

5-inch High-definition Network

Speed Dome



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

1. This device may not cause harmful interference.

2. This device must accept any interference received, including interference that may cause undesired operation.

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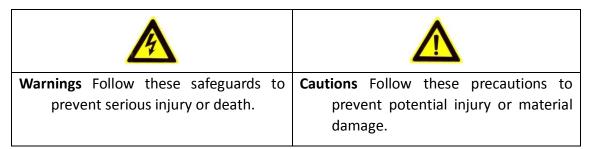
indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: www.recyclethis.info.

Safety Instruction

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

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

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





- Please adopt the power adapter which can meet the safety extra low voltage (SELV) standard. And source with 24VAC±10% or 12VDC±10% (depending on models) according to the IEC60950-1 and Limited Power Source standard. The power consumption cannot be less than the required value.
- Do not connect several devices to one power adapter as an adapter overload may cause over-heating and can be a fire hazard.
- When the product is installed on a wall or ceiling, the device should be firmly fixed.
- To reduce the risk of fire or electrical shock, do not expose the indoor used product to rain or moisture.
- This installation should be made by a qualified service person and should conform to all the local codes.
- Please install blackouts equipment into the power supply circuit for convenient supply interruption.
- If the product does not work properly, please contact your dealer or the nearest service center. Never attempt to disassemble the product yourself. (We shall not assume any responsibility for problems caused by unauthorized repair or maintenance.)



- 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 dome in extremely hot, cold, dusty or damp locations, otherwise fire or electrical shock will occur. The operating temperature should be -30°C ~ 65°C (outdoor speed dome) and -10°C ~ 50°C (indoor speed dome).
- To avoid heat accumulation, good ventilation is required for a proper operating environment.
- While shipping, the product should be packed in its original packing.
- Please use the provided glove when open up the product cover. Do not touch the product cover with fingers directly, because the acidic sweat of the fingers may erode the surface coating of the product cover.
- Please use a soft and dry cloth when clean inside and outside surfaces of the product cover. Do not use alkaline detergents.
- Improper use or replacement of the battery may result in hazard of explosion. Please use the manufacturer recommended battery type.

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Chapter 1 Overview

1.1 System Requirement

System requirement of web browser accessing is as follows: Operating System: Microsoft Windows XP SP1 and above version / Vista / Win7 / Server 2003 / Server 2008 32bits CPU: Intel Pentium IV 3.0 GHz or higher RAM: 1G or higher Display: 1024×768 resolution or higher Web Browser: Internet Explorer 7.0 and above version, Apple Safari 5.02 and above version, Mozilla Firefox 3.5 and above version and Google Chrome8 and above versions.

1.2 Appearance



Figure 1-1 Appearance

1.3 Functions

The functions vary depending on the models of speed dome.

• Limit Stops

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

Scan Modes

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

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• 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.

• 3D Digital Noise Reduction

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

Chapter 2 Network Connection

Before you start:

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

2.1 Setting the Network Speed Dome over the LAN

Purpose:

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



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.

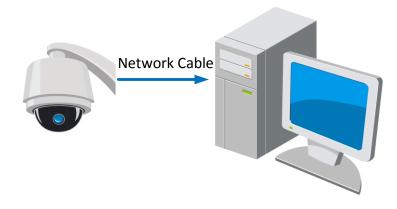


Figure 2-1 Connecting Directly

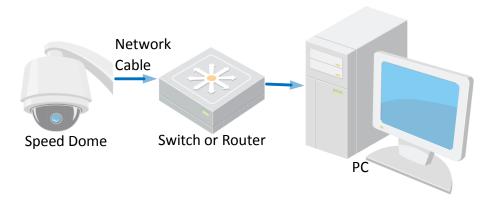


Figure 2-2 Connecting via a Switch or a Router

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.
- 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.



OTE

- 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**.

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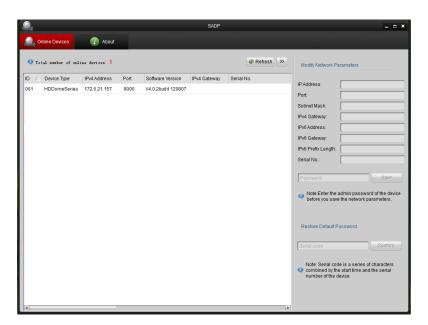


Figure 2-3 SADP Interface

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

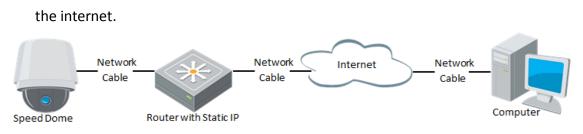


Figure 2-4 Accessing the Speed Dome through Router with Static IP



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.

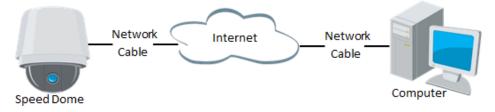


Figure 2-5 Accessing the Speed Dome with Static IP Directly

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.
- 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

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.

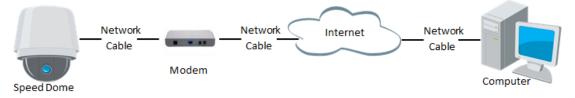


Figure 2-6 Accessing the Speed Dome with Dynamic IP

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

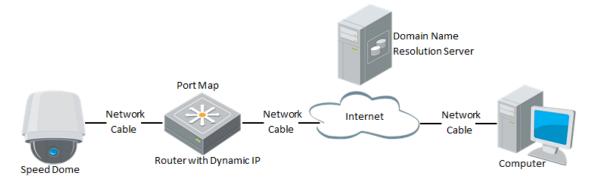


Figure 2-7 Normal Domain Name Resolution

Steps:

- 1. Apply a domain name from a domain name provider.
- 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

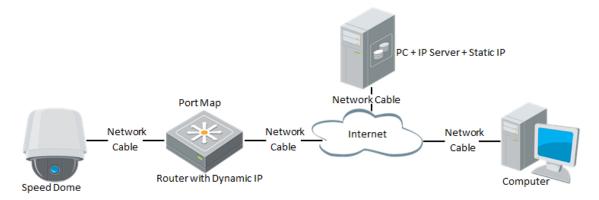


Figure 2-8 Private Domain Name Resolution

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. Select English as the interface language on the top-right of login interface.
- 4. Input the user name and password and click Login

The default user name is admin, password is 12345.

Figure 3-1 Login Interface

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

Live View	Playback	Log	Configuration
43 169 XI	Sub Stream Main Stream	Ş	
Please click here t	o downioad and install th	ie plug-in. Close the brow	rser when installing the plug-in.

Figure 3-2 Download and Install Plug-in

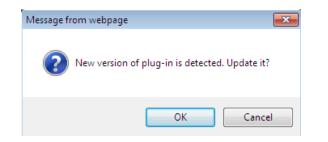


Figure 3-3 Install Plug-in (1)

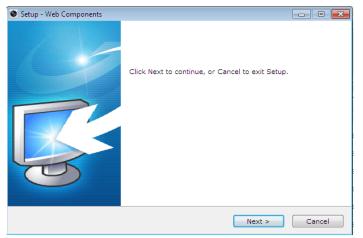


Figure 3-4 Install Plug-in (2)



Figure 3-5 Install Plug-in (3)



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

3.2 Accessing by Client Software

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

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

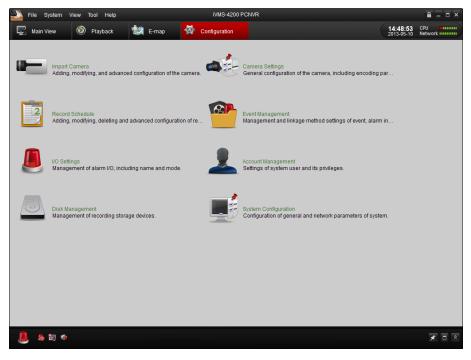


Figure 3-6 iVMS-4200 PCNVR Control Panel

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💫 File System V	iew Tool Help		iVMS-4200 P	CNVR	■ - ■ ×
🖳 Main View	🛞 Playback	🗱 E-map	Configuration		14:46:42 CPU 2013-05-10 Network
View Default View Control C					
Camera Search					
PTZ Control	<u>^</u>			O • ● Ξ	
🦺 🐁 🔄 👳					x = ×

Figure 3-7 iVMS-4200 PCNVR Live View Interface



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

Chapter 4 Live View

4.1 Power-up Action

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

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

Model	XX-2XXXXX-X
ADDRESS	0
COMMUNICATI	ION 0000,0,0,0
SOFTWARE VEI	RSION V000
CAMERA VERS	ION V000
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:

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			
0	Manually capture the pictures					
直	Manual recording off	i i	Manual recording on			
	Audio on and adjust volume		Mute			
¥	Two-way audio off		Two-way audio on			

3D zoom

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

\$

Manual tracking

Full-screen Mode:

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

3D Positioning:

Steps:

 \mathbf{Q}^{3D}

- 1. Click \bigcirc on the tool bar of live view interface.
- 2. Operate the 3D positioning function:
 - Left click a position of the live video. The corresponding position will be moved to the center of the live video.
 - Hold down the left mouse button and drag the mouse to the lower right on

the live video. The corresponding position will be moved to the center of the live video and zoomed in.

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



Manual Tracking:

Before you start:

Please enter the Smart Tracking settings interface and enable smart tracking first. Configuration > Advanced Configuration > PTZ > Smart Tracking Steps:

Click on the tool bar of live view interface. 1.

Left click a moving object in the live video. 2.

The speed dome will track the object automatically.

9

Not all the speed dome models support this function. Please take the browser interface of the actual product as standard.



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.

Q. 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 is to show the PTZ control panel or click is to

hide it.

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

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*	•	4	0	0		
🌾 🛷 🗄 🚳						

Figure 4-4 PTZ Control Panel

Table 4-2 Descriptions of PTZ Control Panel

Button	Description	
* #	Zoom in/out	
	Focus near/far	
00	Iris +/-	
	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	Ó	
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 d to finish the setting of the current preset.
- 4. You can click 💁 to delete the preset.

NOTE You can configure up to 256 presets.



• Calling a Preset:

In the PTZ control panel, select a defined preset from the list and click **2** to call the preset.

*			
Preset 1	+	ø	
Preset 2			
Preset 3			
Preset 4			
Preset 5			
Preset 6			
Preset 7			
Preset 8			
Preset 9			
Preset 10			
Dropot 11			

Figure 4-6 Calling a Preset



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

Table	4-3	Special	Presets

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.

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

Patrol
Preset: Preset 1
Patrol duration 1
Patrol Speed 1
OK Cancel

Figure 4-7 Adding Presets

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

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

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

1	0 T	<u>برا</u>		
Path	01 💌			ω
1	Preset1	1s	1	
82	Preset2	1s	1	
•				

Figure 4-8 Calling a Preset

Buttons	Description
11	Save a patrol
	Call a patrol
	Stop a patrol
•	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.

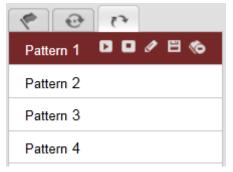


Figure 4-9 Patterns Settings Interface

- 3. Click densate 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.
8	Stop recording a pattern.
	Call the current pattern.
	Stop the current pattern.
\$	Delete the current pattern.



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

4.6 Configuring Live View Parameters

• Main stream/Sub-stream/Third stream:

You can select Main Stream, Sub Stream or Third Stream as the stream type of
live viewing. The main stream is with a relatively high resolution and needs much
bandwidth. The sub-stream is with a low resolution and needs less bandwidth. The
resolution of third stream is between that of main stream and sub stream. 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.

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• Image Size:

You can scale up/down the live view image by clicking 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

Image: space of the	Basic	Limit	Initial Position	Park Action	Privacy Mask	Schedu	led	Tasks		ear Confi	g Sm	nart Tracking
Image: space of the												
Preset 1 Preset 2 Preset 3 Preset 4		6. M	-	REAL	MA		•			*	#	
Preset 1 Preset 2 Preset 3 Preset 4	A	THE	H				•	0	•	đ	ð	1
Preset 1 Preset 2 Preset 3 Preset 4	201				FR ST		*	w	4	0	0	1
Preset 2 Preset 3 Preset 4		in the		TOTA PROPERTY			_	_	_)	+	
Preset 3 Preset 4		78	Not a	A STATUT			Pre	eset 1			^	
Preset 4	1			En la			Pre	eset 2				
	1		As a fill				Pre	eset 3				
Preset 5		183					Pre	eset 4				
	1		A Real P				Pre	eset 5			~	el l
	1	and the second se			Street of the local division of the local di							#4
		Set	Clear	Goto								
Set Clear Goto												

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 Parameter I Canable Proportional Pan Enable Preset Freezing Preset Speed I I I I I I I I I I I I I I I I I I I
Enable Proportional Pan Enable Preset Freezing Preset Speed 4 Keyboard Control Speed Normal Auto Scan Speed 28 PTZ OSD Zoom Status 2s PT Status 2s Preset Status 2s
Enable Preset Freezing Preset Speed 4 Keyboard Control Speed Normal Auto Scan Speed 28 PTZ OSD Zoom Status 2s PT Status 2s Preset Status 2s
Preset Speed 4 Keyboard Control Speed Normal Auto Scan Speed 28 PTZ OSD Zoom Status 2s PT Status 2s Preset Status 2s
Keyboard Control Speed Normal Auto Scan Speed 28 PTZ OSD Zoom Status 2s PT Status 2s Preset Status 2s
Auto Scan Speed 28 PTZ OSD Zoom Status 2s PT Status 2s Preset Status 2s
PTZ OSD Zoom Status 2s PT Status 2s Preset Status 2s
Zoom Status 2s PT Status 2s Preset Status 2s
Preset Status 2s V
Preset Status 2s
Power Off Memory
Set Resume Time Point 30s 💌

Figure 5-2 Basic PTZ Configuration Interface

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

NOTE Preset freezing function is invalid when you calling a pattern.

- Preset Speed: You can set the speed of a defined preset from 1 to 8.
- Keyboard Control Speed: Define the speed of PTZ control by a keyboard as Low, Normal or High.
- Auto Scan Speed: The dome provides 5 scan modes: auto scan, tilt scan, frame scan, random scan and panorama scan. The scan speed can be set from level 1 to 40.

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



5.3 Configuring PTZ Limit Stops

Purpose:

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

Steps:

1. Enter the Limit Configuration interface:

Configuration > Advanced Configuration > PTZ > Limit



Figure 5-3 Configure the PTZ Limit

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

Manual Stops:

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

Scan Stops:

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



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

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



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

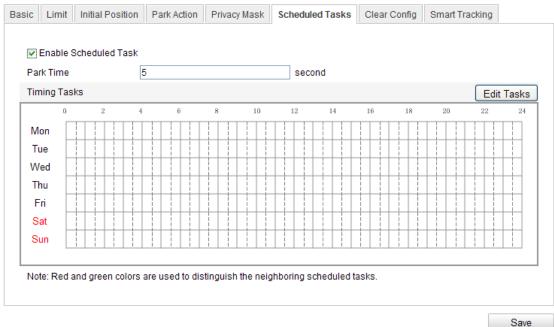


Figure 5-4 Configure Scheduled Tasks

- 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.

Mon Tue Wed Thu Fri Sat Sun All Day Close Customize 								
Period	Start Time	End Time	Task Type		Task Type ID			
1	00:00	00:00	Close	•				
2	10 : 30		Close	•				
3	00:00	00:00	Close	•				
4	00:00	00:00	Close					
5	00:00	00:00	Close	•				
6	00:00	00:00	Close	•				
7	00:00	00:00	Close	-				
8	00:00	00:00	Close					
9	00:00	00:00	Close					
10	00:00	00:00	Close	•				
	Copy to Week Select All Mon Tue Wed Thu Fri Sat Sun Copy							

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.

Close 💌
Close
Auto Scan
Frame Scan
Random Scan
Patrol
Pattern
Preset
Panorama Scan
Tilt Scan
Dome Reboot
Dome Adjust
Aux Output

Figure 5-6 Task Types

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

(6)Click 0K to save the settings.

Ē	
11	NOTE

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

each day.

Save Click to save the settings. 5.

END

5.5 Configuring Park Actions

Purpose:

9

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

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

Steps:

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

Basic	Limit	Initial Position	Park Action	Privacy Mask	Scheduled Tasks	Clear Config	Smart Tracking	
	Enable F	Park Action						
Pa	rk Time		5		second			
Act	ion Type		Auto Scan		¥			
								Save

Figure 5-7 Set the Park Action

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

Auto Scan	•
Auto Scan	
Frame Scan	
Random Scan	
Patrol	
Pattern	
Preset	
Panorama Scan	
Tilt Scan	

Figure 5-8 Action Types

5.	Click	Save	to save the settings.
----	-------	------	-----------------------

5.6 Configuring Privacy Mask

Purpose:

END

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

Steps:

1. Enter the Privacy Mask Settings interface:

Configuration > Advanced Configuration > PTZ > Privacy Mask

		Millitari	-			٣	• •	*	料	#		
-	100	All and a second		FEE	W.	-	0 .	Ø	Ć	q		
f	H	THE I			N.I.S.	4	v 4	0	0	>		
								0		• +		
		State 1				Pres	et 2					
	前方			The section		Pres	et 3					
			No a		To a	Pres	et 4					
1	大平		N			Pres	et 5					
	A CONTRACTOR OF T	Contraction of the second			197.45		1.000					
						Pres	et 6			~		
Stop	p Drawi	ng Clear All				Pres	et 6					
	p Drawi acy Mas					Pres	et 6		[Add	Del	ete
Priv				τ	pe	Pres	et 6 Enable)		Add	Del	ete
		k List	1		pe ellow)		and the second second	Del	ete

Figure 5-9 Draw the Privacy Mask

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

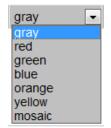


Figure 5-11 Define Mask Color

7. 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.

```
END
```

5.7 Configuring Smart Tracking

Purpose:

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

Steps:

1. Enter the Smart Tracking Settings interface:

```
Configuration > Advanced Configuration > PTZ > Smart Tracking
```

asic	Limit	Initial Position	Park Action	Privacy Mask	Sche	duled	Tasks	CI	ear Confi	g S	smart Tracking
					P858						
		- Million in I	1.2					•	*	#	
1	Lan		FEE			•	0	•	Ø	ð	
P	5 FF	III .	Cin RE			*		4	0	0	
	A PE		P.C.					-			+
						Pre	set 1				
.V	77		13 6			Pre	set 2				
1×	1 and					Pre	set 3				
			and the second			Pre	set 4				
	M	S AN CO				Pre	set 5				~
The second	Section 2			14 A 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1.84	hi					
E	Enable \$	Smart Tracking									
Dur	ation	2	20		S	second					
ſ	Set Zor	om Ratio									
		in ratio									
											Save

Figure 5-12 Configure Smart Tracking

- 2. Check the Enable Smart Tracking check box to enable smart tracking function.
- 3. Click the PTZ buttons to select an object.

- 4. Click Set Zoom Ratio to set the current zoom ratio as the tracking zoom ratio.
- 5. Set the tracking duration. The speed dome stops tracking when the duration time is up. The duration ranges from 0 to 300 seconds.



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

5.8 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

Live View Parameters Protocol	TCP	O UDP	O MULTICAST	O HTTP		
Live View Performance	O Least Delay	 Balanced 	O Best Fluency			
Rules	Enable	🔿 Disable				
Record File Settings						
Record File Size	◯ 256M		🔘 1G			
Save record files to	C:\Documents and S	ettings\shoujieyu\Web\l	RecordFiles	Browse		
Save downloaded files to	C:\Documents and Settings\shoujieyu\Web\DownloadFiles Browse					
Picture and Clip Settings						
Save snapshots in live view to	C:\Documents and S	ettings\shoujieyu\Web\(CaptureFiles	Browse		
Save snapshots when playback to	C:\Documents and S	ettings\shoujieyu\Web\l	PlaybackPics	Browse		
Save clips to	C:\Documents and S	ettings\shoujieyu\Web\ł	PlaybackFiles	Browse		

Figure 6-1 Local Configuration Interface

- 2. Configure the following settings:
- Live View Parameters: Set the protocol type, stream type, image size and live view performance.
 - Protocol Type: TCP, UDP, MULTICAST and HTTP are selectable.
 TCP: Ensures complete delivery of streaming data and better video quality, yet the real-time transmission will be affected.
 UDP: Provides real-time audio and video streams.
 HTTP: Allows the same quality as of TCP without setting specific ports for

streaming under some network environments.

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

when using the Multicast function. For other information about Multicast, refer to Section *6.3.1 Configuring TCP/IP Settings*.

 Live View Performance: Set the live view performance to Least Delay, Balanced or Best Fluency.

in

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

- **Rules:** You can enable or disable the rules of dynamic analysis for motion here.
- 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

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
 Live View

pictures in ______ 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.

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

3. Click Save to save the settings.

END

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 Set	ttings Maintenance
Time Zone	(GMT+08:00) Beijing, Urumqi, Singapore
Time Sync.	
© NTP	
Server Address	
NTP Port	
Interval	min.
Manual Time Sync.	
Device Time	2012-10-30T21:51:37
Set Time	2012-10-30T21:51:01
	Save

Figure 6-2 Time Settings

• Configuring Time Synchronization by NTP Server

Steps:

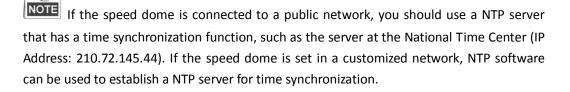
- (1) Check the radio button to enable the NTP function.
- (2) Configure the following settings:
 - Server Address: IP address of NTP server.

NTP Port: Port of NTP server.

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

Time Sync.		
INTP		
Server Address		
NTP Port	123	
Interval	0	min.

Figure 6-3 Time Sync by NTP Server



END

• Configuring Time Synchronization Manually *Steps:*

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

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

-		Feb	2	013		▶ ₩			
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	Manual Time Sync.		
24	25	26	27	28					
	4		6				Device Time	2012-06-25T21:15:13	
4	THIC	14 :		: 10 Foday	•	ЭК	Set Time	2012-06-25T21:14:03	Sync. with computer tin

Figure 6-4 Time Sync Manually



Select the Time Zone

Purpose:

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

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

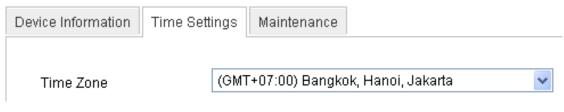


Figure 6-5 Time Zone Settings

• Configuring Daylight Saving Time (summer time) *Purpose:*

If there is the habit of adjusting clocks forward in your country in certain time period of a year, you can turn this function on. The time will be adjusted

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automatically when the Daylight Saving Time(DST) comes.

Steps:

(1) Enter the DST interface by Configuration > Advanced Configuration > System > DST

- (2) Check \square Enable DST to enable the DST function.
- (3) Set the date of the DST period.
- (4) 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	•

Figure 6-6 DST Settings



6.3 Configuring Network Settings

6.3.1 Configuring TCP/IP Settings

Purpose:

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

Steps:

 Enter TCP/IP Settings interface: Configuration > Basic Configuration > Network > TCP/IP Or Configuration > Advanced Configuration > Network > TCP/IP

тс	P/IP Port			
	NIC Settings			
	NIC Type	Auto 💌		
	DHCP			
	IPv4 Address	172.8.4.166		
	IPv4 Subnet Mask	255.255.255.0		
	IPv4 Default Gateway	172.8.4.1		
	IPv6 Mode	Route Advertisement	View Route Advertisement	
	IPv6 Address			
	IPv6 Subnet Mask			
	IPv6 Default Gateway			
	Mac Address	8cte7:48:d9:b1:4c		
	MTU	1500		
	Multicast Address			
	DNS Server			
	Preferred DNS Server	8.8.8.8		
	Alternate DNS Server			
				Save



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



- 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** and **Alternate DNS server**.

DNS Server	
Preferred DNS Server	8.8.8.8
Alternate DNS Server	

Figure 6-8 DNS Server Settings

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

END

6.3.2 Configuring Port Settings

Purpose:

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

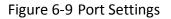
Steps:

1. Enter the Port Settings interface:

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

TCP/IP	Port	
HTTP	P Port	80
RTS	P Port	554
HTTF	PS Port	443
Serve	er Port	8000

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.
 HTTPS Port: The default port number is 443.
 SDK Port: The default port number is 8000.

3. Click Save to save the settings.

END

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:
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Configuration > Advanced Configuration > Network > PPPoE

TCP/IP	Port	DDNS	PPPoE	SNMP	802.1X	QoS	FTP	NAT	Email		
🖌 E	Enable F	PPoE									
Dyn	amic IP		0.0	.0.0							
Use	er Name										
Pas	sword										
Con	nfirm										
											_
											Save

Figure 6-10 PPPoE Settings

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

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:

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

CP/IP Port DDNS	PPPoE SNMP 802.1X QoS FTP NAT Email	
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. Three DDNS types are selectable: IPServer, HiDDNS, NO-IP and DynDNS.
 - DynDNS:

Steps:

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

TC	P/IP	Port	DDNS	PPPoE	SNMP	802.1X	QoS	FTP	NAT	Email			
	🖌 Ei	nable D	DNS										
	DDN	IS Type		Dy	nDNS			~					
	Serve	er Addr	ess	me	mbers.dy	ndns.org							
	Dom	ain		12	3.dyndns.	org							
	Port			0									
	User	r Name		tes	t								
	Pass	sword		••	••••								
	Conf	firm		••	••••								
												_	

Save

Figure 6-12 DynDNS Settings

IP Server:

Steps:

- (1) Enter the Server Address of the IP Server.
- (2) Click save the settings.
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The **Server Address** should be entered with the static IP address of the computer that runs the IP Server software. For the IP Server, you have to apply a static IP, subnet mask, gateway and preferred DNS from the ISP.



Figure 6-13 IPServer Settings

• HiDDNS:

Steps:

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

TCP/IP Port DDNS PPP	OE SNMP 802.1X QoS FTP NAT Email							
Enable DDNS								
DDNS Type	HIDDNS							
Server Address	www.hik-online.com							
Domain	423315940							
Port	0							
User Name								
Password								
Confirm								

Figure 6-14 HiDDNS Settings

• NO-IP:

Steps:

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



6.3.5 Configuring SNMP Settings

Purpose:

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

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

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

Steps:

1. Enter the SNMP Settings interface:

Configuration > Advanced Configuration > Network > SNMP

TCP/IP Port DDNS	PPPoE SNMP 802.1X QoS FTP NAT Email
SNMP v1/v2	
Enable SNMPv1	
Enable SNMP v2c	
Write SNMP Commu	ity private
Read SNMP Commu	ity public
Trap Address	
Trap Port	162
Trap Community	public
SNMP v3	
Enable SNMPv3	
Read UserName	
Security Level	no auth, no priv
Authentication Algorit	m MD5 SHA
Authentication Passv	ord
Private-key Algorithm	● DES ○AES
Private-key password	
Write UserName	
Security Level	no auth, no priv 🗸
Authentication Algorit	m
Authentication Passv	ord
Private-key Algorithm	● DES ○ AES
Private-key password	
SNMP Other Setting	
SNMP Port	161
	Save

Figure 6-15 SNMP Settings

2. Check the corresponding version checkbox (Enable SNMP SNMPv1,

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

3. Configure the SNMP settings.

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

4. Click Save to save and finish the settings.

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6.3.6 Configuring 802.1X Settings

Purpose:

The speed dome supports IEEE 802.1X standard.

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

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

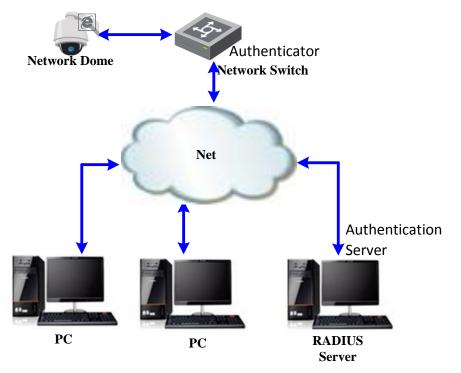


Figure 6-16 Protected LAN

- Before connecting the Network Camera to the protected LAN, please apply a digital certificate from a Certificate Authority.
- The network camera requests access to the protected LAN via the

authenticator (a switch).

- The switch forwards the identity and password to the authentication server(RADIUS server).
- The switch forwards the certificate of authentication server to the network camera.
- If all the information is validated, the switch allows the network access to the protected network.

Steps:

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

Configuration > Advanced Configuration > Network > 802.1X

	IP I	Port	DDNS	PPPoE	SNMP	802.1X	QoS	FTP	NAT	Email
Ŀ	🖌 En	able II	EEE 802.1	1X						
F	Protoc	ol		EA	P-MD5			\sim		
E	EAPOL	L versi	ion	1				*		
U	Jser N	Vame								
F	assv	vord								
C	Confin	m								

Save

Figure 6-17 802.1X Settings

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

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

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

NOTE The camera reboots when you save the settings.

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

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6.3.7 Configuring QoS Settings

Purpose:

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

Steps:

1. Enter the QoS Settings interface:

Configuration >Advanced Configuration > Network > QoS

				FTP	NAT	Email
Video/A	udio DSCP	0				
Event/Al	larm DSCP	0				
Management DSCP		0				

Figure 6-18 QoS Settings

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

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

3. Click Save to save the settings.

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l	NOTE

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



6.3.8 Configuring FTP Settings

Purpose:

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

Steps:

1. Enter the FTP Settings interface:

Configuration > Advanced Configuration > Network > FTP TCP/IP Port DDNS PPPoE SNMP 802.1X QoS FTP NAT Email 201.34.117.34 Server Address Port 21 User Name Anonymous test Password Confirm Directory Structure Save in the root directory. ¥ Parent Directory Use Device Name Child Directory Use Camera Name Upload Type Upload Picture Save

Figure 6-19 FTP Settings

- 2. Configure the FTP settings, including server address, port, user name, password, directory and upload type.
 - Setting the directory in FTP server for saving files: In the Directory Structure field, you can select the root directory, parent directory and child directory.
 - **Root directory**: The files will be saved in the root of FTP server.
 - ◆ Parent directory: The files will be saved in a folder in FTP server. The name of folder can be defined as shown in following Figure 6-20.

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

Figure 6-20 Parent Directory

Child directory: It is a sub-folder which can be created in the parent directory. The files will be saved in a sub-folder in FTP server. The name of folder can be defined as shown in following Figure 6-21.

Use Camera Name	-
Use Camera Name	
Use Camera Number	

Figure 6-21 Child Directory

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

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



6.3.9 Configuring NAT Settings

UPnP

Universal Plug and Play (UPnP) is a networking architecture that provides compatibility among networking equipment, software and other hardware devices. With the UPnP function enabled, you don't need to configure the port mapping for each port, and the camera is connected to the Wide Area Network via the router. *Steps:*

1. Enter the UPnP settings interface.

Configuration >Advanced Configuration > Network > NAT

2. Check the Enable UPnP checkbox

3. Add a Friendly Name.

CP/IP	Port	DDNS	PPP0E	SNMP	802.1X	QoS	FTP	NAT	Email		
▼ E	nable UI	PnP™									
Frier	ndly Nam	ne	HIK	VISION D	S-2DF727	5-AH - 4	42331				
Port	Mappin	g									
🖌 E	nable Po	ort Mappir	ng								
Port	Mapping	Mode	Auto	D			*				
		Port Typ	е	Exte	rnal Port		Router	WAN	IP	Status	
		HTTP		80			0.0.0.0			Not Valid	
 Image: A start of the start of		HTTP RTSP		80 554			0.0.0.0			Not Valid Not Valid	

Save

Figure 6-22 Configure UPnP Settings

4. Click Save to save the settings.

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• Port Maping

Steps:

- 1. Check the Enable Port Mapping checkbox
- 2. Select the Port Mapping Mode as Auto or Manual.
- 3. If in Manual mode, you can check the checkbox of **HTTP**, **RTSP** or **SDK** port according to your demand.
- 4. Click Save to save the settings.



6.3.10Configuring Email Settings

Purpose:

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

Before you start:

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

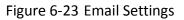


Steps:

1. Enter the Email Settings interface:

Configuration > Advanced Configuration > Network > Email

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



 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.



6.4 Configuring Video and Audio Settings

6.4.1 Configuring Video Settings

Steps:

Enter the Video Settings interface:
 Configuration > Basic Configuration > Video / Audio > Video
 Or Configuration > Advanced Configuration > Video / Audio > Video

Stream Type Main Stream(Normal) Video Type Video&Audio Resolution 1920*1080P Bitrate Type Constant Video Quality Medium Frame Rate 25 Max. Bitrate 6144 Kbps Video Encoding H.264 Profile High Profile I Frame Interval 25	Vi	deo	Audio				
Video Type Video&Audio Resolution 1920*1080P Bitrate Type Constant Video Quality Medium Frame Rate 25 Max. Bitrate 6144 Kbps Video Encoding H.264 Profile High Profile I Frame Interval 25							
Resolution 1920*1080P Bitrate Type Constant Video Quality Medium Frame Rate 25 Max. Bitrate 6144 Kbps Video Encoding H.264 Profile High Profile I Frame Interval 25		Stre	eam Type	Main Stream(Normal)	•		
Bitrate Type Constant Video Quality Medium Frame Rate 25 Max. Bitrate 6144 Kbps Video Encoding H.264 Profile High Profile I Frame Interval 25		Vid	ео Туре	Video&Audio	•		
Video Quality Medium Frame Rate 25 Max. Bitrate 6144 Kbps Video Encoding H.264 Profile High Profile I Frame Interval 25		Res	solution	1920*1080P	•		
Frame Rate 25 Max. Bitrate 6144 Kbps Video Encoding H.264 Profile High Profile I Frame Interval 25		Bitr	rate Type	Constant	•		
Max. Bitrate 6144 Kbps Video Encoding H.264 Profile High Profile I Frame Interval 25		Vid	eo Quality	Medium	Ŧ		
Video Encoding H.264 Profile High Profile I Frame Interval 25		Fra	me Rate	25	•		
Profile High Profile I Frame Interval 25		Ma	x. Bitrate	6144		Kbps	
I Frame Interval 25		Vid	eo Encoding	H.264	•		
		Pro	file	High Profile	•		
Save		l Fr	ame Interval	25			
Save							
Save							
							Save

Figure 6-24 Configure Video Settings

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

The main stream is usually for recording and live viewing with good bandwidth, and the sub-stream can be used for live viewing when the bandwidth is limited. Refer to the Section **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, sub-stream or third stream:

Video Type:

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

Resolution:

Select the resolution of the video output.

Bitrate Type:

Select the bitrate type to constant or variable.

Video Quality:

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

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

Max. Bitrate:

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

Video Encoding:

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

Profile:

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

I Frame Interval:

Set the I-Frame interval from 1 to 400.

4. Click Save to save the settings.

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6.4.2 Configuring Audio Settings

Steps:

Enter the Audio Settings interface
 Configuration > Basic Configuration > Video / Audio > Audio
 Or Configuration > Advanced Configuration > Video / Audio > Audio

Video Audio	
Audio Encoding	G.711ulaw
	G.711ulaw G.711alaw G.726

Figure 6-25 Audio Settings

- Configure the following settings.
 Audio Encoding: G.711ulaw, G.711alaw and G.726 selectable.
- 3. Click Save to save the settings.



6.4.3 Configuring ROI Settings

Before you start:

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

Stream Type:

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

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

eo Audio ROI								
and Sitters.				•	*	耕		
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an and					,	_	F)	
and the second		Pr	eset 1				~	
	We want the	Pr	eset 2					
and and		Pr	eset 3					
		Pre	eset 4					
		Pr	eset 5				-	
Draw Area Cle	ar All							
Stream Type								
Stream Type	Main Stream(Normal)							
Fixed Region								
Enable								
Region No.	1							
Enhance the level	3							
Region Name								
Dynamic Tracking								
Enable								
Enhance the level	6							
								Save

Figure 6-26 Region of Interest



• **Dynamic Tracking:** The center area of the tracking scene is specified ROI function by default. When the speed dome starts smart tracking, the quality in the image center is enhanced.

Steps:

- 1. Check the check box of **Enable** under **Dynamic Tracking**.
- 2. Adjust the **Enhance the level** from 1 to 6. The higher the value, the better the ROI quality.
- 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.



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

Steps:

1. Enter the Display Settings interface:

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

2. Set the image parameters of the speed dome.



Display Settings

	Brightness		
			50
H mmp	Contrast		60
	Saturation		50
	Limit Gain		94
	Sharpness		35
	Focus Mode	Semi-auto 💌	1
	Min. Focus Distance	1m 💌	
	Exposure Mode	Auto	
	Video Standard	50hz 💉	
	Day/Night Switch	Auto	P
H AND	Sensitivity	Normal	
	Mirror	OFF 💌	
	Slow Shutter		
	Slow Shutter Level	Low	
	WDR	OFF 💌	
	Lens Initialization		
	BLC	OFF 💌	
	White Balance	Auto	P
	Digital Noise Reduction	ON 💌	
	Noise Reduction Level		50
	Defog Mode	OFF 💌	ĺ.
	Zoom Limit	30 🛩	B
	Chroma Suppress		60
	HLC	OFF 💌	
	Local Output	ON 💌	

Figure 6-27 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.

Limit Gain

This feature is used to adjust gain 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

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.

Min. Focus Distance

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



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 6-28 Manual Iris

• Shutter Priority:

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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 6-29 Manual Shutter

• Gain Priority:

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



Figure 6-30 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.

Video Standard

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

NOT

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 6-31 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.

• Schedule

In **Schedule** mode, you can set the time schedule for day mode as shown in Figure 6-32. The rest time out of the schedule is for night mode.

Day/Night Switch	Schedule	*
Start Time	07:00:00	
End Time	18:00:00	

Figure 6-32 Day Night Schedule

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.

This function varies depending on the models of speed dome.

WDR (Wide Dynamic Range)

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

You can enable or disable the WDR function as shown in Figure 6-33. The wide dynamic level ranges from 0 to 100.

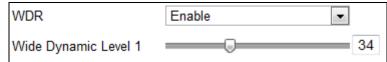


Figure 6-33 WDR

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	V	
Slow Shutter Level	Low	-

Figure 6-34 Slow Shutter

Lens Initialization

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

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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, MWB, Outdoor, Indoor, Fluorescent Lamp, Sodium Lamp and Auto-Track.

• Auto:

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

• Manual White Balance:

In **MWB** mode, you can adjust the color temperature manually to meet your own demand as shown in Figure 6-35.

WB Gain Circuit R	0	0
WB Gain Circuit B		0

Figure 6-35 Manual White Balance

Outdoor

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

• Indoor

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

• Fluorescent Lamp

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

• Sodium Lamp

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

Auto-Track

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

This function varies depending on the models of speed dome.

3D Digital Noise Reduction

You can enable or disable the 3D **Digital Noise Reduction** function as shown in Figure 6-36. The level ranges from 0 to 100.

Digital Noise Reduction	Normal Mode	•
Noise Reduction Level		50

Figure 6-36 3D Digital Noise Reduction



This function varies depending on the models of speed dome.

De-fog Mode

When there is fog in the image, you can enable this function to get clear image.

Zoom Limit

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

This function varies depending on the models of speed dome.

Chroma Suppress

The Chroma Suppress level ranges from 0 to 100 as shown in Figure 6-37.

Chroma Suppress		61
-----------------	--	----

Figure 6-37 Chroma Suppress

NOT

This function varies depending on the models of speed dome.

HLC

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

Local Output

You can select the output mode to ON or OFF.

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.

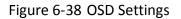
You can customize the on screen display of time.

Steps:

Enter the OSD Settings interface:
 Configuration > Advanced Configuration > Image > OSD Settings

-1-1-	the second	Les I	C A	Display Date		
A THE	I			Display Week		
				Camera Name	IPdome	
I Say in				Time Format	24-hour	*
he -	A ANTA			Date Format	YYYY-MM-DD	*
		Mar Sa		Display Mode	Not transparent & Not flash	*
			Contract of	OSD Size	32*32	*
			Carlos Carlos			

Save



- 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 **Come2** in the live view window to adjust the OSD position.





Figure 6-39 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:

1. Enter the Text Overlay Settings interface:

Configuration > Advanced Configuration > Image > Text Overlay

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

```
NOTE There are up to 8 text overlays configurable.
```

				✓ 1	Text 1	
	and the second	A.		2	Text 2	
AL T	THH			3		
	Text	Text 2		4		
CHAR -	Carlos a	D		5		
The state		P A		6		
A sector	- State		. Silween	7		
ACT I	U Xen	WIL	and the set	8		
	HAY SA					
	the first		1 cm			

Figure 6-40 Text Overlay Settings



6.6 Configuring and Handling Alarms

Purpose:

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

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

6.6.1 Configuring Motion Detection

Purpose:

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

Steps:

1. Set the Motion Detection Area.

Steps:

(1) Enter the motion detection settings interface

Configuration > Advanced Configuration > Events > Motion Detection

(2) Check the checkbox of Enable Motion Detection.

2.

- Enable Motion Detection
- Enable Dynamic Analysis for Motion



Figure 6-41 Enable Motion Detection

(3) Click Draw Area. Click and drag the mouse on the live video image to drav
a motion detection area.
You can draw up to 8 motion detection areas on the same image.
(4) Click Stop Drawing to finish drawing.
NOTE You can click Clear All to clear all of the areas.
(5) Move the slider Sensitivity detection.
Set the Arming Schedule for Motion Detection. <i>Steps:</i>
-
(1) To edit the arming schedule as shown in Figure 6-43, click
Figure 6-42.

Arming Schedule

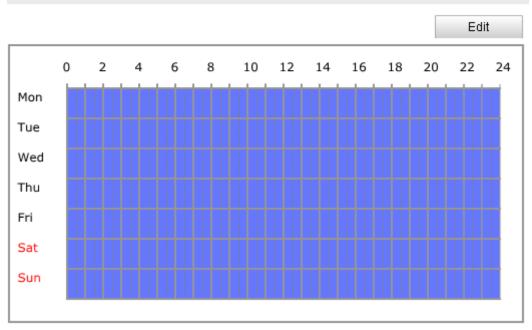


Figure 6-42 Arming Schedule

(2) Choose the day you want to set the arming schedule as shown in Figure 6-43.

(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.

Q.

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

End Time							
14							
35							
影							
*							

Figure 6-43 Arming Time Schedule

3. Set the Alarm Actions for Motion Detection.

Purpose:

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

Linkage Method	
Normal Linkage	Other Linkage
Notify Surveillance Center	Trigger Alarm Output 🔄 Select All
🗌 Send Email	A->1 A->2
Upload to FTP	
Trigger Channel	

Figure 6-44 Linkage Method

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

Notify Surveillance Center

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

Send Email

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

To send the Email when an event occurs, you need to refer to Section **6.3.10 Configuring Email Settings** to set the Email parameters.

Upload to FTP

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



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

Trigger Channel

Record a video when an event occurs.

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

• Trigger Alarm Output

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

To trigger an alarm output when an event occurs, please refer to Section

6.6.5 Configuring Alarm Output to set the alarm output parameters.

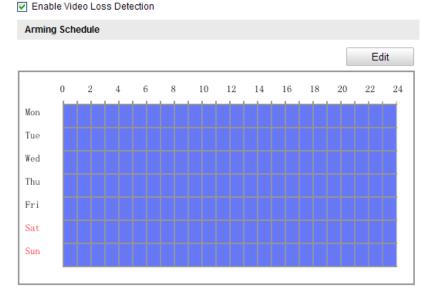


6.6.2 Configuring Video Loss Alarm

Steps:

1. Enter the Video Loss Setting interface:

Configuration > Advanced Configuration > Events > Video Loss



Linkage Method										
Normal Linkage	Other Linkage									
Notify Surveillance Center	Trigger Alarm Output 🔄 Select All									
Send Email	A->1 A->2									

Figure 6-45 Video Loss

2. Check the **Enable Video Loss Detection** checkbox to enable the video loss detection.

3. Click Edit to edit the arming schedule for video loss detection. 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.*

4. Check the checkbox to select the linkage method taken for the video loss alarm. Notify surveillance center, send email and trigger alarm output are selectable. Please *Step 3 Set the Alarm Actions for Motion Detection* in *Section 6.6.1*.

5. Click Save to save the settings.

END

6.6.3 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:
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Configuration > Advanced Configuration > Events > Tamper-proof



Figure 6-46 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.



6.6.4 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									
	name for the alarm inp	ut (optional).								
	Alarm Input No.	A<-1	•							
	Alarm Name									
	Alarm Type	NO	•							

																							Ed	lit
	0		2		1	e	3	8	3		10	J	2]	4]	16	1	8	1	20	1	22	2
Mon		ŀ	Ī	ŀ						ŀ														-
Tue					1	-		1		1	-									1	1	1		
Wed		ŀ	ŀ	:			1	1	:	-		-			-	1			1	1	1			1
Thu	Ì	İ	İ	ŀ	ł	-			ł		-	-			-		1	-					1	1
Fri			İ		- - - -		- - - -	- - - -				- - - -	- - - -		-	- - - - -	- - - -		- - - -	- - - -	- - - -	- - - -		- - - - -
Sat																								
Sun												-	 	- I - I - I		 			 			1	 	1

Figure 6-47 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.

Linkage Method			
Normal Linkage	Other Linkage		
Notify Surveillance Center	Trigger Alarm Output 🔲 Select	All	
Send Email	A->1 A->2		
Upload to FTP	PTZ Linking		
Trigger Channel	Preset No.	1	~
	Patrol No.	1	~
	Pattern	1	\sim

Copy to Alarm

Select All	
A<-1 A<-2 A<-3 A<-4 A<-5 A<-6	
A<-7	

Figure 6-48 Linkage Method

END

6.6.5 Configuring Alarm Output

Steps:

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

for the

alarm output (optional).

- 4. The **Delay** time can be set to **5sec**, **10sec**, **30sec**, **1min**, **2min**, **5min**, **10min** or **Manual**. The delay time refers to the time duration that the alarm output remains in effect after alarm occurs.
- 5. Click 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 Output	A->1
Alarm Name	alarmout
Delay	Manual

Arming Schedule

																							Ed	lit	
	0	2	2	4	ł	6		8	3]	0]	12		14	1	6	1	8	2	20	2	22	24	1
Mon							- - - -										Ì	- - - -							
Tue										- - - -			- 				- - - - -								
Wed																									
Thu					-		-		 					 			 	 				 			
Fri							-			-	-							1							
Sat		i	i I	1			1	1			1	1		- -	-	i	!	1	1			1	I I	i	
Sun							1										 	1							

Copy to Alarm

- Select All
- √ A->1

Figure 6-49 Alarm Output Settings



6.6.6 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

 Check the checkbox to set the actions taken for the Exception alarm. Refer to Step 3 Set the Alarm Actions Taken for Motion Detection in Section 6.6.1 Configuring Motion Detection.

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Exception Type	HDD Full	~
Normal Linkage		Other Linkage
Notify Surveillance Ce	nter	Trigger Alarm Output Select All
Send Email		A->1 A->2

Figure 6-50 Exception 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:

Q.

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.

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.

83

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

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

Figure 7-4 View Disk Status



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



7.2 Configuring Recording Schedule

Purpose:

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

Steps:

1. Enter the Record Schedule Settings interface:

Configuration > Advanced Configuration > Storage > Record Schedule

Pre-record	5s 💌
Post-record	5s 💌
Overwrite	Yes 🗸

Enable Record Schedule

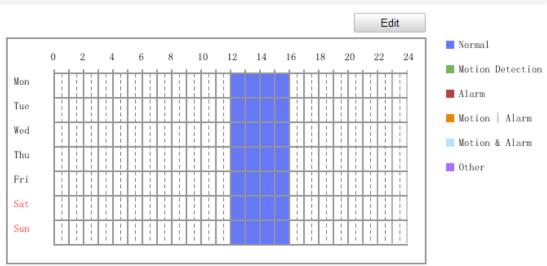


Figure 7-5 Recording Schedule Interface

- 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	-

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.
- **Overwrite**: If you enable his function and the HDD is full, the new record files overwrite the oldest record files automatically.

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

4. Click Edit to edit the record schedule.

O All I	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.

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

QU.

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

Record Triggered by Motion Detection

If you select **Motion Detection**, the video will be recorded when the motion is detected.

Besides configuring the recording schedule, you have to set the motion

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

• Record Triggered by Alarm

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

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

Record Triggered by Motion & Alarm

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

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

Record Triggered by Motion | Alarm

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

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

Edit Sched	Edit Schedule							
Mon O All O Cl	Tue Wed Thu Fri Sat So Day Normal 💌 Jstomize	ın						
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 💌					
	Week 🗹 Select All	🗹 Sat 🗹 Sun 🔽 Copy						
			OK Cancel					



- (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.

```
END
```

7.3 Configuring Snapshot Settings

Purpose:

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

Basic Settings

Steps:

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



Uploading to FTP



NOTE Please make sure that the FTP server is online.

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

• Upload continuous snapshots to FTP

Steps:

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

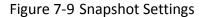
Settings interface. Please refer to Section *6.3.8 Configuring FTP Settings* for more details to configure FTP parameters.

2) Check the Enable Timing Snapshot checkbox.

.1	
1	END
V	
_	~

- Upload event-triggered snapshots to FTP *Steps:*
- Configure the FTP settings and check Upload Picture checkbox in FTP Settings interface. Please refer to Section 6.3.8 Configuring FTP Settings for more details to configure FTP parameters.
- 2) Check Upload to FTP checkbox in Motion Detection Settings or Alarm Input interface. Please refer to Step 3 Set the Alarm Actions Taken for Motion Detection in Section 6.6.1 Configuring Motion Detection, or Step 4 Configuring External Alarm Input in Section 6.6.1 Configuring Motion Detection.
- 3) Check the Enable Event-triggered Snapshot checkbox.

Timing		
Enable Timing Snapshot	t	
Format	JPEG	•
Resolution	1920*1080	•
Quality	High	•
Interval	0	millisecond 👻
Event-Triggered		
Event-Triggered	Snapshot	
	Snapshot JPEG	T
Enable Event-Triggered \$		•
Enable Event-Triggered S Format	JPEG	
 Enable Event-Triggered S Format Resolution 	JPEG 1920*1080	





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

-		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
п	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

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 is to zoom out/in the progress bar.

Set playback time						
$\left\{ \right.$	00	00	00	-		

Figure 8-4 Set Playback Time

					2012-0	04-23 09:	57:54				e	€
4:00	05:00	06;00	07:00	08:00	09;00	10 <mark>:00</mark>	11:00	12:00	13:00	14:00	15 <mark>:</mark> 00	16:
								Comman	d 🔲 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 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.
- 2. Set the start time and end time. Click **Search**. The corresponding video files are listed on the left.

No.	File Name	File Date	File Size	Progress	
1	ch01_0800000106000100	2013-07-08 00:07:16	23 MB		Start Time
2	ch01_08000000107000000	2013-07-08 01:15:37	247 MB		Start Time
3	ch01_08000000108000000	2013-07-08 02:23:55	247 MB		2013-07-8 00:00:00
4	ch01_0800000109000000	2013-07-08 03:29:02	247 MB		
5	ch01_08000000110000000	2013-07-08 04:34:13	247 MB		End Time
6	ch01_08000000111000000	2013-07-08 05:52:44	247 MB		
7	ch01_08000000112000000	2013-07-08 08:03:29	248 MB		2013-07-8 23:59:59
8	ch01_08000000113000000	2013-07-08 10:16:53	247 MB		
9	ch01_08000000114000000	2013-07-08 12:37:46	247 MB		Q Search
10	ch01_08000000115000000	2013-07-08 14:57:46	247 MB		
11	ch01_08000000116000000	2013-07-08 15:31:46	49 MB		Download
12	ch01_08000000116000100	2013-07-08 15:50:02	199 MB		Download
13	ch01_08000000117000000	2013-07-08 16:09:11	248 MB		
14	ch01_08000000118000000	2013-07-08 16:28:50	248 MB		
15	ch01 08000000110000000	2013-07-08 16:40:22	248 MB		

Total 23 Items First Page Prev Page 1/1 Next Page Last Page

Figure 8-7 Video Downloading interface

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



NOTE

Progress

- The progress ratio 6% 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

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

Task 3: To download the captured pictures

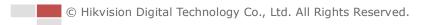
Steps:

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

No.	File Name	File Date	File Size	Progress	
					Timing
					Start Time
					2013-07-8 00:00:00
					End Time
					2013-07-8 23:59:59
					🔍 Search
					Download

Figure 8-8 Picture Downloading interface

END



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	
🔍 Search	

Figure 9-2 Log Searching

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



Chapter 10 Others

10.1 Managing User Accounts

Enter the User Management interface:

Configuration >Basic Configuration > Security > User

Or Configuration > Advanced Configuration > Security > User

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

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.

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	uration	
Remote: Parameters Se	ettings	Remote: Live View		
Remote: Log Search / In	nterrogate Working Status	Remote: PTZ Control		
Remote: Upgrade / For	nat	Remote: Manual Record		
Remote: Two-way Audio)	Remote: Playback		
Remote: Shutdown / Re	boot			
Remote: Notify Surveilla	nce Center / Trigger Alarm Output			
Remote: Video Output (
Remote: Serial Port Cor				
		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.
- 3. In the **Basic Permission** field and **Camera Configuration** field, you can check or uncheck the permissions.
- 4. Click OK to finish the user modification.

Modify user				
User Name	tes2			
Level	Operator 💌			
Password	•••••			
Confirm	•••••			
Basic Permission		Camera Configuration		
Remote: Parameters	Settings	Remote: Live View		
Remote: Log Search	/ Interrogate Working Status	Remote: PTZ Control		
🔲 Remote: Upgrade / F	ormat	Remote: Manual Record		
📝 Remote: Two-way Au	udio	Remote: Playback		
Remote: Shutdown /	Reboot			
Remote: Notify Surve	eillance Center / Trigger Alarm Output			
Remote: Video Outpo				
Remote: Serial Port				
		OK Cancel		

Figure 10-3 Modify a User



Delete a User ۲

Steps:

1. Left-click the user name you want to delete and click

Delete

OK on the pop-up dialogue box to delete the user. 2. Click User Add Modify Delete х Message from webpage No. User Name admin 1 test Delete this user? ОК Cancel

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	Anonymous Visit IP Address Filter	
Authentication	basic 🗸	



- 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.

END

10.3 Configuring Anonymous Visit

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

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

User RTSP Authentication	Anonymous Visit IP Address	s Filter	
Anonymous Visit	Disable	~	
			Save

Figure 10-6 Anonymous Login

		English	¥
User Name			
Password			
	Log	ain	
	Anonymous		

Figure 10-7 Login Interface

10.4 Configuring IP Address Filter

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

Filter Type	Description
	Forbid the IP addresses added in
Forbidden	the IP Address Filter interface to
	log in.
	Allow only the IP addresses
Allowed	added in the IP Address Filter
	interface to log in.
User RTSP Authentication Anonymous Visit IP A	Address Filter
Enable IP Address Filter	
IP Address Filter Type Forbidden	✓
IP Address Filter	
	Add Modify Delete Clear
No. IP	

Figure 10-8 IP Address Filter

10.5 Viewing Device Information

Enter the Device Information interface:

172.6.21.119

1

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

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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 Time S	Settings Maintenance					
Basic Information						
Device Name	Net IPDOME					
Model	XX-XXXXXXX-X					
Serial No.	XX-XXXXXXX-XXXXXXX					
Firmware Version	V4.2.1 121022					
Encoding Version	V2.0 build 121022					
Number of Channels	1					
Number of HDDs	0					
Number of Alarm Input	1					
Number of Alarm Output	1					

Figure 10-9 Device Information

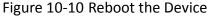
10.6 Maintenance

10.6.1 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.



.1	$ \land \land$	h.
Ш	END	81
lt	LIND	
4	V	
	~	

10.6.2 Restoring Default Settings

Steps:

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Save

1. Enter the Maintenance interface:

Configuration > Basic Configuration > System > Maintenance Or **Configuration > Advanced Configuration > System > Maintenance**

2. Click Restore or Default to restore the default settings.

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.





10.6.3 Importing/Exporting Configuration File

Steps:

1.	Enter the Maintenance interface: Configuration > Basic Configuration> System > Maintenance Or Configuration > Advanced Configuration> System > Maintenance
2.	Click Browse to select the local configuration file and then click Import
	to start importing configuration file.
	You need to reboot the speed dome after importing configuration file.
3.	Click Export and set the saving path to save the configuration file in local
	storage.
	Import Config. File
	Config File Browse Import
	Status
	Export Config. File
	Export
	Figure 10-12 Import/Export Configuration File
E	ND

Upgrade

10.6.4 Upgrading the System

Steps:

- 1. 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

to start remote upgrade.

9

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 10-13 Remote Upgrade





10.7 RS-485 Settings

Purpose:

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

Steps:

1. Enter RS-485 Port Setting interface:

Configuration> Advanced Configuration> System > RS485

-				
Device Information	Time Settings	Maintenance	RS485	DST
Baud Rate	9	600 bps		•
Data Bit	8			•
Stop Bit	1			•
Parity	Ν	one		•
Flow Ctrl	Ν	one		•
PTZ Protocol	F	ELCO_P		•
PTZ Address	1			

Figure 10-14 RS-485 Settings

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

By default, the Baud Rate is set as 9600 bps, the Data Bit is 8, the stop bit is 1 and the Parity and Flow Control is None.

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



9

Appendix

Appendix 1 SADP Software Introduction

• Description of SADP

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

• Search active devices online

Search online devices automatically

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

Control Devices A bold Image: Control Devices 5 Image: Control Devices Image: C			SADP		×
D Device Type IPv4 Address Port IPv4 Gateway	Q Online Devices	🕡 About			
001 HDDomeSeries 172.6.21.157 8000 V4.0.2build 120807 Port Subnet Masic IPAddress: IPAddress: IPAddress: IPAddress: IPA Gateway: IPA Gateway: IPA Gateway: IPA Gateway:	4 Total number of onl	ine devices: 5		@ Refresh >>	Modify Network Parameters
			IPv4 Gateway		Port Subnet Mask: IP4 Gateway: IP4 Gateway: IP4 Gateway: IP4 Gateway: IP4 Gateway: IP4 Gateway: IP4 Grateway: IP4

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

<u>S</u>

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

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

					SADP			_ D ×
<u></u> c	Online Devices	🕡 About						
Q T	otal number of onl	line devices: 2				Refresh >>	Modify Network Pa	arameters
001	Decka Type XX-0000000-X	IPv4 Address 172 6 21 206	Port 8000	Software Version VX XXbuildxxxxxx	IPv4 Gateway 172 8.8.1	Serial No. xx-xxxxxxxxxxxxxx	Restore Default F Serial code Note: Serial col	Confirm de is a series of characters e start time and the serial
4						•		

Figure A.1.2 Modify Network Parameters



Restore default password

Steps:

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

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

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 WAN MAC Clone 	MAC Address: IP Address: Subnet Mask:	00-14-78-6A-DB-0C 192.168.10.1 255.255.255.0
		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.





• You can change 80, 8000 and 554 ports value in the speed dome with web browser or

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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:

END

- 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 . 23	ALL 🔽	~		
Basic Settings + Network	2	8000	192.168.10. 23	ALL 🗸	~		
+ Wireless Advanced Settings	3	554	192.168.10. 23	ALL 💙	~		
+ DHCP	4	8200	192.168.10 . 23	ALL 🔽	~		
 Forwarding Virtual Servers 	5	81	192.168.10. ₂₄	ALL 💙	~		
Port Triggering	6	8001	192.168.10 . 24	ALL 🔽	~		
• DMZ • UPnP	7	555	192.168.10. 24	ALL 🔽	~		
+ Security	8	8201	192.168.10. 24	ALL 🔽	~		
Static Routing Dynamic DNS Maintenance System Tools	Common Service Port: DNS(53) Copy to ID 1 Previous Next Clear All Save						
	Figure A 2 2 Dort Monning						

Figure A.2.3 Port Mapping

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

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same as the management port.

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