IR High-definition Network Speed Dome

User Manual

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

This manual applies to Network Speed Dome.

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

DISCLAIMER STATEMENT

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

Regulatory Information

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

FCC Conditions

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

1. This device may not cause harmful interference.

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

EU Conformity Statement



This product and - if applicable - the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the Low Voltage Directive 2006/95/EC, the EMC Directive 2004/108/EC, the RoHS Directive 2011/65/EU.



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

designated collection points. For more information see: www.recyclethis.info.



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

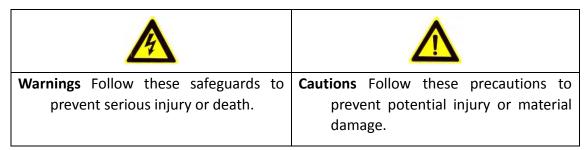
indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: www.recyclethis.info.

Safety Instruction

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

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

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





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

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Chapter 1 Overview

1.1 System Requirement

System requirement of web browser accessing is as follows: **Operating System:** Microsoft Windows XP SP1 and above version / Vista / Win7 / Server 2003 / Server 2008 32bits **CPU:** Intel Pentium IV 3.0 GHz or higher **RAM:** 1G or higher **Display:** 1024×768 resolution or higher **Web Browser:** Internet Explorer 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

Note: The functions vary depending on the models of speed dome.

• Limit Stops

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

• Scan Modes

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

• 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.

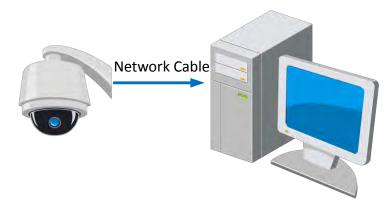


Figure 2-1 Connecting Directly

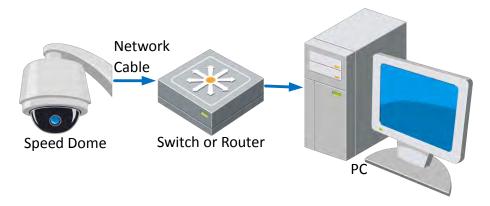


Figure 2-2 Connecting via a Switch or a Router

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.
- 2. Change the IP address and subnet mask to the same subnet as that of your computer.
- 3. Enter the IP address of network speed dome in the address field of the web browser to view the live video.

Notes:

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



Figure 2-3 SADP Interface

2.2 Setting the Network Speed Dome over the WAN

Purpose:

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

2.2.1 Static IP Connection

Before you start:

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

• Connecting the network speed dome via a router

Steps:

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

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

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

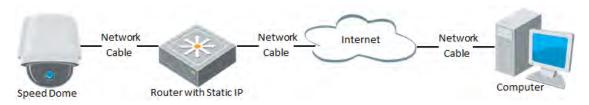


Figure 2-4 Accessing the Speed Dome through Router with Static IP

• Connecting the network speed dome with static IP directly

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



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

2.2.2 Dynamic IP Connection

Before you start:

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

• Connecting the network speed dome via a router

Steps:

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

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

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

• Connecting the network speed dome via a modem

Purpose:

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

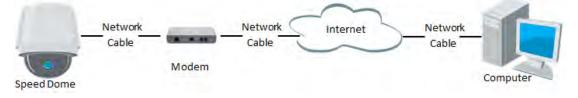


Figure 2-6 Accessing the Speed Dome with Dynamic IP

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

• Normal Domain Name Resolution

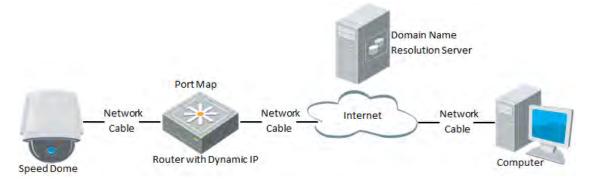


Figure 2-7 Normal Domain Name Resolution

Steps:

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

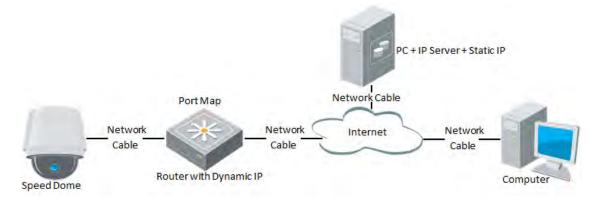


Figure 2-8 Private Domain Name Resolution

Steps:

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

Chapter 3 Access to the Network

Speed Dome

3.1 Accessing by Web Browsers

Steps:

- 1. Open the web browser.
- 2. In the address field, input the IP address of the network speed dome, e.g.,
- 192.0.0.64 and press the Enter key to enter the login interface.
- 3. Select English as the interface language on the top-right of login interface.
- 4. Input the user name and password and click Login

Note: 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.

Platinum PTZIP XXX	Live View	Playback	L
🕐 Help 🚚 Logout 💄 admin			
🗤 💷 💌 🔚 Third Stream Sub Stream Ma	in Stream		Le »
and the second			
Please click here to download and install the	e plug-in. Close the browse	when installing the plug-in.	
= 40 0		404	@30 14

Figure 3-2 Download and Install Plug-in



Figure 3-3 Install Plug-in (1)

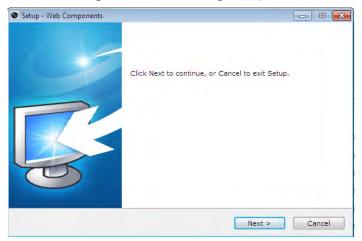


Figure 3-4 Install Plug-in (2)

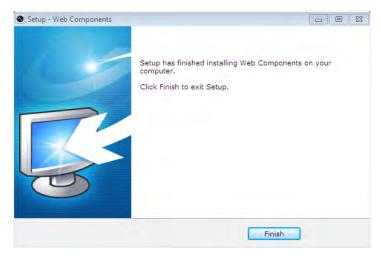


Figure 3-5 Install Plug-in (3)

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

3.2 Accessing by Client Software

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.

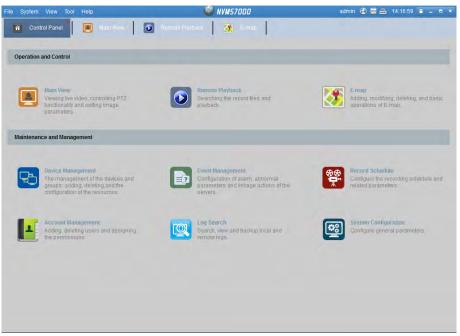


Figure 3-6 NVMS7000 PCNVR Control Panel

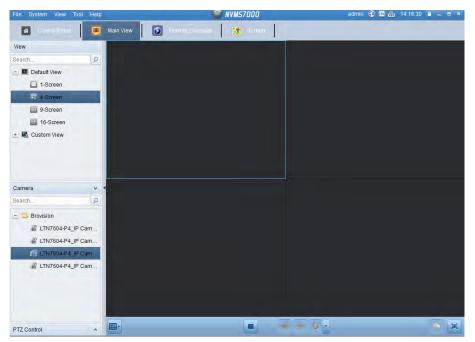


Figure 3-7 NVMS7000 PCNVR Live View Interface

Notes:

- 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-2X	XXXXX-X
ADDRESS		0
COMMUNICAT	TION	0000,0,0,0
SOFTWARE VE	ERSION	V000
CAMERA VERS	SION	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:

Toolbar

Figure 4-2 Live View Page

Menu Bar:

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

Live View Window:

Display the live video.

Toolbar:

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

PTZ Control:

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

Preset/patrol/pattern:

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

Live View Parameters:

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

4.3 Starting Live View

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



Figure 4-3 Start Live View

lcon	Description	lcon	Description
	Live view on	*	Live view off
	Manually capture the pictures		
	Manual recording off	iii.	Manual recording on
	Audio on and adjust volume		Mute
Ā	Two-way audio off	.	Two-way audio on
Q ³⁰	3D zoom		Manual tracking

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

Full-screen Mode:

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

3D Positioning:

Steps:

- 1. Click 9 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:

- 1. Click on the tool bar of live view interface.
- 2. Left click a moving object in the live video.

The speed dome will track the object automatically.



NOTE 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.

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

4.5 Operating PTZ Control

Purpose:

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

4.5.1 PTZ Control Panel

On the live view page, click 2 who show the PTZ control panel or click 2 who to

hide it.

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

	* #
4 (U) F	00
	0 0
	+
·••· •	8 0

Figure 4-4 PTZ Control Panel

Table 4-2 Descriptions of PTZ Control Panel

Button	Description
A 444	Zoom in/out
0 0	Focus near/far
0 0	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.

*	2 3	
Pre	set 1 🔸 🖉 🌾	^
Pres	set 2	
Pres	set 3	
Pres	set 4	
Pres	set 5	
Pres	set 6	
Dray	ant 7	1

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 division the setting of the current preset.
- 4. You can click sto delete the preset.

Q. NOTE You can configure up to 256 presets.



Calling a Preset: •

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



Figure 4-6 Calling a Preset

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

Table 4-3 Special Presets

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

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 🕐 to enter the patrol settings interface.
- 2. Select a patrol number from Path 01 .
- 3. Click store the adding interface of preset as shown in Figure 4-7.

Patrol					
Preset:	Preset 1 💌				
Patrol duration	2				
Patrol Speed 30					
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.	



Figure 4-8 Calling a Preset

• Buttons on the Patrols interface:

Buttons	Description
1	Save a patrol
	Call a patrol
	Stop a patrol
Ð	Enter the adding interface of preset
Ľ	Modify a preset
0	Delete a preset
8	Delete all the presets in one patrol

4.5.4 Setting / Calling a Pattern

Purpose:

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

Setting a Pattern:

Steps:

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

1	0
Pattern 1	
Pattern 2	
Pattern 3	
Pattern 4	

Figure 4-9 Patterns Settings Interface

- 3. Click Click characteristic 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 \blacksquare to save all the pattern settings.



Buttons on the Patterns interface:

Buttons	Description
6	Start to record a pattern.

8	Stop recording a pattern.				
	Call the current pattern.				
	Stop the current pattern.				
10	Delete the current pattern.				



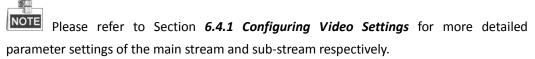
- These 4 patterns can be operated separately and with no priority level.
- When configuring and calling the pattern, proportional pan is valid; the limit stops and auto flip will be invalid; and the 3D positioning operation is not supported.

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.



• Image Size:

You can scale up/down the live view image by clicking $\textcircled{1}{1}$ $\textcircled{1}{1}$ $\textcircled{1}{1}$. The image size can be 4:3, 16:9, original or auto.

Chapter 5 PTZ Configuration

5.1 Configuring Initial Position

Purpose:

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

• Customize an Initial Position:

Steps:

1. Enter the Initial Position Configuration interface:

Configuration > Advanced Configuration > PTZ > Initial Position



Figure 5-1 PTZ Configuration

2. Click the PTZ control buttons to find a position as the initial position of the dome;

you can also call a defined preset and set it as the initial position of the dome.

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



• Call/delete an Initial Position:

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

5.2 Configuring Basic PTZ Parameters

Purpose:

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

1. Enter the Basic PTZ Parameter Configuration interface:

Configuration > Advanced Configuration > PTZ > Basic

sic	Limit	Initial Position	Park Action	Privacy Mask	Scheduled Tasks	Clear Config	Smart Tracking	
Bas	sic Paran	neter						
V	Enable Pr	oportional Par	ı					
	Enable Pr	eset Freezing						
Pre	set Spee	d	4		~			
Key	/board Co	ntrol Speed	Normal		~			
Aut	o Scan Sj	beed	28		~			
PTZ	z osd							
Zoc	om Status		2s		~			
PT	Status		2s		~			
Pre	set Statu	S	2s		*			
Ροι	wer Off M	emory						
Set	Resume	Time Point	30s		*			
								Save

Figure 5-2 Basic PTZ Configuration Interface

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

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

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

- PTZ OSD: Set the on-screen display duration of the PTZ status.
 - Zoom Status: Set the OSD duration of zooming status as 2 seconds, 5 seconds, 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

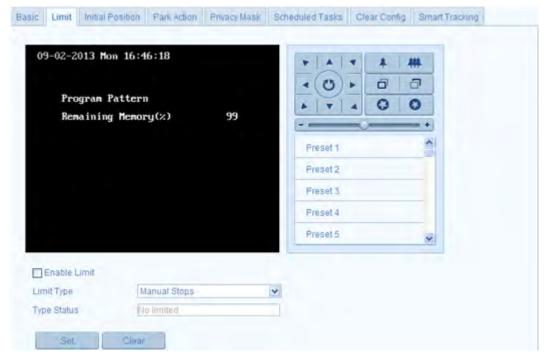


Figure 5-3 Configure the PTZ Limit

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

Manual Stops:

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

Scan Stops:

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



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

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



5.4 Configuring Scheduled Tasks

Purpose:

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

Steps:

1. Enter the Scheduled Task Settings interface:

Configuration> Advanced Configuration> PTZ > Scheduled Tasks



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.

to edit the task schedule.

4. Set the schedule and task details. *Steps:*

(1)Click

Edit Tasks

ming Tasi		Fri Sat Sun			
OAII D		~			
Period	Start Time	End Time	Task Type		Task Type ID
1	00:00	00:00	Close	*	
2	00 :00	0	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	*	
	Veek Select All	u 🗌 Fri 🗌 Sat 🗌 Sun 🦳	Сору		

Figure 5-5 Edit the Schedule and Task Type

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



Figure 5-6 Task Types

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



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

5. Click Cancel to save the settings.

.1		Ь
11	END	
L	X	1

61

5.5 Configuring Park Actions

Purpose:

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

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

Steps:

1. Enter the Park Action Settings interface:

Configuration > Advanced Configuration > PTZ > Park Action

Basic Limit Initial Posit	ion Park Action	Privacy Mask	Scheduled Tasks	Clear Config	Smart Tracking	
Enable Park Action						
Park Time	5		second			
Action 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 Ty	/pes
5.	Click	Save	to save the settings.	

5.6 Configuring Privacy Mask

Purpose:

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

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

		-			-	* * *	#	
-	D	MR.OWER		THE R	10)	0 6	יד	
<u></u>	HI	THE		II IIII			2	
		-		A THE R		0	= +	
		Service -	-	THE REAL	Preset 1		^	
		WTO S			Preset 2			
	- W			CAR M	Preset 3			
Ó	石田		No 1	and a second	Preset 4			
	-			and a	Preset 5		~	
1	p Drawi	ng Clear All						

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	Active Zoom Ratio	
1	Privacy Mask 1	yellow 💌	Yes	1	

Figure 5-10 Privacy Mask List

gray 💌
gray
red
green
blue
orange
yellow
mosaic

Figure 5-11 Define Mask Color

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

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



0

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

Basic	Limit	Initial Position	Park Action	Privacy Mask	Scheduled Tasks	Clear Config	Smart Tracking	
	になったの				Preset 1 Preset 2 Preset 3 Preset 4 Preset 5			
	Enable S	Smart Tracking						
Du	ration	0			second			
S	et Zoom	R						

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.





- 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.





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

ocal Configuration				
Live View Parameters				
Protocol	● TCP	O UDP	O MULTICAST	O HTTP
Live View Performance	🔘 Least Delay	 Balanced 	O Best Fluency	
Rules	 Enable 	O Disable		
Record File Settings				
Record File Size	◯ 256M	⊙ 512M	🔘 1G	
Save record files to	C:\Documents an	d Settings\jack.zhang\	Web\RecordFiles	Browse
Save downloaded files to	C:\Documents an	d Settings\jack.zhang\	Web\DownloadFiles	Browse
Picture and Clip Settings				
Save snapshots in live view to	C:\Documents an	d Settings\jack.zhang\	Web\CaptureFiles	Browse
Save snapshots when playback	to C:\Documents an	d Settings\jack.zhang\	Web\PlaybackPics	Browse
Save clips to	C:\Documents an	d Settings\jack.zhang\	Web\PlaybackFiles	Browse
				Save

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.

NOTE 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	ime Settings Maintenance RS485 DST	
Time Zone	(GMT+08:00) Beijing, Urumqi, Singapore	
Time Sync.		
○ NTP		
Server Address		
NTP Port	123	
Interval	0 min.	
💿 Manual Time Sy	nc.	
Device Time	2013-09-02T17:07:30	
Set Time	2013-09-02T17:07:23	
		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.			
NTP			
Server Address			
NTP Port	123		
Interval	0	min.	

Figure 6-3 Time Sync by NTP Server

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



• Configuring Time Synchronization Manually

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.

NOTE

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

-		Sep	2	013		Þ ÞÞ			
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	Manual Time Sync.		
22	23	24	25	26	27	28	C mandar time cyne.		
29	30				4		Device Time	2013-09-02T17:09:01	
							201100 11110	2013-03-02117.03.01	
	Time	17	: 8	: 13	•		Set Time	2013-09-02T17:08:13	🛅 🔲 Sync. with computer time
•	Ð			Today	(ЭК			

Figure 6-4 Time Sync Manually



• Select the Time Zone

Purpose:

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

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



Figure 6-5 Time Zone Settings

Configuring Daylight Saving Time (summer time) Purpose:

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

Steps:

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

(2) Check \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

.1	
10	END
L	V

6.3 Configuring Network Settings

6.3.1 Configuring TCP/IP Settings

Purpose:

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

Steps:

1. Enter TCP/IP Settings interface:

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

CP/IP Port		
NIC Settings		
NIC Туре	Auto 💌	
DHCP		
IPv4 Address	192.168.1.68	
IPv4 Subnet Mask	255.255.255.0	
IPv4 Default Gateway	192.168.1.1	
IPv6 Mode	Route Advertisement 💌	View Route.
IPv6 Address		
IPv6 Subnet Mask	0	
IPv6 Default Gateway		
Mac Address	8cte7:48te7tc8tae	
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

<u>S</u>

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



6.3.2 Configuring Port Settings

Purpose:

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

Steps:

1. Enter the Port Settings interface:

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

TCP/IP	Port	
HTT	P Port	8001
RTS	P Port	1025
HTT	PS Port	443
Serv	er Port	8000
		Save



- 2. Set the HTTP port, RTSP port and port of the speed dome. HTTP Port: The default port number is 80. RTSP Port: The default port number is 554. HTTPS Port: The default port number is 443. SDK Port: The default port number is 8000.
- Save 3. Click to save the settings.

1	
END	1
	ų
-X	_

6.3.3 Configuring PPPoE Settings

Purpose:

If you have no router but only a modem, you can use Point-to-Point Protocol over

Ethernet (PPPoE) function.

Steps:

1. Enter the PPPoE Settings interface:

Configuration > Advanced Configuration > Network > PPPoE

TCP/IP Port	DDNS PPPoE	SNMP	802.1X	QoS FTP	NAT	Email

Enable PPPoE			
Dynamic IP	0.0.0.0		
User Name			
Password			
Confirm			

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.

Save 4. Click to save and exit the interface.

END

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		
	2010									
Enable DI	JNS									
DDNS Type		IPS	Server			*				
Server Addre	SS									
Domain										
Port		0								
User Name										
Password										
Confirm										

Save

Figure 6-11 DDNS Settings

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

Steps:

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

TCP/IP	Port	DDNS	PPPoE	SNMP	802.1X	QoS	FTP	NAT	Email	
V E	Enable D	DNS								
DDI	NS Type		HiD	DNS			~			
Sen	ver Addr	ess	www	v.hiddns.	com					
Dor	nain									
Por	t		0							
Use	er Name									
Pas	sword									
Cor	nfirm									
										Save

Figure 6-12 DynDNS Settings

• IP Server:

Steps:

- (1) Enter the Server Address of the IP Server.
- (2) Click save the settings.

NOTE

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



Figure 6-13 IPServer 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.

• HiDDNS:

Steps:

- (1) Enter the Server Address: www.hiddns.com.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.

тс	P/IP	Port	DDNS	PPPoE	SNMP	802.1X	QoS	FTP	NAT	Email			
	✓ E	nable D	DNS										
	DDNS Type				HIDDNS								
	Serv	er Addr	ess	ww	www. hiddns .com								
	Dom	nain		42	423315940								
	Port			0	0								
	Use	r Name											
	Pas	sword											
	Con	firm											

Figure 6-14 HiDDNS Settings

• LTS: Steps:

 $(1) \quad (2) \quad (2)$

- (1) Enter the Server Address: ns1.dvrlists.com.
- (2) Enter the Domain name of the camera. The domain is the same with the device alias in the LTS DDNS server.
- (3) Click save to save the settings.

CP/IP	Port	DDNS	PPPoE	SNMP	802.1X	QoS	FTP	NAT	Email			
V E	inable D	DNS										
DDN	NS Type		LTS	}			~					
Serv	ver Addr	ess	ns1	.dvrlists.c	om/							
Dom	nain											
Port			0									
Use	r Name											
Pas	sword											
Con	firm											
											1	Save





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:

Q.

1. Enter the SNMP Settings interface:

P/IP Port DDNS PF	PPoE SNMP 802.1X QoS FTP NAT Email
SNMP v1/v2	
Enable SNMPv1	
Enable SNMP v2c	
Write SNMP Community	
Read SNMP Community	public
Trap Address	
Trap Port	162
Trap Community	public
SNMP v3	
Enable SNMPv3	
Read UserName	
Security Level	no auth, no priv 📉
Authentication Algorithm	MD5 O SHA
Authentication Password	
Private-key Algorithm	DES AES
Private-key password	
Write UserName	
Security Level	no auth, no priv
Authentication Algorithm	⊕ MD5 ⊖ SHA
Authentication Password	
Private-key Algorithm	DES AES
Private-key password	
SNMP Other Settings	
SNMP Port	161



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.



Q.

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:

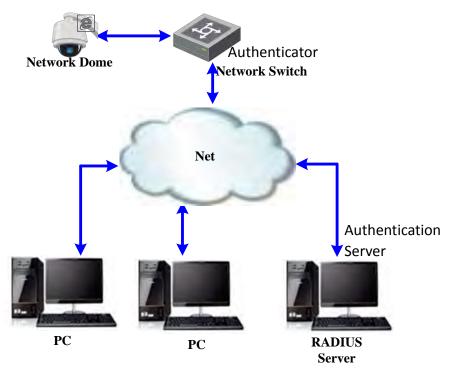


Figure 6-17 Protected LAN

- Before connecting the Network Camera to the protected LAN, please apply a digital certificate from a Certificate Authority.
- The network camera requests access to the protected LAN via the authenticator (a switch).
- The switch forwards the identity and password to the authentication

server(RADIUS server).

- The switch forwards the certificate of authentication server to the network camera.
- If all the information is validated, the switch allows the network access to the protected network.

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

TCP/IP	Port	DDNS	PPPoE	SNMP	802.1X	QoS	FTP	NAT	Email			
~	Enable I	EEE 802.	1X									
Prof	tocol		EAP	-MD5			~					
EAP	OL vers	ion	1				*					
Use	er Name											
Pas	sword											
Cor	nfirm											
											ſ	Save

Figure 6-18 802.1X Settings

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

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.

END

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:

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

TCP/IP Port DDNS	PPPoE SNMP	802.1X QoS	FTP NAT	Email	
Video/Audio DSCP	0				
Event/Alarm DSCP	0				
Management DSCP	0				
					-
					Save

Figure 6-19 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.



- 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.

Configuration >Advanced Configuration > Network > FTP



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:

TCP/IP	Port	DDNS	PPPoE	SNMP	802.1X	QoS	FTP	NAT	Email			
Serv	er Addre	ess	0.0.0	.0								
Port			21									
Use	r Name							Anonyr	nous			
Pas	sword											
Cont	firm											
Dire	ctory Str	ucture	Save	in the ro	ot director	у.	~					
Pare	ent Direc	tory	Use	Device N	ame		\mathbf{v}					
Chil	d Direct	ory	Use	Camera	Name		Y					
Uplo	ad Type	9	🔲 U	pload Pic	ture							
												Save

Figure 6-20 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 6-21.

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

Figure 6-21 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 6-22.

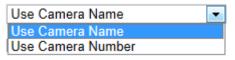


Figure 6-22 Child Directory

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

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

IV Enai	ble UPnP™				
Friendly		ISION PTZIP762X20IR -	42104		
Friendi		1510IN PTZIP762X20IR -	42104		
Port Ma	apping				
🔽 Enal	ble Port Mapping				
Port Ma	pping Mode Auto		~		
	Port Type	External Port	Router WAN IP	Status	
V	HTTP	8001	0.0.0.0	Not Valid	
V	RTSP	1025	0.0.0.0	Not Valid	
		8000	0.0.0.0	Not Valid	

Figure 6-23 Configure UPnP Settings

4. Click **Same** to save the settings.



• 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 the settings.



6.3.10 Configuring Email Settings

Purpose:

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

Before you start:

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

Steps:

1. Enter the Email Settings interface:

Configu	ratior	ı > Adv	vanced	l Confi	gurat	ion >	> Net	work >	• Email		
P/IP Port	DDNS	PPPoE	SNMP	802.1X	QoS	FTP	NAT	Email			
Sender											
Sender											
Sender's Add	iress										
SMTP Server	r										
SMTP Port		25									
Enable S	SL										
Interval		2s				¥ 🗆	Attache	d Image			
Authentic	ation										
User Name											
Password											
Confirm											
Receiver											
Receiver1											
Receiver1's	Address										
Receiver2											
Receiver2's	Address										
Receiver3											
Receiver3's	Address										
											Sa

Figure 6-24 Email Settings

2. Configure the following settings:

Sender: The name of the email sender.

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

SMTP Server: The SMTP Server IP address or host name (e.g.,

smtp.263xmail.com).

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

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

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

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

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

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

Receiver: The name of the user to be notified.

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

3. Click Save to save the settings.



6.4 Configuring Video and Audio Settings

6.4.11 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)	*	
/ideo Type	Video&Audio	▼	
Resolution	1920*1080P	▼	
Bitrate Type	Constant	v	
ideo Quality	Medium	v	
rame Rate	30	v	
lax. Bitrate	6144	Kbps	
ideo Encoding	H.264	▼	
Profile	High Profile	~	
Frame Interval	100		

Figure 6-25 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.





6.4.12 Configuring Audio Settings

Steps:

END

1. Enter the Audio Settings interface

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

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

Figure 6-26 Audio Settings

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

60

6.4.13 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.

teo Audio ROI					
			Preset 3 Preset 5	* ## 0 0 •	
Draw Area Dr Stream Type Stream Type	ear All	nal) 👻			
Fixed Region					
Enable					
Region No.	1	~			
Enhance the level	3	*			
Region Name					
Dynamic Tracking					
Enable					
Enhance the level	8	~			

Figure 6-27 Region of Interest

END

• **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.

END

6.5 Configuring Image Settings

6.5.14 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	OSD Settings	Text Overlay			
			Brightness		50
1	AND THE REAL PROPERTY	ALCEN.	Contrast		60
CI-TH	HHT		Saturation		50
No. 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10		In Company	Limit Gain	10	94
		C TO TIENS	Sharpness		35
N.	18 . A	AND THE	Focus Mode	Semi-auto	v
		Property and	Min. Focus Distance	1m	*
UT	TT	State of the	Exposure Mode	Auto	~
Contraction of the second			Video Standard	50hz	*
Here I.		C. Los Con	Day/Night Switch	Auto	~
			Sensitivity	Normal	~
			Mirror	OFF	*
			Slow Shutter		
			Slow Shutter Level	Low	Q
			WDR	OFF	14
			Lens Initialization		
			BLC	OFF	Y
			White Balance	Auto	~
			Digital Noise Reduction	ON	~
			Noise Reduction Level		50
			Defog Mode	OFF	*
			Zoom Limit	30	~
			Chroma Suppress		60
			HLC	OFF	~
			Local Output	ON	v
			Default	Loren	

Figure 6-28 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

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.



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.



Figure 6-29 Manual Iris

• Shutter Priority:

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



Figure 6-30 Manual Shutter

• Gain Priority:

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

Gain	 0	

Figure 6-31 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	۷
Sensitivity	Low	~

Figure 6-32 Auto Mode Sensitivity

• Day:

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

• Night:

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

Mirror

If you turn the MIRROR function on, the image will be flipped. It is like the image in

the mirror. The flip direction can be set to OFF, LEFT/RIGHT, UP/DOWN or CENTER.

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

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**.

Exposure Mode	Shutter Priority			
Shutter	1/60	¥		

Figure 6-34 Slow Shutter

Lens Initialization

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

BLC

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

White Balance

The White Balance mode can be set to Auto, 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.

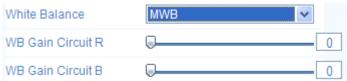


Figure 6-35 Manual White Balance

• 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.



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.

NOTE

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 6	0
-------------------	---

Figure 6-37 Chroma Suppress



NOTE 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.

6.5.15 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

04-18 Thursday 20:24:24	Display Name		
	Display Date		
	Display Week		
	Camera Name	IPdome	
	Time Format	24-hour	~
A A A A A A A A A A A A A A A A A A A	Date Format	MM-DD-YYYY	Y
	Display Mode	Not transparent & N	ot flast 💌
	OSD Size	32*32	Y

Figure 6-38 OSD Settings

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



Figure 6-39 Adjust OSD Location

6. Click Save to activate above settings.

END

6.5.16 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 $\boxed{100}$ in the live view

window to adjust the text overlay position.

5. Click Save

NOTE There are up to 8 text overlays configurable.

Display Settings	OSD Settings	Text Overlay				
Display Settings	TH	Text Overlay	 ✓ 1 ✓ 2 3 4 5 6 7 8 	Text1 Text2		
					ſ	Save

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.

6.6.17 Configuring Motion Detection

Purpose:

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

Steps:

1. Set the Motion Detection Area.

Steps:

(1) Enter the motion detection settings interface

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

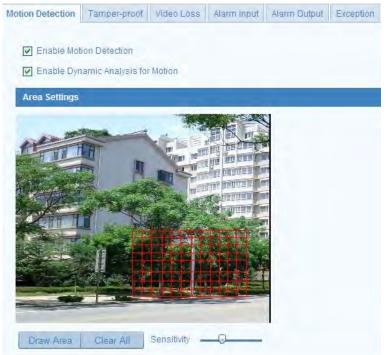


Figure 6-41 Enable Motion Detection

2.

(3)Click Draw Area. Click and drag the mouse on the live video image to draw
a motion detection area.
NOTE You can draw up to 8 motion detection areas on the same image.
(4)Click Stop Drawing to finish drawing.
NOTE You can click Clear All to clear all of the areas.
(5) Move the slider Sensitivity detection.
Set the Arming Schedule for Motion Detection.
Steps:

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

\rmin	g Sche	edule											
												Edi	it
	0	2	4	6	8	10	12	14	16	18	20	22	24
lon													
ſue													
∥ed													
Thu													
Fri	Ť												
Sat													
Sun	İ												

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.

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

Period	Start Time		End Time	
1	00: 00	뽍	24: 00	<u>}</u>
2	00: 00	뽍	00: 00	
3	00: 00	法	00: 00	
1	00:00	: 문	00: 00	
5	00:00		00: 00	
3	00: 00	똜	00: 00	
7	00: 00	<u>米</u>	00: 00	
3	00: 00	<u>米</u>	00: 00	

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.

Q.

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.



NOTE 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.

9

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

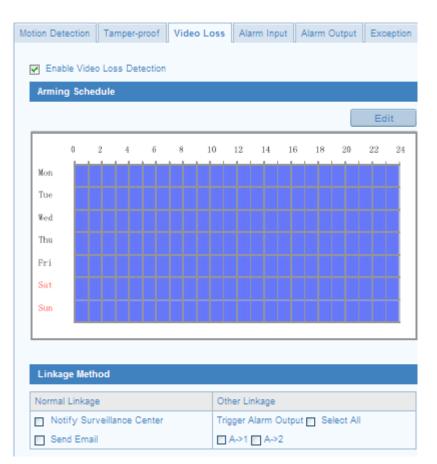
END

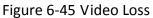
6.6.18 Configuring Video Loss Alarm

Steps:

1. Enter the Video Loss Setting interface:

Configuration > Advanced Configuration > Events > 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.



6.6.19 Configuring Tamper-proof Alarm

Purpose:

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

Enter the Tamper-proof Settings interface:
 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.



6.6.20 Configuring External Alarm Input

Steps:

- Enter the Alarm Input Settings interface:
 Configuration > Advanced Configuration > Events > Alarm Input:
- 2. Choose the alarm input No. and the Alarm Type. The alarm type can be NO (Normally Open) and NC (Normally Closed).
- Alarm Name 3. Edit the name in to set a name for the alarm input (optional). Alarm Input No. A<-1 Alarm Name (cannot copy) NO Alarm Type Arming Schedule Edit 0 8 16 18 20 2224 $\overline{2}$ 6 10 12 14 4 Mon Tue Wed Thu Fri Sat Sun

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 🔲 Selec	et All				
Send Email	A->1 A->2					
Upload to FTP	PTZ Linking					
Trigger Channel	Preset No.	1 🗸				
	Patrol No.	1 🗸				
	Pattern	1 👻				
	·					
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

6.6.21 Configuring Alarm Output

Steps:

1. Enter the Alarm Output Settings interface:

Configuration>Advanced Configuration> Events > Alarm Output

- 2. Select one alarm output channel in the Alarm Output drop-down list.
- 3. Set a name in alarm output (optional).
- 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.

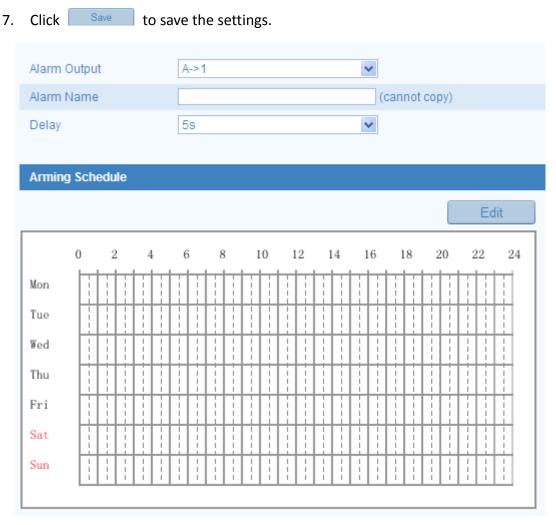


Figure 6-49 Alarm Output Settings



6.6.22 Handling Exception

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

- 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.

Exception Type	HDD Full	▼
Normal Linkage		Other Linkage
Notify Surveillance (Center	Trigger Alarm Output 🔄 Select All
Send Email		A->1 A->2

Figure 6-50 Exception Settings

3. Click Save to save the settings.



Chapter 7 Record Settings

Before you start:

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

7.1 Configuring NAS Settings

Before you start:

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

Steps:

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

Configuration > Advanced Configuration > Storage > NAS

HDD No.	Туре	Server Address	File Path
1	NAS	212.15.203.45	/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.

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.

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

Figure 7-4 View Disk Status



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



7.2 Configuring Recording Schedule

Purpose:

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

Steps:

1. Enter the Record Schedule Settings interface:

Configuration > Advanced Configuration > Storage > Record Schedule

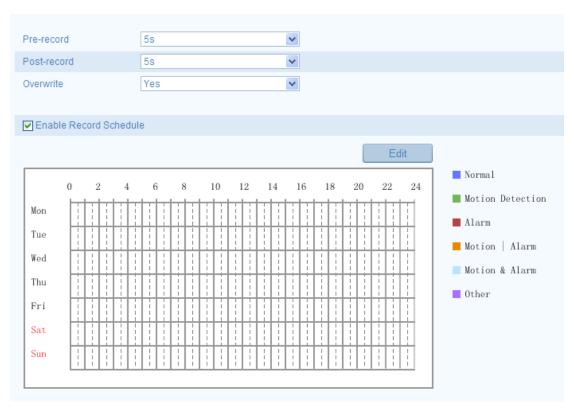


Figure 7-5 Recording Schedule Interface

- 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

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

6

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.

		**	
Period	Start Time	End Time	Record Type
1	00: 00	🔣 00: 00	🔣 Normal 💌
2	00: 00	00:00	🔣 Normal 💌
3	00: 00	00: 00	🔣 Normal 💌
4	00: 00	ﷺ 00:00	🔣 Normal 💌
5	00: 00	1 00: 00	🔣 Normal 💌
6	00: 00	ﷺ 00:00	🔣 Normal 💌
7	00: 00	1 00: 00	🔣 Normal 💌
8	00: 00	1 00: 00	🔣 Normal 💌
opy to V	Veek Select All		

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

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.

	nize		
Period S	Start Time	End Time	Record Type
1 0	00: 00	8 00:00	🗄 Normal 💌
2 0	00: 00	8 00:00	🗄 Normal 💌
3 0	00: 00	8 00:00	🗄 Normal 💌
4 0	00: 00	8 00:00	🗄 Normal 💌
5	06 : 00	00: 00	🗄 Normal 💌
- II		00: 00	🗄 Normal 💌
7 0	00: 00	8 00:00	🐰 Normal 💌
з 0	00: 00	K 00:00	🐰 Normal 💌

Figure 7-8 Edit Record Schedule

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

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



Uploading to FTP



NOTE Please make sure that the FTP server is online.

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

Steps:

- Configure the FTP settings and check Upload Picture checkbox in FTP Settings interface. Please refer to Section 6.3.8 Configuring FTP Settings for more details to configure FTP parameters.
- 2) Check the Enable Timing Snapshot checkbox.



Upload event-triggered snapshots to FTP

- 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						
Format	JPEG	*				
Resolution	1920*1080	*				
Quality	High	*				
Interval	0	millisecond 💌				
Event-Triggered						
Enable Event-Trigger	red Snapshot					
Format	JPEG	*				
Resolution	1920*1080	v				
Quality	High	*				
Interval	0	millisecond 💌				
Capture Number	4					

Figure 7-9 Snapshot Settings



Chapter 8 Playback

Purpose:

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

Task 1: To play back the video files

Steps:

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



Figure 8-1 Playback Interface

2. Select the date and click Search

-	Sep 2013					• •
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	
6	7	8	9	10	11	12
	Q! Search					

Figure 8-2 Search Video

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

END

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		Capture a picture
н	Pause	* 1	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 p	layback	c time	
ſ	00	00	00	-

Figure 8-4 Set Playback Time



Figure 8-5 Progress Bar

The different colors of the video on the progress bar stand for the different video types as shown in Figure 8-6.

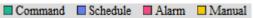


Figure 8-6 Video Types

Task 2: To download the video files

Steps:

- 1. Click an 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_0800000107000000	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		Bowinoad
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 0 Items First Page Prev Page 0/0 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
 First Page Prev Page 1/2 Next Page Last Page to turn pages.

Task 3: To download the captured pictures

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

No.	File Name	File Date	File Size	Progress	
					Timing ✓ Start Time 2013-09-2 00:00:00 □□ End Time 2013-09-2 23:59:59 □□ Q Search □ Q Search The Download □ □

Figure 8-8 Picture Downloading interface



Chapter 9 Log Searching

Purpose:

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

Before you start:

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

Steps:

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

Platinus	PTZIP762X20IR	Live View	Playback	Log	Configuration
leip i 🎵 Logout	l 🔔 admin				
Time	Mayor Type Minor T	ype Channel No. Lo	caVRemote Liser Remote	e Host (P Search Log	6
				Major Type	
				All Types	
				Minor Type	
				All Types	8
				Start Time	
				2013-09-2 0	0:00:00
				End Time	
				2013-09-2 2	3:59:59
					Q Search
				E Save Lo	

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 **Q** 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
2013-09-2 00:00:00
End Time
2013-09-2 23:59:59
Q Search
🖹 Save Log

Figure 9-2 Log Searching

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

Chapter 10 Others

10.1 Managing User Accounts

Enter the User Management interface:

Configuration > Basic Configuration > Security > 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.

User							
		Add Modify Delete					
No.	User Name	Level					
1	admin	Administrator					
	Figure 10-1 User Information						

Add a User

9

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 to finish the user addition.

Add user			
User Name			
Level	Operator 💌		
Password			
Confirm			
Basic Permission		Camera Configuration	
🔲 Remote: Paramete	Remote: Parameters Settings		
Remote: Log Searc	ch / Interrogate Working Status	Remote: PTZ Control	
Remote: Upgrade /	Format	Remote: Manual Record	
Remote: Two-way	Audio	Remote: Playback	
Remote: Shutdown	/ Reboot		
🔲 Remote: Notify Sur	veillance Center / Trigger Alarm Output		
🔲 Remote: Video Out			
Remote: Serial Por	t Control		
		OK Cancel	

Figure 10-2 Add a User



• Modify a User

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

Modify user				
User Name	Test			
Level	Operator 💌			
Password	•••••			
Confirm	•••••			
Basic Permission		Camera Config	guration	
🔲 Remote: Parame	ters Settings	🔽 Remote: Li	ve View	
Remote: Log Sea	arch / Interrogate Working Status	Remote: P	TZ Control	
Remote: Upgrade	e / Format	Remote: M	anual Record	
Remote: Two-wa	y Audio	Remote: Playback		
Remote: Shutdov	vn / Reboot			
Remote: Notify S	urveillance Center / Trigger Alarm Output			
🔲 Remote: Video O	utput Control			
🔲 Remote: Serial P	ort Control			
		ОК	Cancel	

Figure 10-3 Modify a User



• Delete a User

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

No.	User Name	Message from webpage	Add	Modify	[) [taaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
1	admin				
2	test	Delete this user?			

Figure 10-4 Delete a User



10.2 Configuring RTSP Authentication

Purpose:

You can specifically secure the stream data of live view.

Steps:

1. Enter the RTSP Authentication interface:

Configuration > Advanced Configuration > Security > RTSP Authentication

User	RTSP Authentication	Anonymous Visit	IP Address Filter		
Au	thentication	basic	v		
					Save



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



10.3 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.

Anonymous visit	IP Address Filter		
Disable	*		
			Save
		Anonymous Visit IP Address Filter	

Figure 10-6 Anonymous Login

	English v
Sign in with your account	
UserName	
Fassword	

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.

Fi	lter Type	Description
		Forbid the IP addresses added in
Fc	orbidden	the IP Address Filter interface to
		log in.
Al	llowed	Allow only the IP addresses added in the IP Address Filter
		interface to log in.
User RTSP	P Authentication Anonymous Visit IP A	Address Filter
1	L 1	
🔽 Enable	e IP Address Filter	
IP Addres	s Filter Type Forbidden	▼
IP Addres	ss Filter	
		Add Modify Delete Clear
No.	IP	
1	192.168.1.223	

Figure 10-8 IP Address Filter

10.5 Viewing Device Information

Enter the Device Information interface:

Configuration > Basic Configuration > System > Device Information

Or Configuration > Advanced Configuration > System > Device Information

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

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

Device Information Time S	Settings Maintenance	RS485	DST
Basic Information			
Device Name	Net IPDOME		
Model	PTZIP762X20IR		
Serial No.	PTZIP762X20IR2013	0427BBWR	R421045110
Firmware Version	V5.0.4 build 130725		
Encoding Version	V3.1 build 130628		
Number of Channels	1		
Number of HDDs	0		
Number of Alarm Input	7		
Number of Alarm Output	2		
			Save



10.6 Maintenance

10.6.1 Rebooting the Speed Dome

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

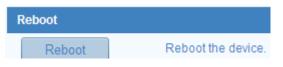


Figure 10-10 Reboot the Device



10.6.2 Restoring Default Settings

Steps:

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

NOTE Clicking **Detault** 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.

Figure 10-11 Restore Default Settings



10.6.3 Importing/Exporting Configuration File

Steps:

Import

- Enter the Maintenance interface: Configuration > Basic Configuration> System > Maintenance Or Configuration > Advanced Configuration> System > Maintenance
- 2. Click Browse to select the local configuration file and then click

to start importing configuration file.

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

3. Click Export and set the saving path to save the configuration file in local storage.

Upgrade

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





10.6.4 Upgrading the System

Steps:

- Enter the Maintenance interface: Configuration > Basic Configuration > System > Maintenance Or Configuration > Advanced Configuration > System > Maintenance
- 2. Click Browse to select the local upgrade file and then click

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 proce	ess will be 1 to 10 minutes, please don't disconnect power to the device during
the process. The de	vice 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

De	evice Information	Time Set	ttings	Maintenance	R\$485	DST
	Baud Rate		9600	bps		*
	Data Bit		8			*
	Stop Bit		1		(~
	Parity		None			*
	Flow Ctrl		None		(~
	PTZ Protocol		HIKVI	SION		*
	PTZ Address		0			

Figure 10-14 RS-485 Settings

2. Set the RS-485 parameters and click

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.

Save

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.



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.

2				SADP				- 0
Q Online Devices	👩 About							
· Total number of onl	line devices: 9				@ Retresh	»	Modily Network Parameter	n
ID Device Type 001 HDDomeSeries	IP-4 Addess 172.821 157	Pot 8000	Software Version V4.8.2build 120807	IPvé Gateway	Senal No.		IP Address: Port Subnet Mask: IPv4 Gateway: IPv6 Address: IPv6 Gateway: IPv6 Pret: Length: Genal No: IPv6 Pret: Length: IPv6 P	Contrim

Figure A.1.1 Searching Online Devices



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

Search online devices manually

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

Note You can click \square or \square on each column heading to order the information;

you can click where 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.



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.

Appendix 2 Port Mapping

The following settings are for TP-LINK router (TL-R410). The settings vary depending

on different models of routers.

Steps:

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

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

Figure A.2.1 Select the WAN Connection Type

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

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

Figure A.2.2 Set the LAN parameters

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





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

client software.

In the speed dome, the 8200~8210 ports change with the 8000 port with a constant value of 200. E.g. if the 8000 port is changed to 8005, then the 8200~8210 ports should be changed to 8205~8215.

Example:

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

Steps:

- 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

108M Wireless Router Model No.: TL-WR641G / TL-WR642G	Virtual 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	3	554	192.168.10. 23	ALL 🗸	~		
Advanced Settings + 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) V Copy to ID 1 V						
			Previous Next	Clear All S	ave		

Figure A.2.3 Port Mapping

END

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