

IR High-definition Network

Speed Dome

User Manual

V4.0.2



Hangzhou Hikvision Digital Technology Co., Ltd.

http://www.hikvision.com

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

This manual applies to Network Speed Dome.

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

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Safety Warnings and Cautions

Please pay attention to the following warnings and cautions:



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

contain live circuits.



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

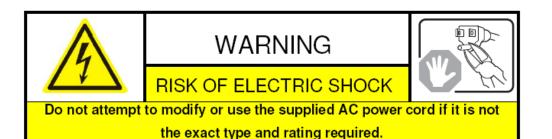


System Grounding (Earthing): To avoid shock, ensure that all AC wiring is not exposed and that the earth grounding is maintained. Ensure that any equipment to which this device will be attached is also connected to properly wired grounded receptacles and are approved medical devices.



Power Connect and Disconnect:The AC power supply cord is the main disconnect device to mains (AC power).The socket outlet shall be installed near the equipment and shall be readily accessible. **Installation and Maintenance:**Do not connect/disconnect any

cables to or perform installation/maintenance on this device during an electrical storm.



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



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

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

Taiwan battery recycling:



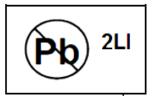
Please recycle batteries.



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

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

Lead Content:



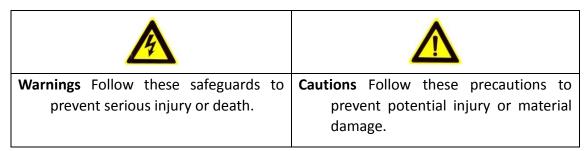
Please recycle this device in a responsible manner. Refer to local environmental regulations for proper recycling; do not dispose of device in unsorted municipal waste.

Safety Instruction

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

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

- Warnings: Serious injury or death may be caused if any of these warnings are neglected.
- **Cautions**: Injury or equipment damage may be caused if any of these cautions are neglected.





- Please adopt the power adapter which can meet the safety extra low voltage (SELV) standard. And source with DC 12V or AC 24V (depending on models) according to the IEC60950-1 and Limited Power Source standard.
- Do not connect several devices to one power adapter as an adapter overload may cause over-heating and can be a fire hazard.
- When the product is installed on a wall or ceiling, the device should be firmly fixed.
- To reduce the risk of fire or electrical shock, do not expose the indoor used product to rain or moisture.
- This installation should be made by a qualified service person and should conform to all the local codes.
- Please install blackouts equipment into the power supply circuit for convenient supply interruption.
- If the product does not work properly, please contact your dealer or the nearest service center. Never attempt to disassemble the product yourself. (We shall not assume any responsibility for problems caused by unauthorized repair or maintenance.)



- Make sure the power supply voltage is correct before using the product.
- Do not drop the product or subject it to physical shock. Do not install the product on vibratory surface or places.
- Do not expose it to high electromagnetic radiating environment.
- Do not aim the lens at the strong light such as sun or incandescent lamp. The strong light can cause fatal damage to the product.
- The sensor may be burned out by a laser beam, so when any laser equipment is being used, make sure that the surface of the sensor not be exposed to the laser beam.
- Do not place the product in extremely hot, cold temperatures (the operating temperature should be between -10°C ~ 60°C), dusty or damp environment.
- To avoid heat accumulation, good ventilation is required for a proper operating environment.
- While shipping, the product should be packed in its original packing.
- Please use the provided glove when open up the product cover. Do not touch the product cover with fingers directly, because the acidic sweat of the fingers may erode the surface coating of the product cover.
- Please use a soft and dry cloth when clean inside and outside surfaces of the product cover. Do not use alkaline detergents.
- Improper use or replacement of the battery may result in hazard of explosion. Please use the manufacturer recommended battery type.

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Chapter 1 Overview

1.1 System Requirement

System requirement of web browser accessing is as follows: **Operating System:** Microsoft Windows XP SP1 and above version / Vista / Win7 / Server 2003 / Server 2008 32bits **CPU:** Intel Pentium IV 3.0 GHz or higher **RAM:** 1G or higher **Display:** 1024×768 resolution or higher **Web Browser:** Internet Explorer 6.0 and above version, Apple Safari 5.02 and above version, Mozilla Firefox 3.5 and above version and Google Chrome8 and above versions.

1.2 Appearance



Figure 1-1 Appearance

1.3 Features

Infrared light features:

- 0 Lux minimum illumination
- Up to 100m radiation distance
- Life span of IR light reaching up to 30,000 hours

System features:

- 1/3" high performance sensor with high definition
- ±0.1° Preset Accuracy
- Self-adaptive to private, Pelco-P/D protocol
- 3D positioning function

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- Power-off memory function: restore PTZ & Lens status after reboot
- Scheduled PTZ movement

Camera features:

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

PTZ features:

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

Network features:

- H.264/MJPEG video compression
- Built-in Web server
- SD/SDHC card local storage
- Dual stream
- Multiple network protocols supported
- Up to 6 clients can simultaneously get the live view of a dome via network

1.4 Functions

• Limit Stops

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

• Scan Modes

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

• Preset Freezing

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

• Presets

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

• Label Display

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

• Auto Flips

In manual tracking mode, when a target object goes directly beneath the dome, the video will automatically 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.

Chapter 2 Network Connection

Before you start:

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

2.1 Setting the Network Speed Dome over the LAN

Purpose:

To view and configure the speed dome via a LAN, you need to connect the network speed dome in the same subnet with your computer, and install the SADP or iVMS-4200 software to search and change the IP of the network speed dome.

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

2.1.1 Wiring over the LAN

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

Purpose:

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

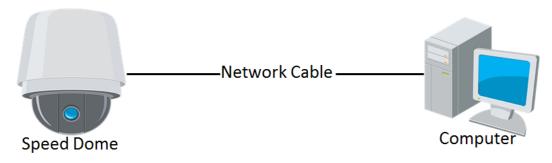


Figure 2-1 Connecting Directly

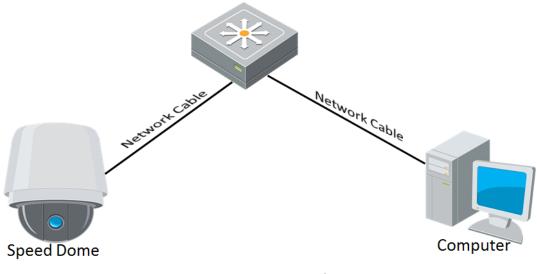


Figure 2-2 Connecting via a Switch or a Router

2.1.2 Detecting and Changing the IP Address

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

Steps:

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

Notes:

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

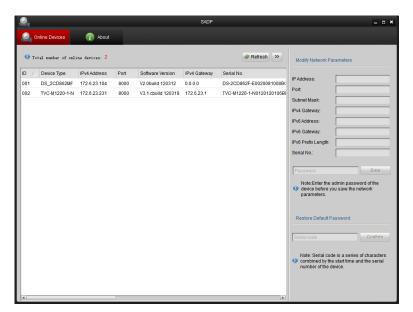


Figure 2-3 SADP Interface

2.2 Setting the Network Speed Dome over the WAN

Purpose:

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

2.2.1 Static IP Connection

Before you start:

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

• Connecting the network speed dome via a router

Steps:

- 1. Connect the network speed dome to the router.
- Assign a LAN IP address, the subnet mask and the gateway. Refer to Section 2.1.2 Detecting and Changing the IP Address for detailed IP address configuration of the speed dome.
- 3. Save the static IP in the router.
- 4. Set port mapping, E.g., 80, 8000 and 554 ports. The steps for port mapping vary depending on different routers. Please call the router manufacturer for assistance with port mapping.

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

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

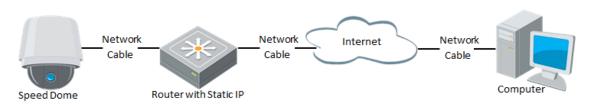


Figure 2-4 Accessing the Speed Dome through Router with Static IP

• Connecting the network speed dome with static IP directly

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



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

2.2.2 Dynamic IP Connection

Before you start:

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

• Connecting the network speed dome via a router

Steps:

- 1. Connect the network speed dome to the router.
- 2. In the speed dome, assign a LAN IP address, the subnet mask and the gateway. Refer to Section **2.1.2 Detecting and Changing the IP Address** for detailed LAN configuration.
- 3. In the router, set the PPPoE user name, password and confirm the password.
- 4. Set port mapping. E.g. 80, 8000 and 554 ports. The steps for port mapping vary depending on different routers. Please call the router manufacturer for assistance with port mapping.

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

- 5. Apply a domain name from a domain name provider.
- 6. Configure the DDNS settings in the setting interface of the router.
- 7. Visit the speed dome via the applied domain name.

• Connecting the network speed dome via a modem

Purpose:

This speed dome supports the PPPoE auto dial-up function. The speed dome gets a public IP address by ADSL dial-up after the speed dome is connected to a modem. You need to configure the PPPoE parameters of the network speed dome. Refer to Section **6.3.3 Configuring PPPoE Settings** for detailed configuration.

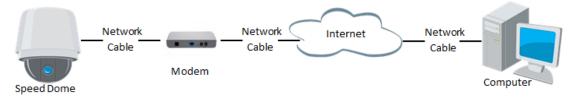


Figure 2-6 Accessing the Speed Dome with Dynamic IP

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

Normal Domain Name Resolution

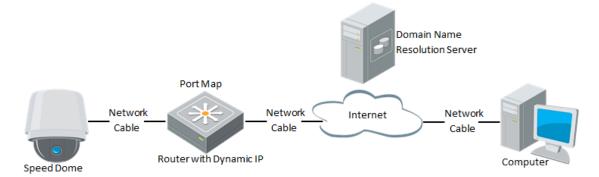


Figure 2-7 Normal Domain Name Resolution

Steps:

- 1. Apply a domain name from a domain name provider.
- 2. Configure the DDNS settings in the **DDNS Settings** interface of the network speed dome. Refer to Section **6.3.4** Configuring DDNS Settings for detailed configuration.
- 3. Visit the speed dome via the applied domain name.
- Private Domain Name Resolution

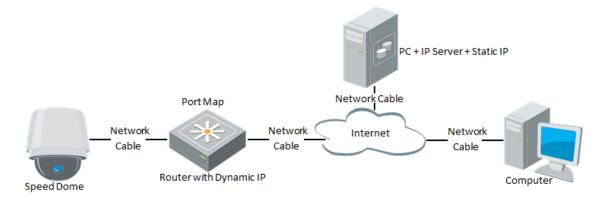


Figure 2-8 Private Domain Name Resolution

Steps:

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

Chapter 3 Access to the Network

Speed Dome

3.1 Accessing by Web Browsers

Steps:

1. Open the web browser.

2. In the address field, input the IP address of the network speed dome, e.g., 192.0.0.64 and press the **Enter** key to enter the login interface.

3. Input the user name and password and click Login

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

		English	~
User Name Password	admin •••••]

Figure 3-1 Login Interface

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

Live View	Playback	Log	Configuration
43 163 X1	Sub Stream Main Stream	2	
Please click here to	o download and install th	e plug-in. Close the brow	vser when installing the plug-in.

Figure 3-2 Download and Install Plug-in

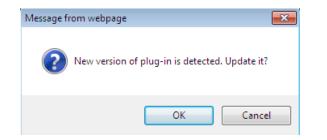


Figure 3-3 Install Plug-in (1)

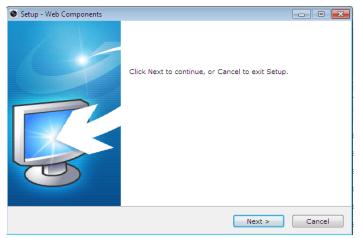


Figure 3-4 Install Plug-in (2)

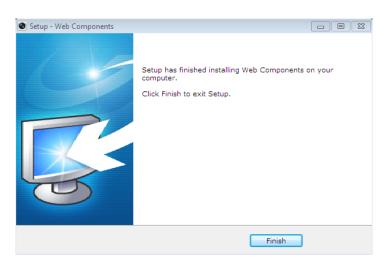


Figure 3-5 Install Plug-in (3)

Note: You may have to close the web browser to install the plug-in. Please reopen

the web browser and log in again after installing the plug-in.

3.2 Accessing by Client Software

3.2.1 Installing iVMS-4200 Software

The product CD contains the iVMS-4200 client software. You can view the live video and manage the speed dome with the client software.

Follow the installation prompts to install the client software and WinPcap. The control panel and live view interface of iVMS-4200 are shown as bellow.

File System View	Tool Help		iVMS-4200				- • ×
🚊 Control Panel 🔀						10:33:57 CPU 2012-02-22 Network	
Main View	E-map	Event Search	Remote Playback	TV Wall	Import Camera	Local Log Search	
Account Management	DVR Device Management	Storage Server	Stream Media Server	Decoding Device			
Camera Settings	System Configuration						
Import Camera: gro	up addition, deletion	n and change, and o	camera import and e	export.			
Alarm Event	Notion Detection	Alorm Start					
		-	camera import and e	xport.			

Figure 3-6 iVMS-4200 Control Panel

File System View	Tool Help	VMS-4200	- • ×
Control Panel	🖳 Main View		10:37:26 CPU
🗎 90RT	^		
😑 7616NI-ST	^		
8464	~		
8464_Camera01			
All File(s)			
21 Picture			
Feb 22 Wed 2012	X 🐼 🕞 🔟	® ← → • • ●	
Alarm Event	Notion Detection Alarm Start		□ *

Figure 3-7 iVMS-4200 Live View Interface

3D Positioning:

Steps:

- 1. Click on the PTZ control panel of live view interface.
- 2. Operate the 3D positioning function:
 - Left click a position of the live video. The corresponding position will be

moved to the center of the live video.

• Hold down the left mouse button and drag the mouse to the lower right on the live video. The corresponding position will be moved to the center of the live video and zoomed in.

• Hold down the left mouse button and drag the mouse to the upper left on the live video. The corresponding position will be moved to the center of the live video and zoomed out.

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

Chapter 4 Live View

4.1 Power-up Action

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

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

ADDRESS	0
COMMUNICATION	0000,0,0,0
SOFTWARE VERSIO	N V000
CAMERA VERSION	
LANGUAGE	ENGLISH

Figure 4-1 Power-up information

4.2 Live View Page

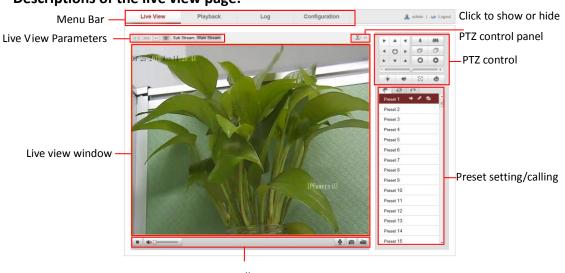
Purpose:

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

Log in the network speed dome to enter the live view page, or you can click

Live View

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



Descriptions of the live view page:

Toolbar

Figure 4-2 Live View Page

Menu Bar:

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

Live View Window:

Display the live video.

Toolbar:

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

PTZ Control:

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

Preset/patrol/pattern:

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

Live View Parameters:

Configure the image size and stream type of the live video.

4.3 Starting Live View

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

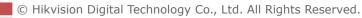




Figure 4-3 Start Live View

Table 4-1 Descriptions of the Toolbar

lcon	Description	lcon	Description
	Live view on	*	Live view off
D	Manually capture the pictures		
iii	Manual recording off	i	Manual recording on
	Audio on and adjust volume		Mute
Ŷ	Two-way audio off	•	Two-way audio on

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

Full-screen Mode

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

Please refer to the following sections for more information:

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

4.4 Recording and Capturing Pictures Manually

In the live view interface, click on the toolbar to capture the live pictures or

click 🔎 to record the live video. The local saving paths of the captured pictures

and clips can be set in the **Configuration > Local Configuration** interface.

To configure remote automatic recording, please refer to Section **7.2** Configuring Recording Schedule.

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

4.5 Operating PTZ Control

Purpose:

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

4.5.1 PTZ Control Panel

On the live view page, click 2 do show the PTZ control panel or click 2 do sho

hide it.

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



Table 4-2 Descriptions of PTZ Control Pane
--

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

4.5.2 Setting / Calling a Preset

Purpose:

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

• Setting a Preset:

Steps:

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

*				
Preset 1	+	ø	©	
Preset 2				
Preset 3				
Preset 4				
Preset 5				
Preset 6				
Preset 7				

Figure 4-5 Setting a Preset

- 2. Use the PTZ control buttons to move the lens to the desired position.
 - Pan the speed dome to the right or left.
 - Tilt the speed dome up or down.
 - Zoom in or out.
 - Refocus the lens.
- 3. Click do finish the setting of the current preset.
- 4. You can click 💁 to delete the preset.

Note: You can configure up to 256 presets.

• Calling a Preset:

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

*				
Preset 1	+	ø	6	
Preset 2				
Preset 3				
Preset 4				
Preset 5				
Preset 6				
Preset 7				
Preset 8				
Preset 9				
Preset 10				
Drocot 11				$\mathbf{\nabla}$

Figure 4-6 Calling a Preset

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

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

Table 4-3 Special Presets

4.5.3 Setting / Calling a Patrol

Purpose:

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

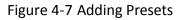
Before you start:

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

• Setting a Patrol: Steps:

- 1. In the PTZ control panel, click is to enter the patrol settings interface.
- 2. Select a patrol number from Path 01
- 3. Click solution to enter the adding interface of preset as shown in Figure 4-7.

Add Patrol Path							
Preset:	Preset 01 💌						
Patrol Time:	1						
Patrol Speed:	1						
OK	Cancel						



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

Name	Description			
Patrol Time	It is the duration staying on one patrol point. The spee			
	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 \blacksquare 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.

43 6 9
Path 01 💽 🖪 🗒
8 1 Preset 1 1s 1
2 Preset 2 1s 1
😒 3 Preset 3 1s 1
•

Figure 4-8 Calling a Preset

u	uttons on the Patrois Interface:								
	Buttons	Description							
		Save a patrol							
		Call a patrol							
	Stop a patrol								
	6	Enter the adding interface of preset							
	1	Modify a preset							
	8	Delete a preset							
	8	Delete all the presets in one patrol							

• Buttons on the Patrols interface:

4.5.4 Setting / Calling a Pattern

Purpose:

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

• Setting a Pattern:

Steps:

- 1. In the PTZ control panel, click to enter the pattern settings interface.
- 2. Select a pattern number from the list as shown in Figure 4-9.

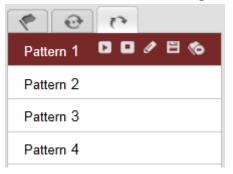




Figure 4-9 Patterns Settings Interface

- 3. Click densities to enable recording the panning, tilting and zooming actions.
- 4. Use the PTZ control buttons to move the lens to the desired position after the information of **PROGRAM PATTERN REMAINNING MENORY(%)** shown in Figure 4-10 is displayed on the screen.
 - Pan the speed dome to the right or left.
 - Tilt the speed dome up or down.
 - Zoom in or out.
 - Refocus the lens.



Figure 4-10 Remaining Memory

5. Click 🔲 to save all the pattern settings.

• Buttons on the Patterns interface:

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

Notes:

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

4.6 Configuring Live View Parameters

•	Widinstream/Sub-stream.										
You	can select	Main Stream	or	Sub Stream	as	the	stream	type	of	live	viewing.

Mainstrann /Cub strann

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 Main Stream

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

• Image Size:

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



Chapter 5 PTZ Configuration

5.1 Configuring Initial Position

Purpose:

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

• Customize an Initial Position:

Steps:

- 1. Enter the Initial Position Configuration interface:
 - Configuration > Advanced Configuration > PTZ > Initial Position

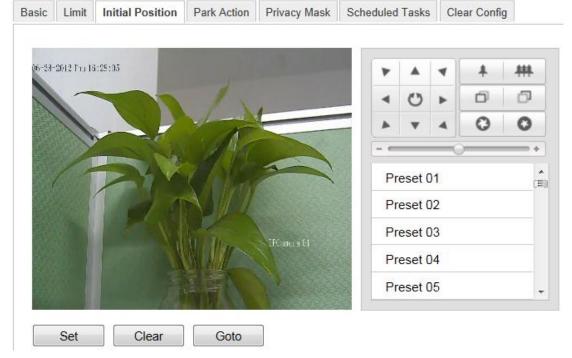


Figure 5-1 PTZ Configuration

- 2. Click the PTZ control buttons to find a position as the initial position of the dome; you can also call a defined preset and set it as the initial position of the dome.
- 3. Click Set to save the position.
- Call/delete an Initial Position:

You can click Goto to call the initial position. You can click Clear 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
```

Basic	Limit	Initial Position	Park Action	Privacy Mask	Scheduled Tasks	Clear Config			
Ba	sic Para	meter							
V	Enable Proportional Pan								
	Enable P	reset Freezing							
Pre	set Spee	ed	4		•				
Key	yboard C	ontrol Speed	Normal		•				
Aut	to Scan S	Speed	28		•				
PT	Z OSD								
Zoo	om Statu	s	2s		•				
PT	Status		2s		•				
Pre	set Statu	IS	2s		•				
Po	wer Off I	Memory							
Set	Set Resume Time Point		30s		•				
								Save	

Figure 5-2 Basic PTZ Configuration Interface

- 2. Configure the following settings:
- **Basic Parameters:** Enable/disable proportional pan and preset freezing, set the preset speed, keyboard control speed, and auto scan speed.
 - Proportional Pan: If you enable this function, the pan/tilt speeds change according to the amount of zoom. When there is a large amount of zoom, the pan/tilt speed will be slower for keeping the image from moving too fast on the live view image.
 - Preset Freezing: This function enables the live view to switch directly from one scene defined by a preset to another, without showing the middle areas between these two, to ensure the surveillance efficiency. It can also reduce the use of bandwidth in a digital network system.
 - *Note:* Preset freezing function is invalid when you calling a pattern.
 - Preset Speed: You can set the speed of a defined preset from 1 to 8.
 - Keyboard Control Speed: Define the speed of PTZ control by a keyboard as Low, Normal or High.
 - Auto Scan Speed: The dome provides 5 scan modes: auto scan, tilt scan, frame scan, random scan and panorama scan. The scan speed can be set from level 1 to 40.
- **PTZ OSD:** Set the on-screen display duration of the PTZ status.

- **Zoom Status:** Set the OSD duration of zooming status as 2 seconds, 5 seconds, ٠ 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.
- Save 3. Click to save the settings.

5.3 Configuring PTZ Limit Stops

Purpose:

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

Steps:

Enter the Limit Configuration interface: 1.

```
Configuration > Advanced Configuration > PTZ > Limit
```

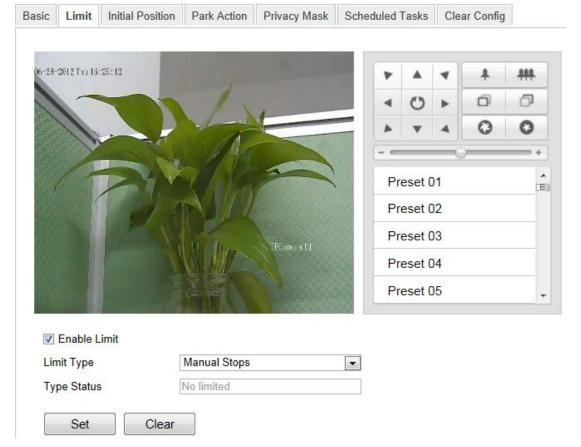


Figure 5-3 Configure the PTZ Limit

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.

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

- 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

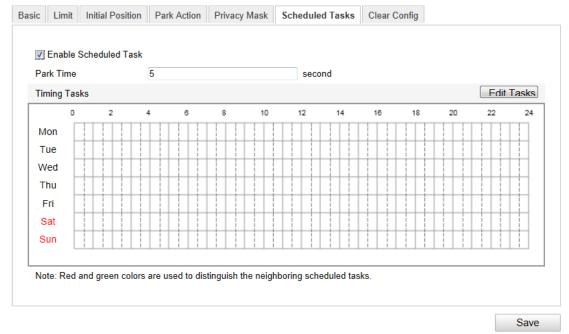


Figure 5-4 Configure Scheduled Tasks

- 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.

Cust	-	v		
Period	Start Time	End Time	Task Type	Task Type ID
1	00:00	00:00	Close	•
2	10 :30		Close	•
3	00:00	00:00	Close	•
4	00:00	00:00	Close	•
5	00:00	00:00	Close	•
6	00:00	00:00	Close	•
7	00:00	00:00	Close	•
8	00:00	00:00	Close	•
9	00:00	00:00	Close	•
10	00:00	00:00	Close	•
Copy to \	Week 🔲 Select All			

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.

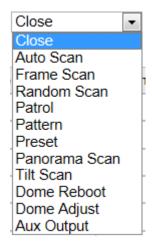


Figure 5-6 Task Types

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

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

5. Click Save to save the settings.

5.5 Configuring Park Actions

Purpose:

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

Note: Scheduled Tasks function is prior to Park Action function. When these two functions are set at the same time, only the Scheduled Tasks function takes effect.

Steps:

Enter the Park Action Settings interface:
 Configuration > Advanced Configuration > PTZ > Park Action

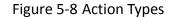
Ba	sic	Limit	Initial Position	Park Action	Privacy Mask	Scl	heduled Tasks	Clear C	onfig		
	V	Enable	Park Action								
	Par	rk Time		5			second				
	Act	ion Typ	e	Auto Scan		-					
										Save	

Figure 5-7 Set the Park Action

2. Check the checkbox of Enable Park Action.

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- 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.



5. Click Save to save the settings.

5.6 Configuring Privacy Mask

Purpose:

Privacy mask enables you to cover certain areas on the live video to prevent certain spots in the surveillance area from being live viewed and recorded.

Steps:

 Enter the Privacy Mask Settings interface: Configuration > Advanced Configuration > PTZ > Privacy Mask

0-28	2012 Tru 16	5:43:08				٣		4	*	##		
	-		1				0	•	D	D		
			1-2		=	*	•	4	0	0		
			See.				_	-(
1	1	RY	2			Pr	eset ()1				
		1 1				Pr	eset ()2				
				A		Pr	eset ()3				
				IPCaner a 64		Pr	eset ()4				
		Constant of the				Pr	eset ()5			-	
Stop) Drawi	ing Clear All									1	
Priv	иасу Ма	isk List							[Ad	d	Delete
١o.		Name		1	ype		En	able				
1		Privacy Mask	:1		gray		▼ Ye	s				
2		Privacy Mask 2	2	9	gray		Ye	s				

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. Click Stop Drawing to finish drawing or click Clear All to clear all of the areas you set without saving them.
- 5. Click Add to save the privacy mask, and it will be listed in the **Privacy**

Mask List area; you can select a mask and click Delete to delete it from the list; you can also define the color of the masks.

No.	Name	Туре	Enable	
1	Privacy Mask 1	gray 💌	Yes	
2	Privacy Mask 2	gray	Yes	

Figure 5-10 Privacy Mask List

gray 💌
gray
red
green
blue
orange
yellow
mosaic

Figure 5-11 Define Mask Color

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

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

5.7 Clearing PTZ Configurations

Purpose:

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

Steps:

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 Save to clear the settings.

Chapter 6 Speed Dome Configuration

6.1 Configuring Local Parameters

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

Steps:

1. Enter the Local Configuration interface:

Configuration > Local Configuration

Local Configuration	

Live View Parameters					
Protocol	TCP	O UDP	MULTICAST	⊚ HTTP	
Live View Performance	Least Delay	Balanced	Best Fluency		
Record File Settings					
Record File Size	256M	512M	🔘 1G		
Save record files to	C:\Users\shoujieyu\\	Browse			
Save downloaded files to	C:\Users\shoujieyu\	Browse			
Picture and Clip Settings					
Save snapshots in live view to	C:\Users\shoujieyu\	Browse			
Save snapshots when playback to	C:\Users\shoujieyu\\	Browse			
Save clips to C:\Users\shoujieyu\Web\PlaybackFiles					
				Sav	

Figure 6-1 Local Configuration Interface

- 2. Configure the following settings:
- Live View Parameters: Set the protocol type, stream type, image size and live view performance.
 - **Protocol Type:** TCP, UDP, MULTICAST and HTTP are selectable.

TCP: Ensures complete delivery of streaming data and better video quality, yet the real-time transmission will be affected.

UDP: Provides real-time audio and video streams.

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

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

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

refer to Section 6.3.1 Configuring TCP/IP Settings.

- Stream Type: Set the stream type to main stream or sub-stream for live view by web browser. Please refer to Section 6.4.1 Configuring Video Settings for the parameter settings of the main stream and sub-stream respectively.
- Image Size: Set the image size to original, 4:3 or 16:9.
- Live View Performance: Set the live view performance to Least Delay, Balanced or Best Fluency.
- **Record File Settings:** Set the saving path of the video files.
 - Record File Size: Select the packed size of manually recorded and downloaded video files. The size can be set to 256M, 512M or 1G.
 - Save record files to: Set the saving path for the manually recorded video files.
 - Save downloaded files to: Set the saving path for the downloaded video files

in 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 Playback interface.

Note: 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**

Device Information Time Sett	ings Maintenance
Time Zone	(GMT-04:30) Caracas
Time Sync.	
© NTP	
Server Address	
NTP Port	
Interval	min.
Manual Time Sync.	
Device Time	2012-06-19T10:56:52
Set Time	2012-06-19T10:55:31
DST	
Enable DST	
Start Time	Apr 🔹 First 🔹 Sun 💌 02 💌 o'clock
End Time	Oct 🔹 Last 🔹 Sun 💌 02 💌 o'clock
DST Bias	30min 💌
	Save

Figure 6-2 Time Settings

• Configuring Time Synchronization by NTP Server

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

Server Address: IP address of NTP server.

NTP Port: Port of NTP server.

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

Time Sync.	
NTP	
Server Address	
NTP Port	
Interval	min.

Figure 6-3 Time Sync by NTP Server

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

network, NTP software can be used to establish a NTP server for time synchronization.

• Configuring Time Synchronization Manually

- (1) Check the Manual Time Sync checkbox.
- (2) Click 🧰 to set the system time from the pop-up calendar.
- (3) Click Save to save the settings.

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

		Jun	2	012		▶ ₩			
Sun	Mon	Tue	Wed	Thu	Fri	Sat			
27		29			1	2			
3	4	5	6	7	8	9			
10	11	12	13	14	15	16			
17	18	19	20	21	22	23	Manual Time Sync.		
24	25	26	27	28	29	30			
1			4		6		Device Time	2012-06-25T21:15:13	
	Time	21	: 14	: 3	+		0.17		
4	P)	Clea	ar i	Today		ок	Set Time	2012-06-25T21:14:03	Sync. with computer time
				,					

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.

Device Information	Time Settings	Maintenance	
Time Zone	(GMT	(+07:00) Bangko	ok, Hanoi, Jakarta 🛛 😽 😽

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) Check Enable DST to enable the DST function.

- (2) Set the date of the DST period.
- (3) Click Save to save the settings.

DST				
Enable DST				
Start Time	Apr 💌 First	▼ Sun	• 02	• o'clock
End Time	Oct 💌 Last	▼ Sun	▼ 02	• o'clock
DST Bias	30min			-



6.3 Configuring Network Settings

6.3.1 Configuring TCP/IP Settings

Purpose:

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

Steps:

1. Enter TCP/IP Settings interface:

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

TCP/IP Port	
NIC Settings	
NIC Type	10M/1000M Auto
IPv4 Address	172.6.21.157
IPv4 Subnet Mask	255.255.255.0
IPv4 Default Gateway	172.6.21.1
DHCP	
Mac Address	00:40:48:96:d4:a3
MTU	1500
Multicast Address	0.0.0.0
DNS Server	
Preferred DNS Server	
	0
	Save

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

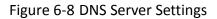
Notes:

- If the DHCP server is available, you can check DHCP to automatically obtain an IP address and other network settings from that server.
- The valid value range of Maximum Transmission Unit(MTU) is 500 ~ 9676. The default value is 1500.
- The Multicast sends a stream to the multicast group address and allows multiple clients to acquire the stream at the same time by requesting a copy from the multicast group address.

Before utilizing this function, you have to enable the Multicast function of your router and configure the gateway of the network speed dome.

• If the DNS server settings are required for some applications (e.g., sending email), you should properly configure the **Preferred DNS Server**.

DNS Server	
Preferred DNS Server	



6.3.2 Configuring Port Settings

Purpose:

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

Steps:

1. Enter the Port Settings interface:

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

TCP/IP	Port
--------	------

Figure 6-9 Port Settings

Save

- 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.
- 3. Click Save

to save the settings.

6.3.3 Configuring PPPoE Settings

Purpose:

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

Steps:

1. Enter the PPPoE Settings interface:

Configuration >Advanced Configuration > Network > PPPoE

CP/IP	Port	DDNS	PPPoE	SNMP	FTP				
V	Enable	PPPoE							
Dyna	amic IP		0.0.	0.0					
User	r Name		test						
Pass	sword		•••	•••••					
Conf	firm		•••	•••••					
									Save



2. Check the Enable PPPoE checkbox to enable this feature.

3. Enter **User Name**, **Password**, and **Confirm** password for PPPoE access. *Note:* The User Name and Password should be assigned by your ISP.

4. Click Save to save and exit the interface.

6.3.4 Configuring DDNS Settings

Purpose:

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

Before you start:

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

Steps:

 Enter the DDNS Settings interface: Configuration > Advanced Configuration > Network > DDNS

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P/IP Port DDNS	PPPOE SNMP FTP	
🗹 Enable DDNS		
DDNS Type	IPServer 💌	
Server Address		
Domain		
Port	0	
User Name		
Password		
Confirm		

Save

Figure 6-11 DDNS Settings

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

Steps:

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

TCP/IP	Port	DDNS	PPPoE	SNMP	FTP				
	Enable	DDNS							
DDM	NS Type		Dyr	IDNS		*			
Sen	er Addre	ess	mer	nbers.dyn	dns.org	g]		
Don	nain		123	.dyndns.or	g]		
Port			80]		
Use	r Name		test						
Pas	sword		•••	•••]		
Con	firm		•••	•••]		
									Save

Figure 6-12 DynDNS Settings

IP Server: Steps:
(1) Enter the Server Address of the IP Server.
(2) Click Save to save the settings. Note: The Server Address should be entered with the static IP address of the

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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.

TCP/IP Port DDNS I	PPPoE SNMP FTP
Enable DDNS	
DDNS Type	IPServer <
Server Address	212.15.13.132

Figure 6-13 IPServer Settings

6.3.5 Configuring SNMP Settings

Purpose:

You can use SNMP to get speed dome status and parameters related information. *Before you start:*

Before setting the SNMP, please use the SNMP software and manage to receive the speed dome information via SNMP port. By setting the Trap Address, the speed dome can send the alarm event and exception messages to the surveillance center. *Note:* The SNMP version you select should be the same as that of the SNMP software.

Steps:

 Enter the SNMP Settings interface: Configuration > Advanced Configuration > Network > SNMP

TCP/IP Port DDNS PP	PoE SNMP FTP
SNMP v1/v2	
Enable SNMP SNMPv1	
Enable SNMP v2c	
Write SNMP Community	private
Read SNMP Community	public
Trap Address	
Trap Port	162
Trap Community	public
SNMP v3	
Enable SNMPv3	
Read UserName	
Security Level	auth, priv
Authentication Algorithm	⊚ MD5 ─ SHA
Authentication Password	
Private-key Algorithm	
Private-key password	
Write UserName	
Security Level	auth, priv
Authentication Algorithm	MD5 SHA
Authentication Password	
Private-key Algorithm	
Private-key password	
SNMP Other Settings	
SNMP Port	161
	Save

Figure 6-14 SNMP Settings

2. Check the corresponding version checkbox (Enable SNMP SNMPv1

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

- Configure the SNMP settings.
 Note: The configuration of the SNMP software should be the same as the settings you configure here.
- 4. Click Save to save and finish the settings.

6.3.6 Configuring FTP Settings

Purpose:

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

Steps:

1. Enter the FTP Settings interface:

Configuration > Advanced Configuration > Network > FTP

P/IP Po	rt DDNS	PPPOE SNMP FTP	
Server Ad	ddress	202.75.221.47	
Port		21	
User Nar	me	test	
Passwor	rd	•••••	
Confirm		••••	
Directory	Structure	Save in the child directory.	
Parent D	irectory	Use Device Name 👻	
Child Dir	rectory	Use Camera Name 👻	
Upload T	Гуре	Upload Picture	



- 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 6-16.

Use Device Name
Use Device Name
Use Device Number
Use Device IP address

Figure 6-16 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 6-17.

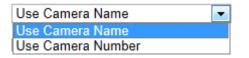


Figure 6-17 Child Directory

- Upload type: To enable uploading the captured picture to the FTP server.
- 3. Click Save to save the settings.

Note: If you want to upload the captured pictures to FTP server, you also have to enable the continuous snapshot or event-triggered snapshot in **Snapshot** interface. For detailed information, please refer to the Section *6.6.8 Configuring Snapshot Settings*.

6.4 Configuring Video and Audio Settings

6.4.1 Configuring Video Settings

Steps:

1. Enter the Video Settings interface:

```
Configuration >Basic Configuration > Video / Audio > Video
Or Configuration > Advanced Configuration > Video / Audio > Video
```

Video	Audio				
S	tream Type	Main Stream(Normal)	•		
V	'ideo Type	Video&Audio	•		
R	Resolution	1280*720P	•		
В	litrate Type	Variable	-		
v	/ideo Quality	Medium	•		
F	rame Rate	25	•		
N	lax. Bitrate	2048		Kbps	
V	ideo Encoding	H.264	•		
I	Frame Interval	0			
					Save

Figure 6-18 Configure Video Settings

2. Select the **Stream Type** of the speed dome to main stream (normal) or sub-stream.

The main stream is usually for recording and live viewing with good bandwidth, and the sub-stream can be used for live viewing when the bandwidth is limited.

Refer to the Section *6.1 Configuring Local Parameters* for switching the main stream and sub-stream for live viewing.

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

Video Type:

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

Resolution:

Select the resolution of the video output.

Bitrate Type:

Select the bitrate type to constant or variable.

Video Quality:

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

Frame Rate:

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

Max. Bitrate:

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

Video Encoding:

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

I Frame Interval:

Set the I-Frame interval from 1 to 400.

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**

Video Audio		
Audio Encoding	G.711ulaw	•

Figure 6-19 Audio Settings

2. Configure the following settings.

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Audio Encoding: G.711ulaw.

3. Click Save to save the settings.

6.5 Configuring Image Settings

6.5.1 Configuring Display Settings

Purpose:

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

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

Steps:

- 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.

Display Settings OSD Settings Text Overlay

-2012 Red 10:24:39	Brightness		6
	Contrast		3
	Saturation		5
A TAY B	Sharpness		
	Focus Mode	Auto	•
	Minimum Focusing	10cm	-
	Exposure Mode	Auto	•
TPCanez a D2	Day/Night Switch	Day	-
	Mirror	Center	•
S MAN	Slow Shutter		
	Slow Shutter Level	Low	•
	Lens Initialization		281 - 2 11
	BLC	Enable	•
	White Balance	Auto	•
	Zoom Limit	18	-
	IR Light Mode	Auto	•
	IR Light Sensitivity		3

Figure 6-20 Display Settings

Brightness

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

Contrast

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

Saturation

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

Sharpness

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

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

Focus Mode

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

- Auto:
- The speed dome focuses automatically at any time according to objects in the scene.
- Semi-auto:
- The speed dome focuses automatically only once after panning, tilting and zooming.
- Manual:

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

Minimum Focusing

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

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

Exposure Mode

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

• Auto:

The iris, shutter and gain values will be adjusted automatically according to the

brightness of the environment.

• Iris Priority:

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

Exposure Mode	Iris Priority	•
Iris	F6.4	-

Figure 6-21 Manual Iris

• Shutter Priority:

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

Shutter	1/25	•

Figure 6-22 Manual Shutter

• Gain Priority:

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

Gain — — — — — — — — — — — — — — — — — — —	20
--	----

Figure 6-23 Manual Gain

• Manual:

In **Manual** mode, you can adjust the values of **Gain**, **Shutter**, **Iris** manually. *Note:* This function varies depending on the models of speed dome.

Day/Night Switch

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

• Auto:

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

Day/Night Switch	Auto	
Sensitivity	Normal	•

Figure 6-24 Auto Mode Sensitivity

• Day:

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

• Night:

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

Mirror

If you turn the **MIRROR** function on, the image will be flipped. It is like the image in the mirror. The flip direction can be set to OFF, LEFT/RIGHT, UP/DOWN or CENTER. *Note:* This function varies depending on the models of speed dome.

Slow Shutter

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

Slow Shutter	<	
Slow Shutter Level	Low	-

Figure 6-25 Slow Shutter

Lens Initialization

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

BLC

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

White Balance

The White Balance mode can be set to Auto, Manual White Balance, Auto Tracing and Onepush.

• Auto:

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

• Manual White Balance:

In **Manual** mode, you can adjust the color temperature manually to meet your own demand as shown in Figure 6-26.

WB Gain Circuit R	0	= 0
WB Gain Circuit B		0

Figure 6-26 Manual White Balance

• Auto Tracing:

In Auto Tracing mode, white balance is continuously being adjusted in real-time

according to the color temperature of the scene illumination.

• Onepush:

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

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

Zoom Limit

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

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

IR Light Mode

IR light mode can be set to Auto and Manual.

- Auto: The brightness of the infrared light will be adjusted automatically. IR Light Sensitivity value ranges from 0 to 100.
- Manual: you need to adjust the brightness value of infrared light manually. IR Light Bright value ranges from 0 to 100.

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

6.5.2 Configuring OSD Settings

Purpose:

The speed dome supports following on screen displays:

Zoom: Identifies the amount of magnification.

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

Time: Supports for time display.

Preset Title: Identifies preset being called.

Camera Name: Identifies the name of speed dome.

You can customize the on screen display of time.

Steps:

1. Enter the OSD Settings interface:

Configuration > Advanced Configuration > Image > OSD Settings

06-23-2012 Tae 39:39 06-26-2012 Ta	e: 35 lesday 09:39:09		 Display Name Display Date Display Week Camera Name 	IPDome2	
		Li dese FPDo	Time Format Date Format Display Mode	24-hour MM-DD-YYYY Not transparent & Not fl	•

Figure 6-27 OSD Settings

- 2. Check the corresponding checkbox to select the display of speed dome name, date or week if required.
- 3. Edit the speed dome name in the text field of **Camera Name**.
- 4. Select from the drop-down list to set the time format, date format and display mode.
- 5. You can use the mouse to click and drag the text frame **Boome2** in the live view window to adjust the OSD position.



Figure 6-28 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
- 2. Check the checkbox in front of textbox to enable the on-screen display.
- 3. Input the characters in the textbox.
- 4. Use the mouse to click and drag the red text frame **text** in the live view window to adjust the text overlay position.
- 5. Click Save

Note: There are up to 4 text overlays configurable.

Display Settings OSD Settings Text Overlay		
Text1	V 1	Text1
Text2 08-20-2312 Tue 00: 17:32	V 2	Text2
	3	
LP Sone2	4	
A PROVINCE		
A A A A A A A A A A A A A A A A A A A		
		Save

Figure 6-29 Text Overlay Settings

6.6 Configuring and Handling Alarms

Purpose:

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

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

6.6.1 Configuring Motion Detection

Purpose:

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

1. Set the Motion Detection Area.

Area Settings

Steps:

(1) Enter the motion detection settings interface

Configuration > Advanced Configuration > Events > Motion Detection (2)Check the checkbox of **Enable Motion Detection**.

Enable Motion Detection

	00-20-2012 Trie 09:52 10
Stop Drawin	n Clear All Sensitivity

Figure 6-30 Enable Motion Detection

(3)Click Draw Area. Click and drag the mouse on the live video image to draw				
a motion detection area.				
Note: You can draw up to 8 motion detection areas on the same image.				
(4)Click Stop Drawing to finish drawing.				
<i>Note:</i> You can click Clear All to clear all of the areas.				



- (5) Move the slider Sensitivity U to set the sensitivity of the detection.
- 2. Set the Arming Schedule for Motion Detection. *Steps:*
 - (1)To edit the arming schedule as shown in Figure 6-32, click Edit in

Figure 6-31.

Arming Schedule

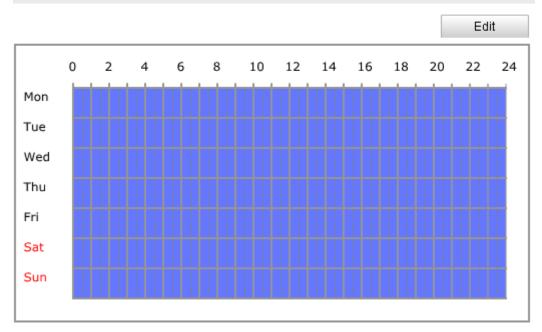


Figure 6-31 Arming Schedule

- (2) Choose the day you want to set the arming schedule as shown in Figure 6-32.
- (3)Click 🔢 to set the time period for the arming schedule.
- (4) After you set the arming schedule, you can click Copy to copy the schedule to other days (Optional).
- (5) Click OK to save the settings.

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

			n erell servere II. eersen 1	Thu Fri	Wed	Tue	Mon
	End Time			art Time	Sta	ł	Period
35 35	24:00	00:00		00	1 00		
1	00: 00	00:00		2 00:00			
影	00: 00			: 00	00		3
法	00: 00	00:00		00		4	
	00: 00	00: 00 35 00: 00 35		3 00:			

Figure 6-32 Arming Time Schedule

3. Set the Alarm Actions for Motion Detection.

Purpose:

Linkage Method

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

•				
Normal Linkage	Other Linkage			
Audible Warning	Trigger Alarm Output 🥅 Select All			
Notify Surveillance Center	🔲 A->1 🕅 A->2			
Send Email				
Upload to FTP				
Trigger Channel				



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

Notify Surveillance Center

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

Send Email

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

Note: To send the Email when an event occurs, you need to refer to Section *6.6.7 Configuring Email Settings* to set the Email parameters.

• Upload to FTP

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

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

• Trigger Channel

Record a video when an event occurs.

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

• Trigger Alarm Output

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

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

6.6.2 Configuring Tamper-proof Alarm

Purpose:

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

Steps:

1. Enter the Tamper-proof Settings interface:

Configuration > Advanced Configuration > Events > Tamper-proof

Enable Tamper-proof



Figure 6-34 Tamper-proof Alarm

2. Check **Enable Tamper-proof** checkbox to enable the tamper-proof detection.

3. Set the tamper-proof area. Refer to *Step 1 Set the Motion Detection Area* in Section *6.6.1 Configuring Motion Detection*.

4. Click Edit to edit the arming schedule for tamper-proof. The arming schedule configuration is the same as the setting of the arming schedule for motion detection. Refer to *Step 2 Set the Arming Schedule for Motion Detection* in Section *6.6.1 Configuring Motion Detection*.

5. Check the checkbox to select the linkage method taken for the tamper-proof. Notify surveillance center, send email and trigger alarm output are selectable. Please refer to *Step 3 Set the Alarm Actions for Motion Detection* in Section *6.6.1 Configuring Motion Detection*.

6. Click Save to save the settings.

6.6.3 Configuring External Alarm Input

Steps:

1. Enter the Alarm Input Settings interface:

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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).
- 3. Edit the name in
 Alarm Name
 to set a

 name for the alarm input (optional).

 Alarm Input No.

 Alarm Name

 Alarm Type

 NO

 IP Address

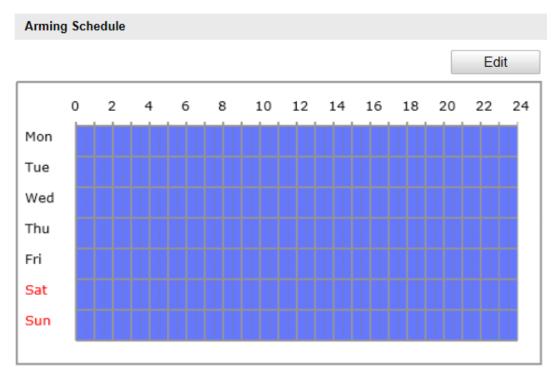


Figure 6-35 Alarm Input Settings

- 4. Click Edit to set the arming schedule for the alarm input. Refer to Step 2 Set the Arming Schedule for Motion Detection in Section 6.6.1 Configuring Motion Detection.
- Check the checkbox to select the linkage method taken for the alarm input. Refer to Step 3 Set the Alarm Actions for Motion Detection in Section 6.6.1 Configuring Motion Detection.
- 6. You can also choose the PTZ linking for the alarm input. Check the relative checkbox and select the No. to enable Preset Calling, Patrol Calling or Pattern Calling.
- 7. You can copy your settings to other alarm inputs.

. . .

8. Click Save to save the settings.

Normal Linkage	Other Linkage		
Audible Warning	Trigger Alarm Output 🔲 Select All		
Notify Surveillance Center	A->1 A->2		
Send Email	PTZ Linking		
Upload to FTP	Preset No.	1	*
Trigger Channel	Patrol No.	1	-
	Pattern No.	1	T

Copy to Alarm		
Select All		
⊠A<-1 □A<-2		

Figure 6-36 Linkage Method

6.6.4 Configuring Alarm Output

Steps:

- Enter the Alarm Output Settings interface: Configuration>Advanced Configuration> Events > Alarm Output
 Select one alarm output channel in the Alarm Output drop-down list.
- 3. Set a name in Alarm Name

for the

alarm output (optional).

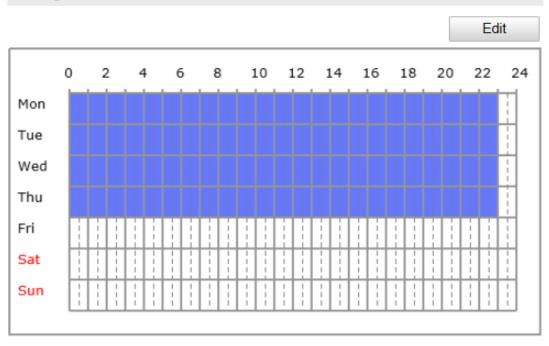
- The Delay time can be set to 5sec, 10sec, 30sec, 1min, 2min, 5min, 10min or Manual. The delay time refers to the time duration that the alarm output remains in effect after alarm occurs.
- 5. Click Edit to enter the **Edit Schedule Time** interface. The time schedule

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.
- 7. Click Save to save the settings.

Alarm Name (cannot copy)	Alarm Output	->1	•
	Alarm Name		(cannot copy)
Delay 5s	Delay	3	•
IP Address Local	IP Address	cal	
Default Status High Level	Default Status	igh Level	Y
Triggering Status Pulse	Triggering Status	ulse	T

Arming Schedule



Copy to Alarm	
Select All	
☑ A->1 🔲 A->2	

Figure 6-37 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:

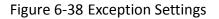
Configuration > Advanced Configuration > Events > Exception

2. Check the checkbox to set the actions taken for the Exception alarm. Refer to

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

Exception Type	HDD Full	•	
Normal Linkage		Other Linkage	
Audible Warning		Trigger Alarm Output 🗐 Select All	
Notify Surveillance Center		A->1 A->2	
Send Email			



3. Click Save to save the settings.

6.6.6 Configuring Email Settings

Purpose:

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

Before you start:

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

Steps:

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

Sender		
Sender		
Sender's Address		
SMTP Server		
SMTP Port	25	
🔲 Enable SSL		
Interval	2s 💽 Attached Image	
Authentication		
User Name		
Password		
Confirm		
Receiver		
Receiver1		
Receiver1's Address		
Receiver2		
Receiver2's Address		
	Say	/0

Figure 6-39 Email Settings

2. Configure the following settings:

Sender: The name of the email sender.

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

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

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

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

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

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

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

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

Receiver: The name of the user to be notified.

Receiver's Address: The email address of user to be notified.

3. Click Save to save the settings.

6.6.7 Configuring Snapshot Settings

Purpose:

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

Basic Settings

Steps:

- Enter the Snapshot Settings interface: Configuration > Advanced Configuration > Events > Snapshot
- 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 6.3.6 Configuring FTP Settings for more

details to configure FTP parameters.

- 2) Check the Enable Timing Snapshot checkbox.
- Upload event-triggered snapshots to FTP

Steps:

1) Configure the FTP settings and check Vpload Picture checkbox in FTP

Settings interface. Please refer to Section *6.3.6 Configuring FTP Settings* for more details to configure FTP parameters.

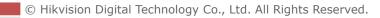
2) Check 🗹 Upload to FTP checkbox in Motion Detection Settings or Alarm Input

interface. Please refer to *Step 3 Set the Alarm Actions Taken for Motion Detection* in Section 6.6.1 Configuring Motion Detection, or Step 4 Configuring External Alarm Input in Section 6.6.1 Configuring Motion Detection.

3) Check the **Enable Event-triggered Snapshot** checkbox.

Timing		
👿 Enable Timing Snapsho	t	
Format	JPEG	•
Resolution	1280*720	•
Quality	High	•
Interval	0	millisecond 💌
Event-Triggered		
Enable Event-Triggered	Snapshot	
Format	JPEG	•
Resolution	1280*720	•
Quality	High	•
Interval	0	millisecond 💌

Figure 6-40 Snapshot Settings



Chapter 7 Record Settings

Before you start:

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

7.1 Configuring NAS Settings

Before you start:

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

Steps:

- 1. Add the network disk
 - (1) Enter the NAS (Network-Attached Storage) Settings interface:

```
Configuration > Advanced Configuration > Storage > NAS
```

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

Figure 7-1 Add Network Disk

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

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

(3) Click Save to add the network disk.

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

- 2. Initialize the added network disk.
 - (1) Enter the HDD Settings interface (Advanced Configuration > Storage > Storage Management), in which you can view the capacity, free space, status, type and property of the disk.
 - (2) If the status of the disk is Uninitialized as shown in Figure 7-2, check the

corresponding checkbox to select the disk and click Format to start initializing the disk.

HDD Device List						
HDD No.	Capacity	Free space	Status	Туре	Property	Progress
☑ 9	0.96GB	0.00GB	Uninitialized	NAS	R/W	

HDD Device List							
IDD No.	Capacity	Free space	Status	Туре	Property	Progress	
. 9	39.06GB	0.00GB	Uninitialized	NAS	R/W	7%	



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

HDD Device List							
HDD No.	Capacity	Free space	Status	Туре	Property	Progress	
9	39.06GB	38.75GB	Normal	NAS	R/W		

Figure 7-4 View Disk Status

Notes:

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

7.2 Configuring Recording Schedule

Purpose:

There are two kinds of recording for the speed domes: manual recording and scheduled recording. For the manual recording, refer to Section **4.4 Recording and Capturing Pictures Manually**. In this section, you can follow the instructions to configure the scheduled recording. By default, the record files of scheduled recording are stored in the SD card (if supported) or in the network disk.

Steps:

1. Enter the Record Schedule Settings interface:

Configuration > Advanced Configuration > Storage > Record Schedule

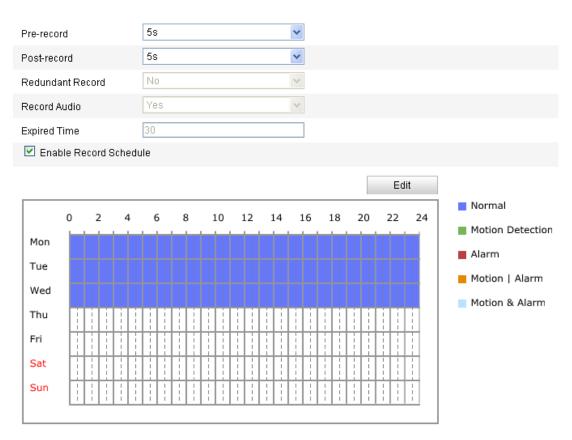


Figure 7-5 Recording Schedule Interface

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

Pre-record	5s	*
Post-record	5s	*
Redundant Record	No	*
Record Audio	Yes	*
Expired Time	30	

Figure 7-6 Record Parameters

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

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

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

• Post-record: The time you set to stop recording after the scheduled time or

the event. For example, if an alarm triggered recording ends at 11:00, and the post-record time is set as 5 seconds, the speed dome records until 11:00:05. The Post-record time can be configured as 5 s, 10 s, 30 s, 1 min, 2 min, 5 min or 10 min.

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

4. Click Edit to edit the record schedule.

O All C	Tue Wed Thu Fri Sat Su	Jn	
Period	Start Time	End Time	Record Type
1	00:00	24:00	🗧 Normal 🛛 🔽
2	00:00	00:00	🗧 Normal 💽
3	00:00	00:00	🗧 Normal 🛛 🖌 🖌
4	00:00	00:00	🗧 Normal 🛛 👻
	Veek 🗌 Select All	Sat Sun Copy	OK Cancel

Figure 7-7 Record Schedule

- 5. Choose the day to set the record schedule.
 - (1) Set all-day record or segment record:
 - If you want to configure the all-day recording, please check the All Day checkbox.
 - If you want to record in different time sections, check the Customize checkbox. Set the Start Time and End Time.

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

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

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

Record Triggered by Motion Detection
 If you select Motion Detection, the video will be recorded when the

motion is detected.

Besides configuring the recording schedule, you have to set the motion detection area and check the checkbox of **Trigger Channel** in the **Linkage Method** of Motion Detection Settings interface. For detailed information, please refer to the *Step 1 Set the Motion Detection Area in the* Section *6.6.1 Configuring Motion Detection*.

• Record Triggered by Alarm

If you select **Alarm**, the video will be recorded when the alarm is triggered via the external alarm input channels.

Besides configuring the recording schedule, you have to set the Alarm Type and check the checkbox of Trigger Channel in the Linkage Method of Alarm Input Settings interface. For detailed information, please refer to Section 6.6.4 Configuring External Alarm Input.

Record Triggered by Motion & Alarm

If you select **Motion & Alarm**, the video will be recorded when the motion and alarm are triggered at the same time.

Besides configuring the recording schedule, you have to configure the settings on the **Motion Detection** and **Alarm Input Settings** interfaces. Please refer to Section **6.6.1** and Section **6.6.4** for detailed information.

Record Triggered by Motion | Alarm

If you select **Motion | Alarm**, the video will be recorded when the external alarm is triggered or the motion is detected.

Besides configuring the recording schedule, you have to configure the settings on the **Motion Detection** and **Alarm Input Settings** interfaces. Please refer to Section **6.6.1** and Section **6.6.4** for detailed information.

Mon ·		un	
	stomize		
Period	Start Time	End Time	Record Type
1	00:00	24:00	Normal 🖌
2	00:00	00: 00	Normal 🔽
3	06 : 00	00:00	Normal 🔽
4	00:00	00: 00	Normal 🔽
	Veek 🗹 Select All	🗸 Sat 🗸 Sun 🔽 Copy	
			OK Cancel

Figure 7-8 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 to save the settings.

Chapter 8 Playback

Purpose:

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

Task 1: To play back the video files



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



Figure 8-1 Playback Interface

2. Select the date and click Search

-		Apr	2	012		▶ ₩	
Sun	Mon	Tue	Wed	Thu	Fri	Sat	
1	2	3	4	5	6	7	
8	9	10	11	12	13	14	
15	16	17	18	19	20	21	
22	23	24	25	26	27	28	
29	30	1	2	3	4	5	
6	7	8	9	10	11	12	
	Q. Search						

Figure 8-2 Search Video

3. Click limit 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

Button	Operation	Button	Operation
×	Play	0	Capture a picture
	Pause	*	Start/Stop clipping video files
	Stop		Audio on and adjust volume/Mute
*	Speed down		Download video files
*	Speed up		Download captured pictures
Status 1 Speed	Display playback status	▲	Playback by frame

Table 8-1 Description of the buttons

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

Drag the progress bar with the mouse to locate the exact playback point. You can

also input the time and click is to locate the playback point in the **Set playback**

time field. You can also click for to zoom out/in the progress bar.

	Set pl	ayback t	ime	
\leq	00	00	00	-

Figure 8-4 Set Playback Time

					2012-0)4-23 09:	57:54				e	\oplus
4:00	05:00	06:00	07:00	08:00	09:00	10 <mark>:00</mark>		12:00	13:00	14:00	15:00	16;
								Comman	ıd 🔲 Sch	iedule 🔳 A	larm 🗖 M	[anual

Figure 8-5 Progress Bar

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

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types as shown in Figure 8-6.

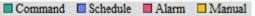


Figure 8-6 Video Types

Task 2: To download the video files

Steps:

1. Click 🔳 on the playback interface. The pop-up menu is shown in Figure 8-7. All

the video files are listed.

No.	File Name	Start Time	End Time	File Size	Progress
1	ch01_0800000000000000000	2012-08-14 10:12:31	2012-08-14 10:30:29	43 MB	
2	ch01_08000000000000100	2012-08-14 10:33:00	2012-08-14 10:43:50	27 MB	
3	ch01_08000000000000200	2012-08-14 10:45:08	2012-08-14 10:56:20	28 MB	
4	ch01_0800000000000301	2012-08-14 11:10:45	2012-08-14 11:11:01	1 MB	
5	ch01_08000000000000401	2012-08-14 11:11:09	2012-08-14 11:11:17	1 MB	
6	ch01_080000000000000000000000000000000000	2012-08-14 11:12:13	2012-08-14 11:12:21	1 MB	
7	ch01_080000000000000000000000000000000000	2012-08-14 11:13:43	2012-08-14 11:14:28	3 MB	
8	ch01_08000000000000701	2012-08-14 11:15:14	2012-08-14 11:15:30	1 MB	
9	ch01_0800000000000801	2012-08-14 11:15:35	2012-08-14 11:16:24	2 MB	
10	ch01_08000000000000901	2012-08-14 11:17:09	2012-08-14 11:17:33	1 MB	
11	ch01_0800000000000001001	2012-08-14 11:17:47	2012-08-14 11:18:03	1 MB	
12	ch01_0800000000001101	2012-08-14 11:20:39	2012-08-14 11:21:03	1 MB	
13	ch01_0800000000001201	2012-08-14 11:24:38	2012-08-14 11:24:54	1 MB	
14	ch01_0800000000001301	2012-08-14 11:25:52	2012-08-14 11:26:01	1 MB	
15	ch01_0800000000001401	2012-08-14 11:27:37	2012-08-14 11:27:54	1 MB	
16	ch01_08000000000001501	2012-08-14 11:28:36	2012-08-14 11:28:44	1 MB	
17	ch01_0800000000001601	2012-08-14 11:28:50	2012-08-14 11:28:58	1 MB	
18	ch01_0800000000001701	2012-08-14 11:29:16	2012-08-14 11:29:32	1 MB	
19	ch01_0800000000001801	2012-08-14 11:34:38	2012-08-14 11:34:54	1 MB	
20	ch01_08000000000001901	2012-08-14 11:42:15	2012-08-14 11:42:24	1 MB	

Download

Total 32 Items First Page Prev Page 1/2 Next Page Last Page

Figure 8-7 Video Downloading interface

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

Notes:

- Progress
- The progress ratio ______ displays the downloading ratio of the video file.
- You can click **Stop** to stop the downloading.
- The total number Total 32 Items displays the amount of the video files.
- The video files are not all listed on one page. You can click

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



Chapter 9 Log Searching

Purpose:

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

Before you start:

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

Steps:

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

🤽 admin 🛶 L	n	Configuratio	Log		Playback	Live View
Search Log	Remote Host IP	Local/Remote User	Channel No.	Minor Type	Major Type	Time
Major Type						
All Types						
Minor Type						
All Types						
Start Time						
2012-06-26 00:00:00						
End Time						
2012-06-26 23:59:59						
Q Search						
Save Log						

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.

Search Log
Major Type
All Types 💌
Minor Type
All Types 💌
Start Time
2012-06-26 00:00:00
End Time
2012-06-26 23:59:59
Q Search

Figure 9-2 Log Searching

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Chapter 10 Others

10.1 Managing User Accounts

Enter the User Management interface:

Configuration > Basic Configuration > Security > User

Or Configuration > Advanced Configuration > Security > User

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

er			
			Add Modify Delete
No.	User Name	Level	
1	admin	Administrator	



• Add a User

Steps:

1. Click Add to add a user.

2. Input the new User Name, select Level and input Password.

Note: The level indicates the permissions you give to the user. You can define the user as **Operator** or **User**.

3. In the **Basic Permission** field and **Camera Configuration** field, you can check or uncheck the permissions for the new user.

4. Click OK to finish the user addition.

Add user				
User Name				
Level	Operator 💌			
Password				
Confirm				
Basic Permission	Camera Config	juration		
Remote: Parameters Se	Remote: Parameters Settings			
Remote: Log Search / I	nterrogate Working Status	Remote: PTZ Control		
Remote: Upgrade / For	mat	Remote: Manual Record		
Remote: Two-way Audio	Remote: Two-way Audio			
Remote: Shutdown / Re				
Remote: Notify Surveilla				
Remote: Video Output 0				
Remote: Serial Port Co	Remote: Serial Port Control			
		ОК	Cancel	

Figure 10-2 Add a User

• Modify a User

Steps:

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

2. Modify the User Name, Level or Password.

OK

- 3. In the **Basic Permission** field and **Camera Configuration** field, you can check or uncheck the permissions.
- 4. Click

to finish the user modification.

tes2				
Operator 💌				
•••••				
•••••				
	Camera Config	juration		
Settings	Remote: Live View			
Interrogate Working Status	Remote: PTZ Control			
rmat	Remote: Manual Record			
Remote: Two-way Audio				
Remote: Shutdown / Reboot				
Remote: Notify Surveillance Center / Trigger Alarm Output				
Remote: Video Output Control				
Remote: Serial Port Control				
	OK	Cancel		
	Operator Operator Operator Settings Interrogate Working Status rmat dio Reboot Ilance Center / Trigger Alarm Output Control	Operator Image: Camera Config Image: Config Camera Config Settings Image: Remote: Li Interrogate Working Status Image: Remote: Pierrent Image: Remote Camera Configure Image: Remote: Pierrent Image: Remote Camera Configure Image: Remote: Pierrent Image: Remote Camera		

Figure 10-3 Modify a User

• Delete a User

Steps:

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

User			
	(Message from webpage	Add Modify Delete
No.	User Name		
1	admin		
2	test	Delete this user?	
		OK Cancel	

Delete

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

User	RTSP Authentication		
Aı	uthentication	basic	
			Save



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

10.3 Viewing Device Information

Enter the Device Information interface:

Configuration > Basic Configuration > System > Device Information

Or Configuration > Advanced Configuration > System > Device Information

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

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

vice Information	ice Information Time Settings Maintenance			
Basic Information	i			
Device Name	Net I	PDOME		
Model	DS-	2XX1-XXX		
Serial No.	DS-	2XX1-XXX0120120516CCWR408523511W		
Firmware Version	V4.0	0.1 120613		
Encoding Version	V5.1	l build 120524		
Number of Channe	els 1			
Number of HDDs	0			
Number of Alarm I	nput 2			
Number of Alarm (Dutput 2			

Save

Figure 10-6 Device Information

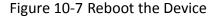
10.4 Maintenance

10.4.1 Rebooting the Speed Dome

Steps:

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

Reboot	
Reboot	Reboot the device.



10.4.2 Restoring Default Settings

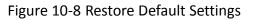
Steps:

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

Note: Clicking Default restores all the parameters to default settings including

the IP address and user information. Please use this button with caution.

Default	
Restore	Reset all the parameters, except the IP parameters and user information, to the default settings.
Default	Restore all parameters to default settings.



10.4.3 Importing/Exporting Configuration File

Steps:

- Enter the Maintenance interface: Configuration > Basic Configuration> System > Maintenance Or Configuration > Advanced Configuration> System > Maintenance
 Click Browse to select the local configuration file and then click Import to start importing configuration file. *Note*: 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.

Import Config. File	
Config File	Browse
Status	
Export Config. File	
Export	

Figure 10-9 Import/Export Configuration File

10.4.4 Upgrading the System

Steps:

 Enter the Maintenance interface: Configuration > Basic Configuration > System > Maintenance

Or Configuration > Advanced Configuration > System > Maintenance

2. Click Browse to select the local upgrade file and then click Upgrade

to start remote upgrade.

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

Remote Upgrade		
Firmware	Browse	Upgrade
Status		

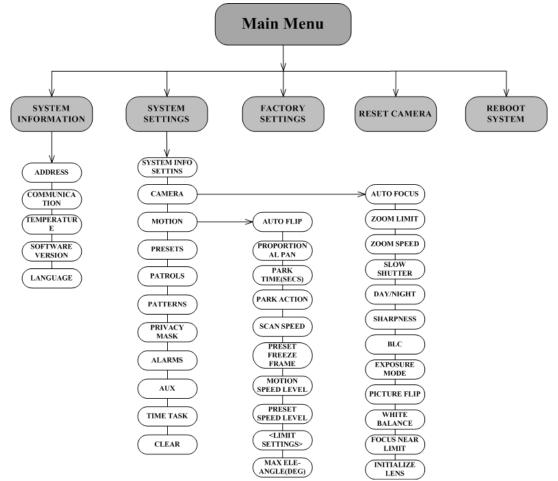
Note : The upgrading process will be 1 to 10 minutes, please don't disconnect power to the device durin

g the process. The device reboots automatically after upgrading.

Figure 10-10 Remote Upgrade

Chapter 11 Menu Tree

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



Appendix

Appendix 1 SADP Software Introduction

• Description of SADP V 2.0

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.

6	0					SADP		_ 0 ×
	<u> </u>	nline Devices	🕡 About					
	() To	tal number of onli	ne devices: 2				Refresh >>	Modify Network Parameters
	ID 🛆	Device Type	IPv4 Address	Port	Software Version	IPv4 Gateway	Serial No.	IP Address:
L	001	DS_2CD862MF	172.6.23.104	8000	V2.0build 120312	0.0.0.0	DS-2CD862F-E0020081008B(Port
Ш	002	TVC-M1220-1-N	172.6.23.231	8000	V3.1.cbuild 120319	172.6.23.1	TVC-M1220-1-N0120120106BI	
Ш								Subnet Mask:
Ш								IPv4 Gateway:
Ш								IPv6 Gateway;
Ш								IPv6 Prefix Length:
Ш								Serial No.:
Ш								Senarivo
Ш								Password Save
								Note:Enter the admin password of the device before you save the network parameters.
l								Restore Default Password
l								Serial code Confirm
								Note: Serial code is a series of characters combined by the start time and the serial number of the device.
U	4						•	

Figure A.1.1 Searching Online Devices

Note: Device can be searched and displayed in the list in 15 seconds after it went

online; it will be removed from the list in 45 seconds after it went offline.

Search online devices manually

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

Note: You can click \square or \square 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 K to show the network parameter panel.

Modify network parameters

Steps:

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



click Save to save the changes.

<u>.</u>					SADP				_ 0 ×
Online De	vices 🥡	About							
	er of online dev					Refresh »	Modify Network Pa	rameters	
Device Type	IPv4 Address	Port	Software Version	IPv4 Gateway	Serial No.		IP Address:	172.6.23.10	4
S_2CD862MF	172.6.23.104	8000	V2.0build 120312	0.0.0.0	DS-2CD862F-E002008		Port:	8000	_
VC-M1220-1-N	172.6.23.231	8000	V3.1.cbuild 120319	172.6.23.1	TVC-M1220-1-N012012	20106BBRR40	Subnet Mask:	255,255,25	5.0
							IPv4 Gateway:	0.0.0.0	
							IPv6 Address:	:	
							IPv6 Gateway:		
							IPv6 Prefix Length:	0	
							Serial No.:	DS-2CD862	2F-E0020081
							Password		Save
							Note:Enter the a device before yo parameters.	admin passwo ou save the ne	ird of the twork
							Restore Default P	assword	
							Serial code		Confirm
							Note: Serial cod combined by the number of the d	e start time an	
4						×			

Figure A.1.2 Modify Network Parameters

Restore default password

Steps:

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

Note: Serial code is a series of characters combined by the start time and the serial number of the device.

2. Input the code in the **Serial code** field and click Confirm to restore the default password.

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:

108M Wireless Router Model No.: TL-WR641G / TL-WR642G	WAN	
 Status Quick Setup Basic Settings Network LAN WAN MAC Clone 	WAN Connection Type: User Name: Password:	PPPoE Dynamic IP Static IP PPPoE 802.1X + Dynamic IP 802.1X + Static IP BigPond Cable L2TP

Figure A.2.1 Select the WAN Connection Type

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

108M Wireless Router Model No.: TL-WR641G / TL-WR642G	LAN	
Status Quick Setup Basic Settings Network LAN	MAC Address: IP Address: Subnet Mask:	00-14-78-6A-DB-0C 192.168.10.1 255.255.255.0
WAN MAC Clone		Save

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.

Notes:

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

Example:

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

Steps:

- As the settings mentioned above, forward the port 80, 8000, 8200~8210 and 554 for the network speed dome at 192.168.1.23
- 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

108M Wireless Router Model No.: TL-WR641G / TL-WR642G	Virtu	al Servers				
Status	ID	Service Port	IP Address		Protocol	Enable
Quick Setup	1	80	192.168.10. 2	3	ALL	× v
Basic Settings + Network	2	8000	192.168.10. 2	3	ALL	× v
Wireless Advanced Settings	3	554	192.168.10. 2	3	ALL	✓
+ DHCP	4	8200	192.168.10. 2	3	ALL	¥ ¥
 Forwarding Virtual Servers 	5	81	192.168.10. 2	4	ALL	v
Port Triggering	6	8001	192.168.10. 24	4	ALL	× ×
• DMZ • UPnP	7	555	192.168.10. 2	:4	ALL	× •
+ Security	8	8201	192.168.10. 2	4	ALL	× ×
Static Routing Dynamic DNS Maintenance System Tools	Common	Service Port:	DNS(53) 🗸	Сору	rto ID 1	*
			Previous Ne	ext C	lear All	Save

Figure A.2.3 Port Mapping

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

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