Address: IP address of NTP server.

NTP Port: Port of NTP server.

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

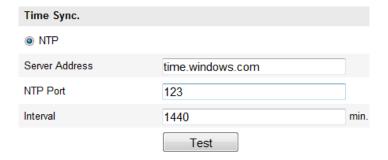


Figure 6-3 Time Sync by NTP Server

© ALLNET GmbH Computersysteme 2015 – All rights reserved Errors and omissions excepted You can click **Test** to make sure that the NTP server is connected.

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



Configuring Time Synchronization Manually Steps:

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

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

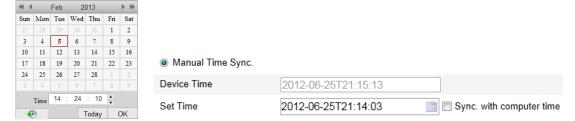


Figure 6-4 Time Sync Manually



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.

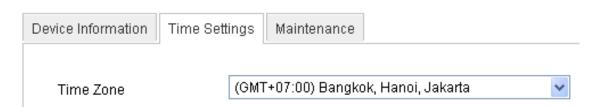


Figure 6-5 Time Zone Settings

Configuring Daylight Saving Time (summer time)Purpose:

If there is the habit of adjusting clocks forward in your country in certain time period of a year, you can turn this function on. The time will be adjusted automatically when the Daylight Saving Time(DST) comes.

Steps:

- (1) Enter the **DST** interface by **Configuration > Advanced Configuration > System > DST**
- (2) Check Enable DST to enable the DST function.
- (3) Set the date of the DST period.
- (4) Click save the settings.

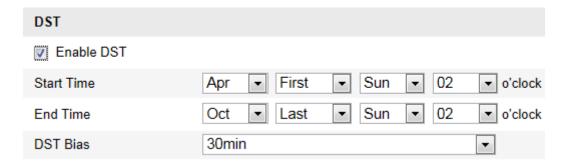


Figure 6-6 DST Settings



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. IPv4 and IPv6 are both supported.

Steps:

1. Enter TCP/IP Settings interface:

Configuration > Basic Configuration > Network > TCP/IPOr **Configuration > Advanced Configuration > Network > TCP/IP**

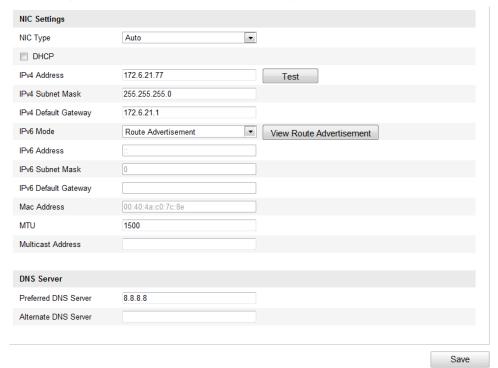


Figure 6-7 TCP/IP Settings

- 2. Configure the NIC settings, including the IPv4(IPv6) Address, IPv4(IPv6) Subnet Mask and IPv4(IPv6) Default Gateway.
- 3. Click save the above settings.

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



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

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Figure 6-8 DNS Server Settings

The router must support the route advertisement function if you select

Route Advertisement as the IPv6 mode.



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 forward the 3 ports for the speed dome.

Steps:

1. Enter the Port Settings interface:

Configuration > Basic Configuration > Network > PortOr **Configuration > Advanced Configuration > Network > Port**

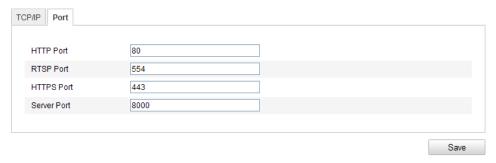


Figure 6-9 Port Settings

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

HTTP Port: The default port number is 80. **RTSP Port**: The default port number is 554. **HTTPS Port**: The default port number is 443. **Server Port**: The default port number is 8000.

3. Click 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:

1. Enter the PPPoE Settings interface:

Configuration > Advanced Configuration > Network > PPPoE

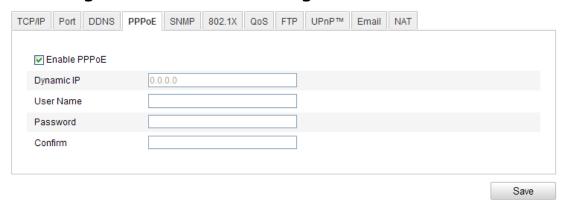
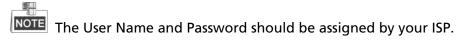


Figure 6-10 PPPoE Settings

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



4. Click 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

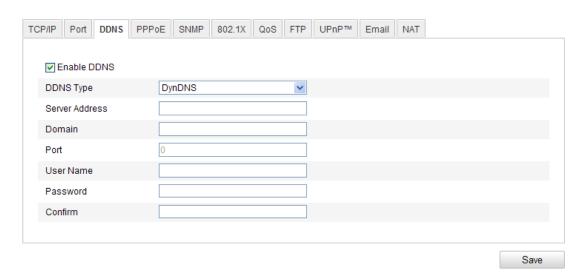


Figure 6-11 DDNS Settings

- 2. Check the **Enable DDNS** checkbox to enable this feature.
- 3. Select **DDNS Type**. Three DDNS types are selectable: IPServer, HiDDNS, NO-IP 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 save the settings.

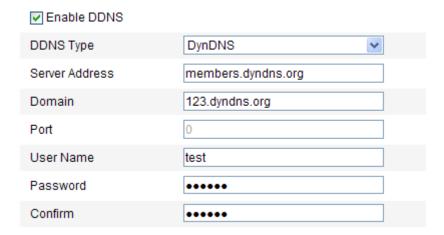


Figure 6-12 DynDNS Settings

• IP Server:

Steps:

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

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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 6-13 IPServer Settings

HiDDNS:

Steps:

- (1) Enter the Server Address: www.hiddns.com.
- (2) Enter the Domain name of the camera. The domain is the same with the device alias in the HiDDNS server.
- (3) Click save the settings.

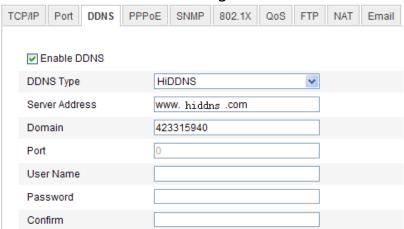


Figure 6-14 HiDDNS Settings

• NO-IP:

Steps:

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

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

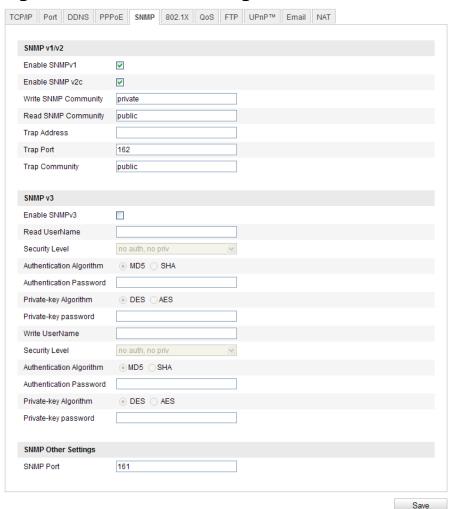


Figure 6-15 SNMP Settings

2. Check the corresponding version checkbox (Enable SNMP SNMPv1

Enable SNMP v2c , Enable SNMPv3) to enable the feature.

3. Configure the SNMP settings.

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

4. Click save and finish the settings.



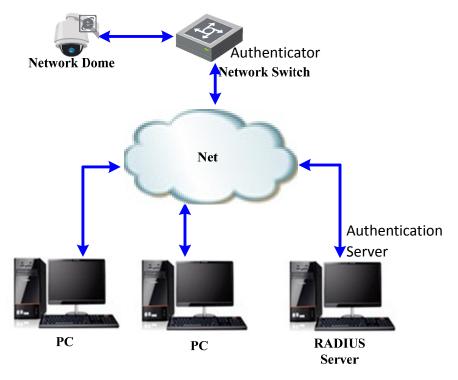
6.3.6 Configuring 802.1X Settings

Purpose:

The speed dome supports IEEE 802.1X standard.

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

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



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Figure 6-16 Protected LAN

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

Steps:

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

Configuration > Advanced Configuration > Network > 802.1X

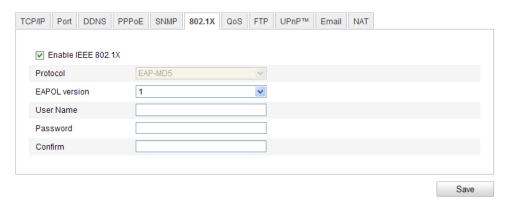


Figure 6-17 802.1X Settings

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

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

- 5. Enter the user name and password (issued by the CA) to access the server.
- 6. Click save to finish the settings.

The camera reboots when you save the settings.

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



6.3.7 Configuring QoS Settings

Purpose:

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

Steps:

1. Enter the QoS Settings interface:

Configuration > Advanced Configuration > Network > QoS

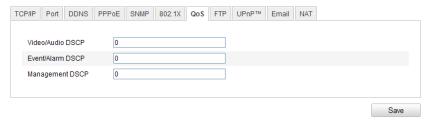


Figure 6-18 QoS Settings

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

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

3. Click save the settings.



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



6.3.8 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

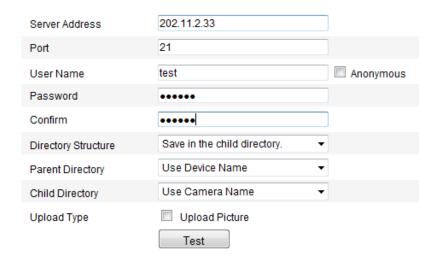


Figure 6-19 FTP Settings

- 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 6-20.

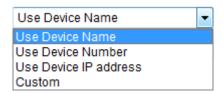


Figure 6-20 Parent Directory

♦ **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 6-21.

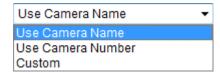


Figure 6-21 Child Directory

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

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

If you want to upload the captured pictures to FTP server, you also have to enable the continuous snapshot or event-triggered snapshot in **Snapshot** interface. For detailed information, please refer to the Section **7.3 Configuring Snapshot Settings**.



6.3.9 Configuring UPnP™ Settings

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

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

Steps:

1. Enter the UPnP™ settings interface.

Configuration > Advanced Configuration > Network > UPnP

Check the checkbox to enable the UPnP™ function.
 You can edit the Friendly Name of the speed dome. This name can be detected by corresponding device, such as a router.



Figure 6-22 Configure UPnP Settings



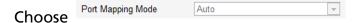
6.3.10 Configuring NAT (Network Address Translation) Settings

Steps:

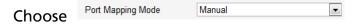
1. Set the port mapping mode:

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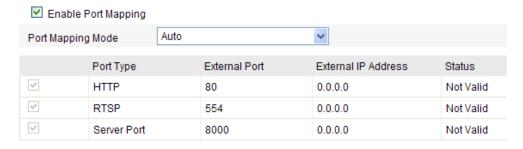
To port mapping with the default port numbers:



To port mapping with the customized port numbers:



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



2. Click Save to save the settings.



6.3.11 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:

1. Enter the Email Settings interface:

Configuration > Advanced Configuration > Network > Email

Sender		
Sender		
Sender's Address		
SMTP Server		
SMTP Port	25	
Enable SSL		
Interval	2s	Attached Image
Authentication		
User Name		
Password		
Confirm		
Receiver		
Receiver1		
Receiver1's Address		Test
Receiver2		
Receiver2's Address		
Receiver3		
Receiver3's Address		

Figure 6-23 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.

(Optional: click Test to make sure that the email server can send email

out.)

3. Click save the settings.



6.3.12 Configuring Platform Access Settings

When you need to connect the speed dome to a certain platform, please enter the Platform Access interface to configure the settings.

To enter the interface:

Configuration > Advanced Configuration > Network > Platform Access

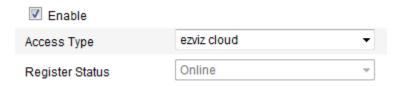


Figure 6-24 Platform Access

6.3.13 Configuring HTTPS Settings

Purpose:

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

To Create Self-signed Certificate:

Steps:

- 1. Click Create on the left of Create Self-signed Certificate.
- 2. In the pop-up interface, input the Country, Hostname/IP, Validity,
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Password, etc.. Click OK.

The Self-signed Certificate information is displayed under **Installed Certificate**. If you need to disable this certificate, click **Delete** on the right of **Installed Certificate**.

To Install Authoritative Certificate:

For more secure HTTPS access, you can purchase an authoritative certificate from a CA (Certificate Authority). Install this certificate to the device.

Steps:

- 1. Click Create on the left of Create Certificate Request.
- 2. In the pop-up interface, input the Country, Hostname/IP, Validity, Password, etc.. Click **OK**.

To access the speed dome via HTTPS:

Steps:

- 1. Open the web browser.
- 2. Input the IP address of the network speed dome and press the **Enter** key to enter the login interface.

Notes:

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

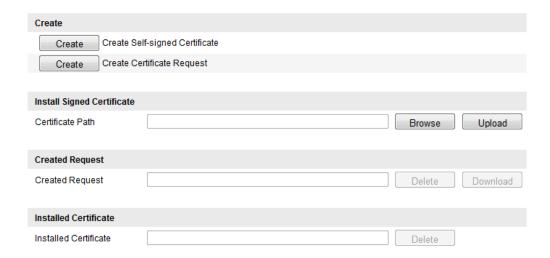


Figure 6-25 HTTPS Settings

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

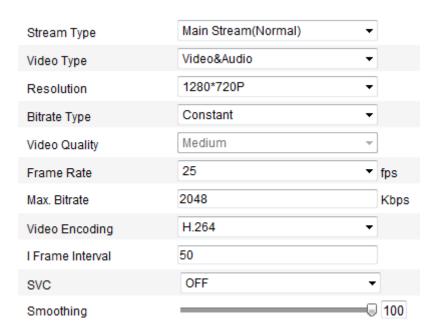


Figure 6-26 Configure Video Settings

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 32~12288Kbps. 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.

I Frame Interval:

Set the I-Frame interval from 2 to 250.

SVC:

SVC(Scalable video coding technology) is for storing videos when the bandwidth is limited. To use this function, a specified H.264 encoding storage device is necessary.

Smoothing:

This function is valid only when the **Bitrate Type** is **Constant**. The value ranges from (clear)0 to 100(smoothing).

4. Click Save 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



Figure 6-27 Audio Settings

2. Configure the following settings.

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

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

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

3. Click save the settings.



6.4.3 Configuring ROI Settings

Before you start:

ROI (Region of Interest) encoding is used to enhance the quality of images which are specified in advance.

Stream Type:

You can set the ROI function for main stream or sub stream. Select a stream type and then configure the ROI settings.

• **Fixed Region:** The fixed region encoding is the ROI encoding for the manually configured area. And you can choose the Image Quality Enhancing level for ROI encoding, and you can also name the ROI area.

Steps:

- 1. Select a **Region No.**.
- Check the check box of Enable under Fixed Region.
- 3. Click Draw Area and draw a red frame in the live view image.
- 4. Adjust the **ROI level** from 1 to 6. The higher the value, the better image quality in the red frame.
- 5. Enter a **Region Name** and click **Save** to save the settings.

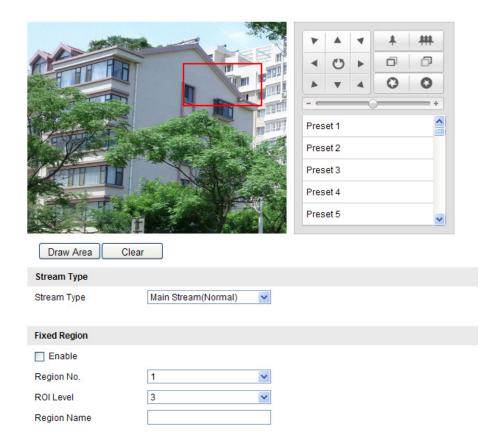


Figure 6-28 Region of Interest



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.



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

Steps:

1. Enter the Display Settings interface:

Configuration > Basic Configuration > Image > Display Settings Or Configuration > Advanced Configuration > Image > Display Settings

2. Set the image parameters of the speed dome.



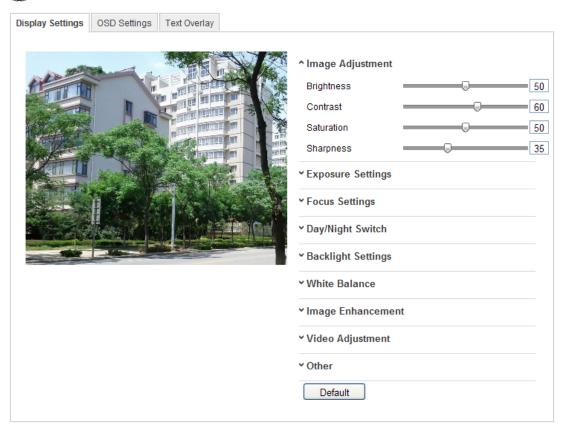


Figure 6-29 Display Settings

Image Adjustment

Brightness

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

Contrast

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

Saturation

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

Sharpness

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

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This function varies depending on the models of speed dome.

Exposure Settings

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.



Figure 6-30 Manual Iris

◆ Shutter Priority:

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



Figure 6-31 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.



Figure 6-32 Manual Gain

◆ Manual:

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



Limit Gain

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

Slow Shutter

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



Figure 6-33 Slow Shutter

Focus Settings

Focus Mode

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

Auto:

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

◆ Semi-auto:

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

◆ Manual:

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

Min. Focus Distance

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

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

Day/Night Switch

Day/Night Switch

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

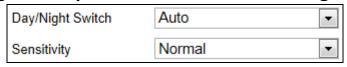


Figure 6-34 Auto Mode Sensitivity

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◆ 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.

♦ Schedule:

In **Schedule** mode, you can set the time schedule for day mode as shown in Figure 6-35. The rest time out of the schedule is for night mode.



This function varies depending on the models of speed dome.



Figure 6-35 Day Night Schedule

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.

Trigger Mode can be set to **Camera** or **Photosensitive**.

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



Only the IR speed domes support IR Light Mode.



- When the **IR Light Mode** is auto, the day/night mode is adjusted automatically according to the IR Light Mode. Manually setting the day/night mode is invalid.
- When the IR Light Mode is manual and the IR Light Bright is 0, you can set the day/night mode manually.
- When the IR Light Mode is manual and the IR Light Bright is not 0, the night mode is set as the default mode. Manually setting the day/night mode is invalid.

Backlight Settings

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

• WDR (Wide Dynamic Range)

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

You can enable or disable the WDR function as shown in Figure 6-36. The wide dynamic level ranges from 0 to 100.

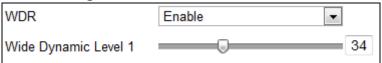


Figure 6-36 WDR



This function varies depending on the models of speed dome.

HLC

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

White Balance

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

♦ Auto:

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

Manual White Balance:

In **MWB** mode, you can adjust the color temperature manually to meet your own demand as shown in Figure 6-37.

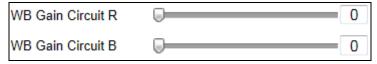


Figure 6-37 Manual White Balance

♦ Outdoor

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

♦ Indoor

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

♦ Fluorescent Lamp

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

♦ Sodium Lamp

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

◆ Auto-Track

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



This function varies depending on the models of speed dome.

Image Enhancement

3D Digital Noise Reduction

You can enable or disable the 3D Digital Noise Reduction function as shown in Figure 6-38. The level ranges from 0 to 100.

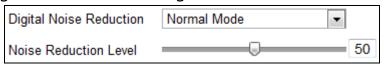


Figure 6-38 3D Digital Noise Reduction



NOTE This function varies depending on the models of speed dome.

Video Adjustment

Mirror

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



NOTE This function varies depending on the models of speed dome.

Video Standard

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



This function varies depending on the models of speed dome.

Capture Mode

You can disable this function or set the value as 1280*720@30fps or 1280*960@30fps.



NOTE This function varies depending on the models of speed dome.

Other

Lens Initialization

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

Zoom Limit

You can set **Zoom Limit** value to limit the maximum value of zooming. The value can be set to 20, 40, 80, 160 and 320.



This function varies depending on the models of speed dome.

6.5.2 Configuring OSD Settings

Purpose:

The speed dome supports following on screen displays:

Time: Supports for time display.

Camera Name: Identifies the name of speed dome.

You can customize the on screen display of time.

Steps:

1. Enter the OSD Settings interface:

Configuration > Advanced Configuration > Image > OSD Settings



Figure 6-39 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, display mode, OSD size and Font color.

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5. You can use the mouse to click and drag the text frame live view window to adjust the OSD position.



Figure 6-40 Adjust OSD Location

6. Click save to activate above settings.



6.5.3 Configuring Text Overlay Settings

Purpose:

You can customize the text overlay.

Steps:

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

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

© ALLNET GmbH Computersysteme 2015 – All rights reserved Errors and omissions excepted Display Settings OSD Settings Text Overlay

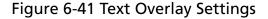
V 1 Text 1

V 2 Text 2

3 3

4 Save

displayed, the text overlay is disabled.





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, video tampering and exception. These events can trigger the alarm actions, such as Notify Surveillance Center, Send Email, Trigger, etc.

For example, when motion detection 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

© ALLNET GmbH Computersysteme 2015 – All rights reserved Errors and omissions excepted (2) Check the checkbox of **Enable Motion Detection**.

Enable Motion DetectionEnable Dynamic Analysis for Motion

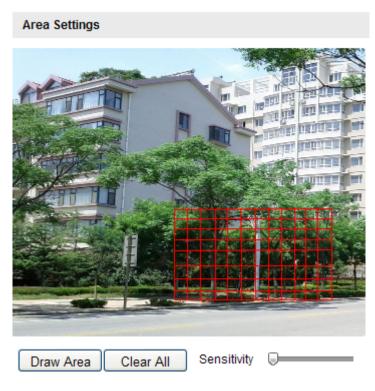


Figure 6-42 Enable Motion Detection

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

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

(4) Click Stop Drawing to finish drawing.

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

- (5) Move the slider Sensitivity of the detection.
- 2. Set the Arming Schedule for Motion Detection.

Steps:

(1) To edit the arming schedule as shown in Figure 6-44, click in Figure 6-43.

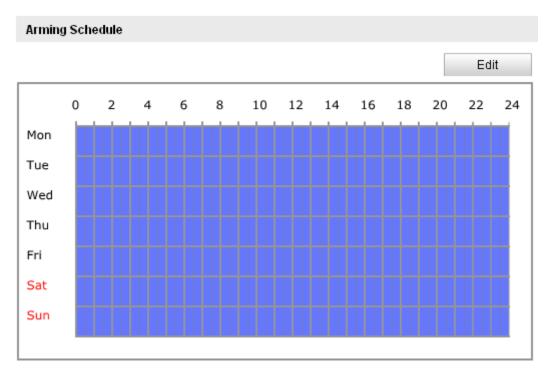


Figure 6-43 Arming Schedule

- (2) Choose the day you want to set the arming schedule as shown in Figure 6-44.
- (3) Click lime to set the time period for the arming schedule.
- (4) After you set the arming schedule, you can click Copy the schedule to other days (Optional).
- (5) Click ok to save the settings.

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

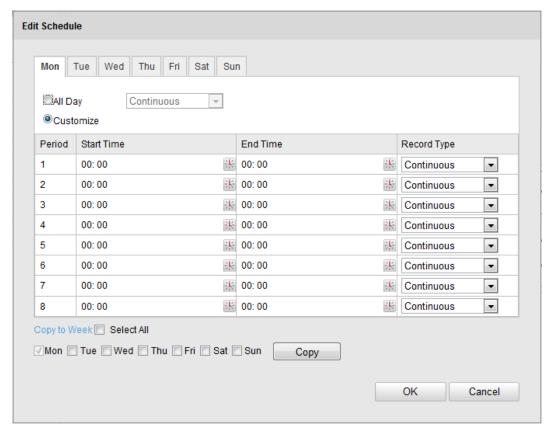


Figure 6-44 Arming Time Schedule

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.

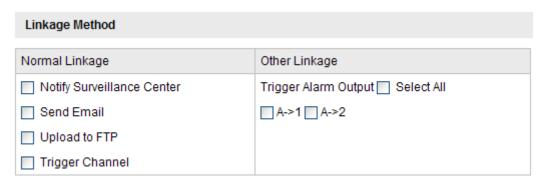


Figure 6-45 Linkage Method

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

© ALLNET GmbH Computersysteme 2015 – All rights reserved Errors and omissions excepted Send an exception or alarm signal to remote management software when an event occurs.

Send Email

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



To send the Email when an event occurs, you need to refer to Section 6.3.10 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.



You need a FTP server and set FTP parameters first. Refer to Section 6.3.8 Configuring FTP Settings for setting FTP parameters.

Trigger Channel

Record a video when an event occurs.



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.



6.6.2 Configuring Video Tampering Alarm

Purpose:

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

Steps:

1. Enter the video tampering Settings interface:

Configuration > Advanced Configuration > Events > Video **Tampering**



Figure 6-46 Tampering Alarm

- 2. Check **Enable Video Tampering** checkbox to enable the tampering detection.
- 3. Set the tampering 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 tampering. 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 tampering. 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 save the settings.



6.6.3 Configuring External Alarm Input

- 1. Enter the Alarm Input Settings interface:
 - Configuration > Advanced Configuration> Events > Alarm Input:
- 2. Choose the alarm input No. and the Alarm Type. The alarm type can be NO (Normally Open) and NC (Normally Closed).

Alarm	Innut N	lo.		Α<	1								
Alami	input i	10.		A	-1				~				
Alarm Name Alarm Type													
		NO	NO •										
Armin	g Sch	edule											
												E	dit
	0	2	4	6	8	10	12	14	16	18	20	22	24
		_											
Mon		1											
Mon Tue					i i								
							1 1	i i					
Tue													1 1 1
Tue Wed													
Tue Wed Thu													
Tue Wed Thu													

Figure 6-47 Alarm Input Settings

- 4. 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.
- 5. 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.
- 6. You can also choose the PTZ linking for the alarm input. Check the relative checkbox and select the No. to enable Preset Calling, Patrol

Calling or Pattern Calling.

- 7. You can copy your settings to other alarm inputs.
- 8. Click save the settings.

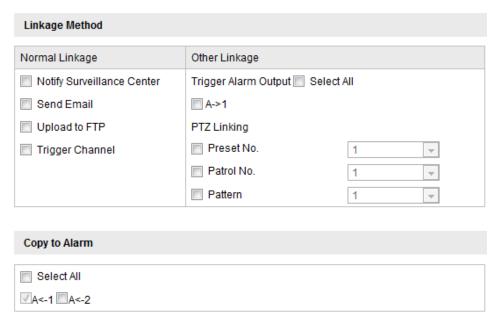


Figure 6-48 Linkage Method



6.6.4 Configuring Alarm Output

- Enter the Alarm Output Settings interface:
 Configuration>Advanced Configuration> Events > Alarm
 Output
- 2. Select one alarm output channel in the **Alarm Output** drop-down list.
- 3. Set a name in alarm output (optional).
- 4. The **Delay** time can be set to **5sec**, **10sec**, **30sec**, **1min**, **2min**, **5min**, **10min** or **Manual**. The delay time refers to the time duration that the alarm output remains in effect after alarm occurs.
- 5. Click 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*.

6. You can copy the settings to other alarm outputs.

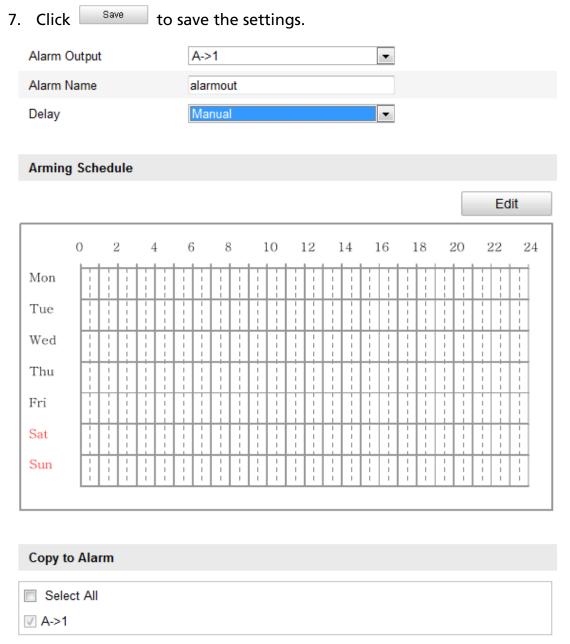


Figure 6-49 Alarm Output Settings



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.



Figure 6-50 Exception Settings

3. Click save the settings.



6.6.6 Detecting Audio Exception

Purpose:

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

Steps:

1. Enter the video audio exception detection interface:

Configuration > Advanced Configuration > Events > Audio Exception Detection

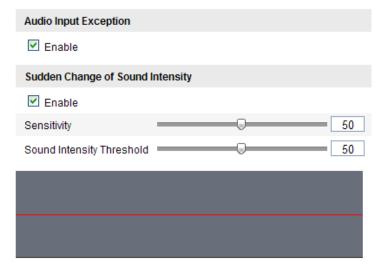


Figure 6-51 Audio Exception Detection

- 2. Check **Enable** under **Audio Input Exception** checkbox to enable the audio input exception detection.
- 3. Check **Enable** under **Sudden Change of Sound Intensity** checkbox to enable the sudden change detection.
 - **Sensitivity**: Range [1-100], the smaller the value the more severe the sound change will trigger the detection.
 - **Sound Intensity Threshold**: Range [1-100], it can filter the sound in the environment, the louder the environment sound, the higher the value should be. You can adjust it according to the actual environment.
- 4. Click to edit the arming schedule. 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 audio exception. Notify surveillance center, send email, trigger alarm output, etc. are selectable. Please refer to *Step 3 Set the Alarm Actions for Motion Detection* in Section *6.6.1 Configuring Motion Detection*.
- 6. Click save the 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 Micro 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

(2) Select the NAS type as NFS or SMB/CIFS. If you select SMB/CIFS, you need to enter the User Name and Password.

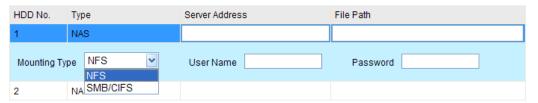


Figure 7-1 Select NAS Type

- (3) Enter the IP address of the network disk. The default NFS storage format of file path is */dvr/test* as shown in Figure 7-2. And the default SMB/CIFS storage format of file path is */test*.
- (4) Click **Test** to make sure that the NAS is connected successfully.(Optional)

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

Figure 7-2 Add Network Disk

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.

(5) Click Save to add the network disk.

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 7-3, check the corresponding checkbox to select the disk and click

Format to start initializing the disk.



Figure 7-3 Initialize Disk



Figure 7-4 Initializing

When the initialization completed, the status of disk will become **Normal** as shown in Figure 7-5.



Figure 7-5 View Disk Status

Quota:

In **Storage Management** interface, you can predefine the storage space for storing the pictures and videos by configuring the **Percentage of Picture** and **Percentage of Record** manually.



- Up to 8 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

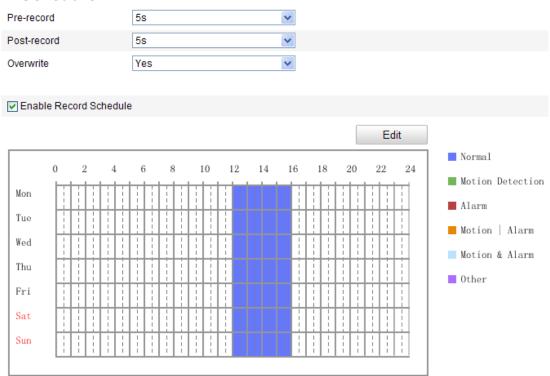


Figure 7-6 Recording Schedule Interface

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

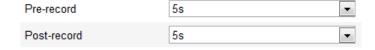


Figure 7-7 Record Parameters
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• **Pre-record:** The time you set to start recording before the scheduled time or the event. For example, if an alarm triggers recording at 10:00, and the pre-record time is set as 5 seconds, the speed dome starts to record at 9:59:55.

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

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

- Post-record: The time you set to stop recording after the scheduled time or the event. For example, if an alarm triggered recording ends at 11:00, and the post-record time is set as 5 seconds, the speed dome records until 11:00:05.
 - The Post-record time can be configured as 5 s, 10 s, 30 s, 1 min, 2 min, 5 min or 10 min.
- **Overwrite**: If you enable his function and the HDD is full, the new record files overwrite the oldest record files automatically.

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

4. Click Edit to edit the record schedule.

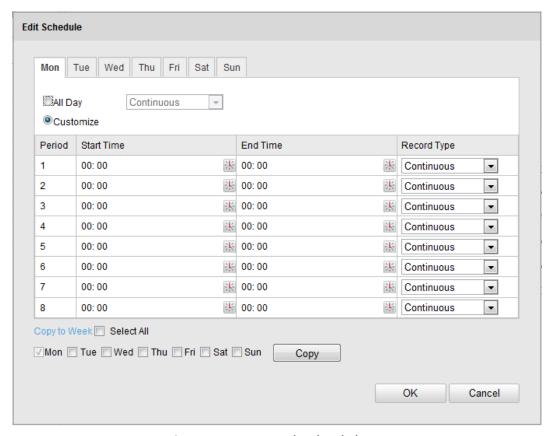


Figure 7-8 Record Schedule

- 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**.

The time of each segment can't be overlapped. Up to 8 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.

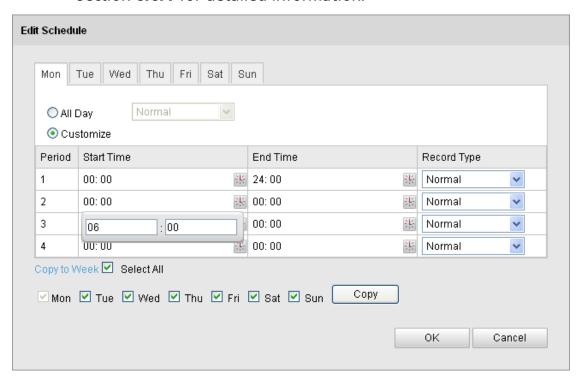


Figure 7-9 Edit Record Schedule

- (3) Check the checkbox Select All and click Copy to copy settings of this day to the whole week. You can also check any of the checkboxes before the date and click Copy.
- (4) Click to save the settings and exit the **Edit Record Schedule** interface.
- 6. Click save the settings.



7.3 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

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Steps:

- 1. Enter the Snapshot Settings interface:
 - **Configuration > Advanced Configuration > Storage > 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 Save 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 6.3.8 Configuring FTP **Settings** for more details to configure FTP parameters.
- 2) Check the **Enable Timing Snapshot** checkbox.
- 3) Click Edit to set the snapshot schedule. Refer to Step 2 Set the Arming Schedule for Motion Detection in Section 6.6.1 **Configuring Motion Detection.**



Upload event-triggered snapshots to FTP

- 1) Configure the FTP settings and check Upload Picture checkbox in FTP Settings interface. Please refer to Section 6.3.8 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.

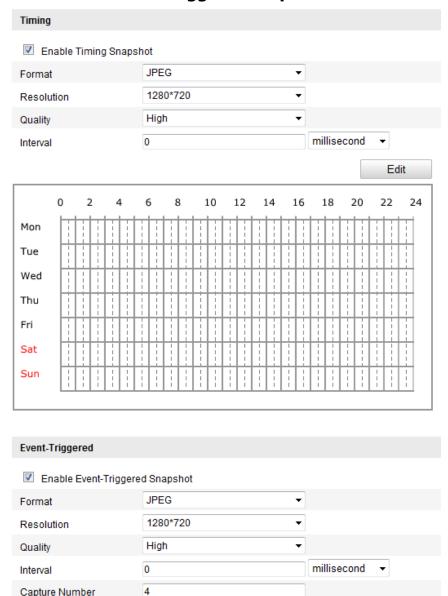


Figure 7-10 Snapshot Settings



Capture Number

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.

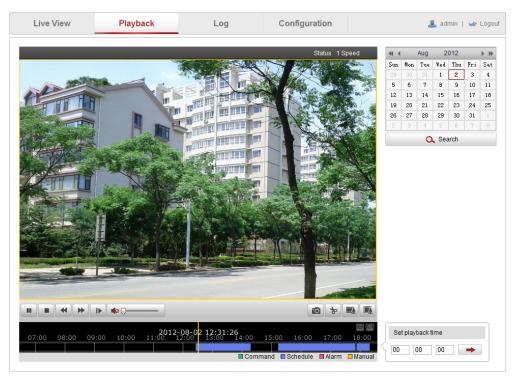


Figure 8-1 Playback Interface

2. Select the date and click Search



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	6	Capture a picture
н	Pause	8/8	Start/Stop clipping video files
	Stop		Audio on and adjust volume/Mute
*	Speed down		Download video files
>	Speed up		Download captured pictures
Status 1 Speed	Display playback status	1	Playback by frame

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.

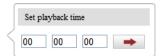


Figure 8-4 Set Playback Time



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.

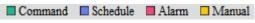


Figure 8-6 Video Types

Task 2: To download the video files

- 1. Click on the playback interface. The pop-up menu is shown in Figure 8-7.
- 2. Set the start time and end time. Click **Search**. The corresponding video files are listed on the left.



Figure 8-7 Video Downloading interface

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





- The progress ratio
 6% displays the downloading ratio of the video file.

- 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.

Task 3: To download the captured pictures

- 1. Click on the playback interface. The pop-up menu is shown in Figure 8-8.
- 2. Set the linkage type of capturing the pictures as timing, alarm, motion, etc..
- 3. Set the start time and end time. Click **Search**. The corresponding picture files are listed on the left.
- 4. Check the checkbox in front of the files that you need to download.
- 5. Click Download to download the files.

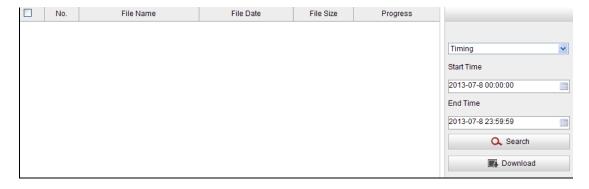


Figure 8-8 Picture Downloading interface



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.

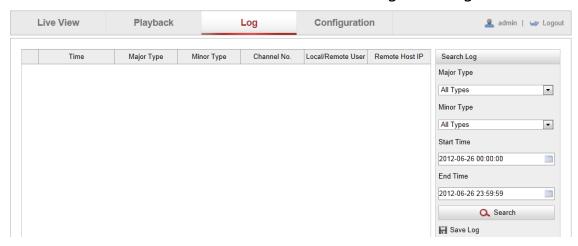


Figure 9-1 Log Searching Interface

- 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 Search to search log files. The matched log files will be displayed on the **Log** interface.

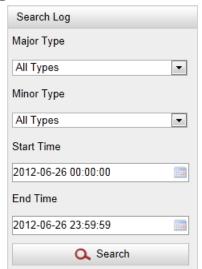


Figure 9-2 Log Searching

4. To export the log files, click Save Log 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 > UserOr **Configuration > Advanced Configuration > Security > User**

The **admin** user has access to create, modify or delete other accounts. Up to 32 user accounts can be created.



Figure 10-1 User Information

Add a User

- 1. Click Add to add a user.
- 2. Input the new User Name, select Level and input Password.
 - 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.

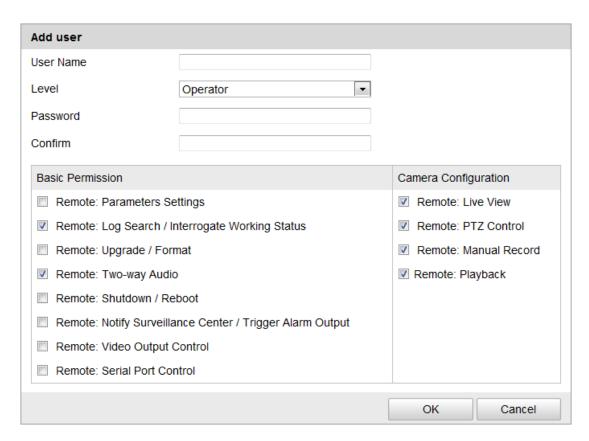


Figure 10-2 Add a User



Modify a User

- 1. Left-click to select the user from the list and click Modify
- 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 oK to finish the user modification.

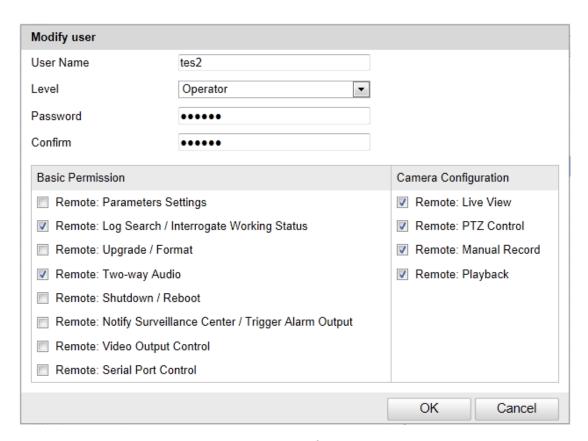


Figure 10-3 Modify a User



Delete a User

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

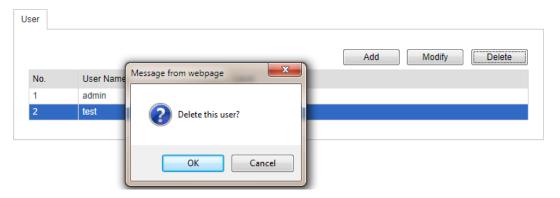


Figure 10-4 Delete a User



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 Authentication

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



10.3 Configuring Anonymous Visit

When you enable this function, you can log into the camera without a username and password.

In login interface, check the **Anonymous** checkbox and click **Login** to enter the camera as shown in Figure 10-7.



Figure 10-6 Anonymous Login



Figure 10-7 Login Interface

10.4 Configuring IP Address Filter

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

Filter Type	Description
Forbidden	Forbid the IP addresses added in the IP Address Filter interface to log in.
Allowed	Allow only the IP addresses added in the IP Address Filter interface to log in.

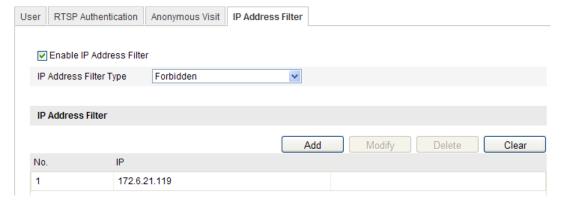


Figure 10-8 IP Address Filter

10.5 Security Service

You can enable/disable the **Telnet/SSH** function in the interface:

Configuration > Advanced Configuration> Security > Security Service



Figure 10-9 Security Service

10.6 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.

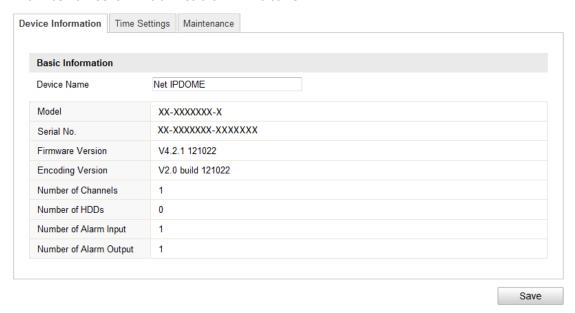


Figure 10-10 Device Information

10.7 Maintenance

10.7.1 Rebooting the Speed Dome

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



Figure 10-11 Reboot the Device



10.7.2 Restoring Default Settings

Steps:

- 1. Enter the Maintenance interface:
- Configuration > Basic Configuration > System > Maintenance
 Or Configuration > Advanced Configuration > System >
 Maintenance
- 2. Click Restore or Default to restore the default settings.

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

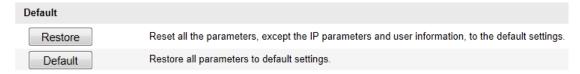


Figure 10-12 Restore Default Settings



10.7.3 Importing/Exporting Configuration File

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



Figure 10-13 Import/Export Configuration File



10.7.4 Upgrading the System

Steps:

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

Upgrade to start remote upgrade.

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

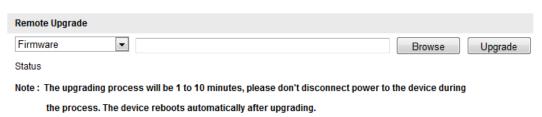


Figure 10-14 Remote Upgrade



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.

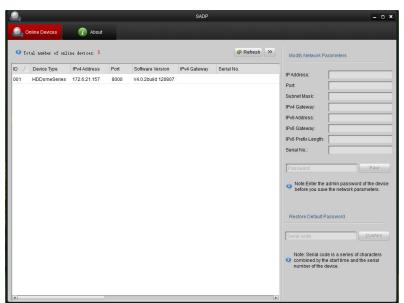


Figure A.1.1 Searching Online Devices

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 Refresh to refresh the online device list manually. The newly searched devices will be added to the list.

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

Modify network parameters

Steps:

- 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 save the changes.

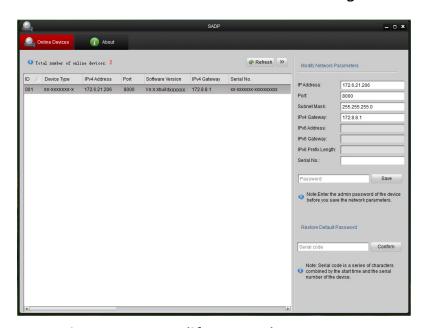


Figure A.1.2 Modify Network Parameters



• Restore default password

Steps:

1. Contact our technical engineers to get the serial code.

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 Confirm 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:

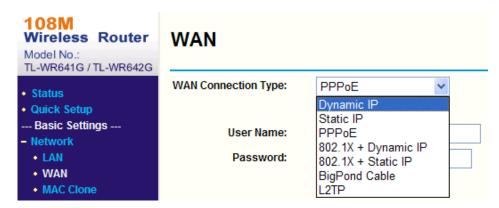


Figure A.2.1 Select the WAN Connection Type

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

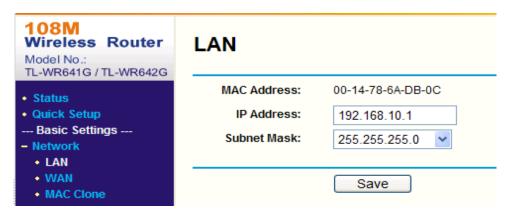


Figure A.2.2 Set the LAN parameters

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





• 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 Save

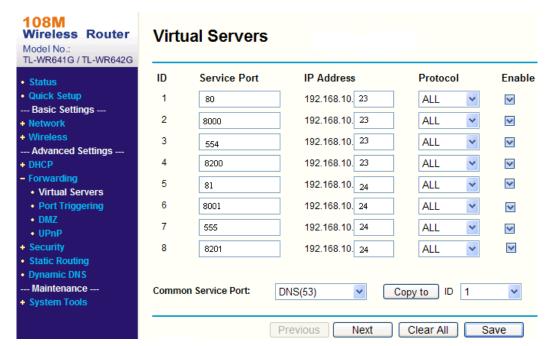


Figure A.2.3 Port Mapping



NOTE

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.

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