

Network Camera Web Setup Manual

Version 1.4

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## Note

The instructions in this manual apply to the following models.

- O6MDP2
- O2P12XH
- O4P30X
- 08VLB3
- 08VLD1
- 04P4X
- 04VLD1
- O4VLB3
- O4VFDM
- O4VFBM

# 1 Connection and Login

## **1.1Network Connection**

Connect the camera to a network and run the IP Scanner tool. IP Scanner can search for the device on the local network. The camera is set to DHCP mode by default.

Open up IP Scanner. In the device list, you can view the IP address, model number, and MAC address of each device. Select the applicable device and double click to open up the web viewer. See Figure 1-1.

🥏 Refresh	Open Web Page	Login	P Restart	Factory Default	Information	i About
tatus	Name	IP Address	MAC Address	Version		
Online	O2iD4M	192, 168, 56, 128	00:07:18:FF:03:73	1.0.57		
Online	02D4	192.168.56.143	5C:F2:07:1C:28:CA	1.0.53		
Online	VIP2PTZ12X	192, 168, 56, 157	00:07:D8:17:8A:68	1.3.7-X1_release		
Online	VIP2D1M	192.168.56.149	5C:F2:07:20:9D:AD	2.5.0-T3_release		
Online	O5MDP1	192.168.56.139	5C:F2:07:1C:3E:66	1.0.47		
Online	Eddie-O2DP8	192, 168, 56, 104	5C:F2:07:1C:1F:74	1.0.47		
Online	O5MDP1	192.168.56.124	5C:F2:07:1C:23:D8	1.0.47		
Online	O2DP9	192.168.56.147	5C:F2:07:1C:74:16	1.0.54		
Online	OB1	192, 168, 56, 105	5C:F2:07:1C:01:3B			
Online	OPTZ36XI	192.168.56.140	5C:F2:07:1C:03:1D			
Online	n/a	192, 168, 56, 130	5C:F2:07:24:00:1A	2236.0.0.1412190		
Online	n/a	192, 168, 56, 14	5C:F2:07:24:03:C2	2236.0.0.1409180		
Online	n/a	192.168.56.12	5C:F2:07:24:51:2E	2218.0.0.1409180		
Online	O2VLB2	192.168.56.146	4C:11:BF:8A:23:64			

Figure 1-1

# 1.2Log in

Open Internet Explorer and input network camera address in the address bar or double click the device in IP Scanner.

If it's the first time accessing the camera, the browser may request to install the Active-X plug-in. This is required to view live video in the browser. Go ahead and follow the steps to install the plug-in.

The login interface is shown as below. See Figure 1-2.

Please input your user name and password.

Default user name is **admin** and password is **1234**.

## Note: For security purposes, please change the password after initial login.

speco technologie	es		
Username:			
Password:			
	Login	Cancel	

Figure 1-2

There will be a prompt shown to recommend changing the default password. For direct connection installations on Speco's plug and play NVRs with built-in PoE ports, please leave the password as default. For other installations, it is highly recommended to change the password for security purposes.

For security purpos	es, it is recommended to change the password.	X
New Password	Weak OK Strong	
Confirm Password	Don't show me again	
	Ok Cancel	

Figure 1-3

# 2 Live View

After logging in, the live view screen will be shown. See Figure 2-1.

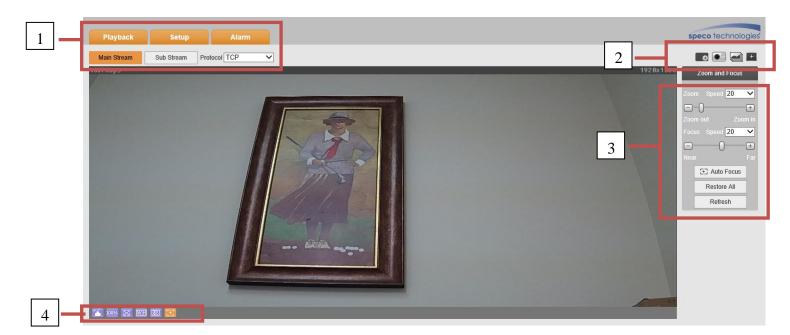


Figure 2-1

There are four sections:

- Section 1: System menu and stream selection
- Section 2: Function menu (snapshot, digital zoom, etc)
- Section 3: PTZ and zoom control menu (optional)
- Section 4: Live view display adjustment controls

## 2.1Stream Setup

Note: Some models do not have a second sub stream (Sub Stream 2). The setup interface is shown in Figure 2-2.



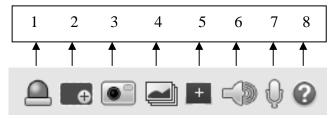
Figure 2-2

Please refer to the following table for detailed information.

Parameter	Function
Main stream	Click it to enable main stream video monitoring and click again to disable it.
Sub Stream 1	Click it to enable Sub Stream1 video monitoring and click again to disable it.
Sub Stream 2	Click it to enable Sub Stream 2 video monitoring and click again to disable it.
Protocol	You can select the streaming protocol from the dropdown list. There are three options: TCP/UDP/Multicast TCP is the default.

# 2.2Function Menu

The function menu interface is shown in Figure 2-3.





Please refer to the following table for detailed information.

	Parameter	Function
1	Relay-out	<ul> <li>If there is alarm output, status description is as follows:</li> <li>Red: means there is alarm output.</li> <li>Grey: means alarm has finished.</li> <li>Click on the button to force alarm to be on or off.</li> </ul>
2	Digital Zoom	<ul> <li>Click to enable digital zoom.</li> <li>Left-click and drag to define a zone. Within the digitally zoomed image, drag the mouse for digital pan/tilt function. Right-click to return to the original image.</li> <li>Scroll button on the mouse can also be used for digital zoom.</li> </ul>
3	Snapshot	Click on the button to take a snapshot. Image will be saved to the path that's defined in setup
4	Triple Snapshot	Click on the button to take 3 snapshots. Images will be taken at one image per second.

5	Easy focus	Displays two parameters for focusing: AF Peak and AF Max. AF Peak: Displays the video definition during the focus process. AF Max: optimal value for video definition. The closer AF Peak and AF Max are to each other, the better the focus effect is.
7	Audio	Toggle audio.
8	Talk	Toggle push to talk.
9	Help	Opens the help window.

## 2.3Live View Display Adjustment

The interface is shown as in Figure 2-4.



Figure 2-4

## 2.3.1 Image Adjustment

See Figure 2-5 for image adjustment.

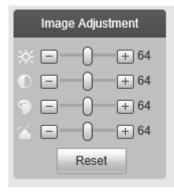


Figure 2-5

Click the button to display/hide the image control interface on the top right pane.

Please refer to the following table for detailed information.

Parameter		Function		
Video setup	ж	Brightness	Note: • All operations here apply to	
	lacksquare	Contrast	<ul> <li>web live view only.</li> <li>Please go to Setup -&gt; Basic</li> </ul>	
	9	Hue	Setup -> Image Setup to adjust the parameters on the camera	
	1	Saturation	itself.	
	Reset	Restore to system default setup.		

## 2.3.2 Original Size

Click this button to display the actual resolution size of the stream.

### 2.3.3 Full Screen

Click to go to full-screen mode. Double click the mouse or press the Esc button on the keyboard to exit full screen.

## 2.3.4 Width and Height Ratio

Click to display in the original ratio or fill the display window.

## 2.3.5 Fluency Adjustment

Depending on the network bandwidth, priority could be given to how the stream is delivered. The fluency mode prioritizes the video quality over time lag. The realtime mode prioritizes real-time streaming over video quality so it will try to minimize network lag as much as possible. Normal mode is balanced and is the default mode.

## 2.3.6 Rules Info

Displays any rule that has been set for analytics.

### 2.3.7 Zoom and Focus

Click to display the interface shown in Figure 2-6. Focus is triggered by zoom and will adjust automatically. The focus can be adjusted manually as well or with the Auto Focus function.

	Zoom and Focus				
Zoo	m Speed 20	~			
	0	+			
Zoo	m out Zoo	m in			
Foc	Focus Speed 20 🗸				
	-0	+			
Nea	r	Far			
	[+] Auto Focus				
	Restore All				
	Refresh				



Parameter	Function
Zoom	Adjust the focal length of the lens by clicking or long pressing "+""-"buttons. Speed is used to adjust the length of one step for a single click.
Focus Adjust the focus by clicking or long pressing "+", "-" buttons. Speed is used to adjust the length of one step for a single click.	
Auto-focus	Click to adjust the focus automatically. Note: Other lens operations are not allowed during this process.
Reset All	Resets the lens to zero position to eliminate any errors of the lens. This is normally used if many zoom adjustments have been done over time and the image quality is not clear.
Refresh	Synchronize the location of the slider bars after hardware zoom focusing.

# 2.4Fisheye Live View (if equipped)

This section applies to O6MDP2 only. In live view, the interface shown in Figure 2-7 will be shown on the right side of the window.



Figure 2-7

Note: The dewarping modes shown here in live view only affects what's being seen in the web viewer only. To change the actual dewarped mode of the stream itself, it must be first configured in Setup. See <u>section 5.1.1.7</u>.

Live view mode can be used to help set up the desired install and viewing modes. Install modes include ceiling, wall, and ground. Display modes include various dewarped images.

# 3 PTZ Control

See



Figure 3-1 for PTZ controls.

Parameter	Note
PTZ direction	<ul> <li>PTZ supports eight directions: left/right/up/down/upper left/upper right/bottom left/bottom right.</li> </ul>
Speed	The higher the value, higher the speed. Applies to pan, tilt, zoom, focus and iris.
Quick Position	Use mouse to draw a box of interest in the image. The camera will rotate and zoom to the region.



Figure 3-1

PTZ settings interface is shown in Figure 3-2.

PTZ Settings	l
Scan	
Preset	
Tour	
Pattern	
Assistant	
Pan	
Go to	

Figure 3-2

# 3.1Scan/Tour/Pattern/Pan (if equipped)

The interface is shown in Figure 3-3. Enter applicable values for tour and pattern. Click on start to begin the function and stop to end the function.



Figure 3-3

## **3.2Preset (if equipped)**

Preset interface is shown in Figure 3-4. Enter the preset value and press Go to.

PTZ Settir	ngs	
Preset	$\sim$	
1	1~80	
<b>Q</b> Go to		

Figure 3-4

# 3.3Go To

Go to interface is shown in Figure 3-5. Enter the horizontal angle, vertical angle, and zoom position to go to that exact position.

PTZ Settings	
Go to	-
Horizontal Angle(0~3600	
0	٦
Vertical Angle(0~900)	
0	
Zoom(1~128)	
1	
Go to	

Figure 3-5

# 4 Playback

Recordings on the SD card can be accessed through the web browser.

#### Note

Before playback, the SD card must be properly installed and configured. Refer to section 5.4 for detailed instructions.

## 4.1Playback

The SD card playback interface is shown in Figure 4-1.



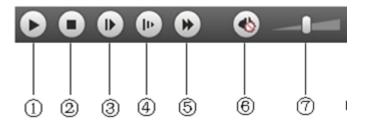
Figure 4-1

There are four sections:

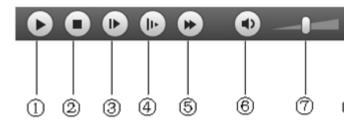
- Section 1: Play controls
- Section 2: Recorded data
- Section 3: Cut function
- Section 4: Recording type
- Section 5: Progress bar
- Section 6: Additional functions

## 4.1.1 Play Controls

The control functions are shown in Figure 4-2 and Figure 4-3.









Parameter	Function
1 Play	Press to start playing
② Stop	Press to stop playing
③ Play by frame	Press to go to the next frame. Note: Recording will be paused while this function is in use.
④ Slow	Press to slow play
5 Fast Forward	Press to fast forward
6 Audio mute	Toggle audio mute
⑦ Volume	Adjust audio volume

## 4.1.2 Playback File

In the calendar, dates highlighted blue have recorded data. See Figure 4-4.



Figure 4-4

Parameter	Function
File Type	<ul><li>Select "dav" for video playback.</li><li>Select "jpg" for picture playback.</li></ul>
Data Source	Default is SD card.

- Step 1. Click on a date highlighted in blue. The time bar will display recorded data. Green represents continuous recording, yellow represents motion recording, red represents sensor recording, and blue represents manual recording.
- Step 2. Click on a specific time to start playback from that time. See Figure 4-5.





Step 3. Click on file list button to list all available files for the selected date.

Step 4. Double click on a file in the list to start playback for this file. The file size, start time and end time will be displayed.

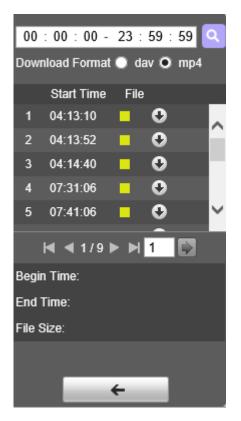


Figure 4-6

Parameter	Function	
Search	Search for recordings within the specified start time and end time for the date.	
Download Format	Two formats are available for download: dav and mp4.	
Download	<ul> <li>Click to download to the specified path. Path can be specified in Setup-&gt;Basic Setup-&gt;Video Setup-&gt;Path.</li> <li>The system does not support download and playback at the same time.</li> </ul>	
← Back	Click to go back to the calendar interface.	

## 4.1.3 Playback Cut

Note:

Playback cut function will automatically pause playback as cut and playback cannot be performed at the same time.

Step 1. Click on a time on the time bar.

- Step 2. Click on the cut icon to set the selected time as the start time.
- Step 3. Click on another time for the end time.
- Step 4. Click on the cut icon to set the end time.
- Step 5. Click on the Save button to save the file. See Figure 4-7.



Figure 4-7

## 4.1.4 Record Type

Only the selected recording type will be shown on the time bar. See Figure 4-8.



Figure 4-8

## 4.1.5 Progress Bar



Figure 4-9

Parameter	Function		
🕒 24hr	Changes the time bar to show a period of 24 hours		
O 2hr	Changes the time bar to show a period of the past 2 hours		
<b>O</b> 1hr	Changes the time bar to show a period of the past 1 hour		
O 30min	Changes the time bar to show a period of the past 30 minutes		

## 4.1.6 Assistant Function

Video playback assistant function is shown in Figure 4-10.



### Figure 4-10

Parameter	Function	
Digital Zoom	<ul> <li>Enable first and then click and drag on any area to digitally zoom in. Right mouse click to restore to the original size.</li> <li>Mouse scroll button can also be used.</li> </ul>	
Snapshot	Click to save a snapshot for the video currently in playback.	

## 4.1.7 Image Playback

See Figure 4-11 for the image playback interface. Under the file type dropdown menu, select "jpg" to switch to the interface.

Live	Setup	Alarm		speco technolog	gie
					G
			File Type		
			Source	SD Card 🗸	-21
			Sun Mor	n Tue Wen Thu Fri Sa	at
				2 3 4 5 6 9 10 11 12 13	-
			[14] [15		-
				23 24 <mark>25</mark> 26 2 30 31	7
				E	
D				-	
	apshot Type 🗹 All 🚦	🛛 General 📕 ✔ Ev	ent 📕 💟 Alarm 🔳		

Figure 4-11

# 5 Setup

To configure camera settings, from the live view screen, click on the "Setup" button at the top left.

# 5.1Basic Setup

## 5.1.1 Image Setup

### Note:

Available options may vary depending on the camera model.

### 5.1.1.1 **Picture**

## Step 1

Select "Basic Setup > Image Setup > Picture" as shown in Figure 5-1.

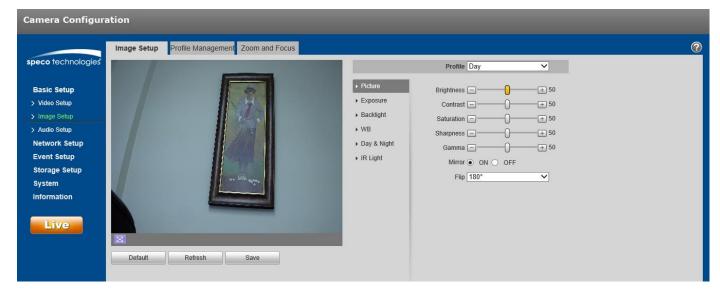


Figure 5-1

### Step 2

Set picture parameters; please refer to the following table for more details.

Parameter	Note
Brightness	Adjusts the image brightness. The image may become blurry if the value is set too high.
Contrast	Adjusts the image contrast. Dark areas become darker and bright areas become overexposed if the value is set too high. The image may become blurry if the value is set too low.

Parameter	Note		
Saturation	Adjusts the color saturation. The color becomes darker when the value is increased. If the value is set too low, the image will look black and white. This does not affect the overall brightness of the image.		
Sharpness	Adjusts the sharpness level of the edge on the image. Increasing the sharpness will also increase image noise.		
Gamma	Changes the image brightness and improve the dynamic display range of the image.		
Mirror	Flips the image horizontally.		
Flip	<ul> <li>Changes the display direction of the image.</li> <li>90°: Rotates the image clockwise 90°</li> <li>270°: Rotates the image counter-clockwise 90°</li> <li>180: Flips the image vertically.</li> <li>Note:</li> <li>Set the main stream resolution to 1920x1080 to use the flip function.</li> </ul>		

## Step 3 Click "Save" to save the settings.

## 5.1.1.2 **Exposure**

## Step 1

Select "Basic Setup > Image Setup > Exposure" as shown in Figure 5-2.

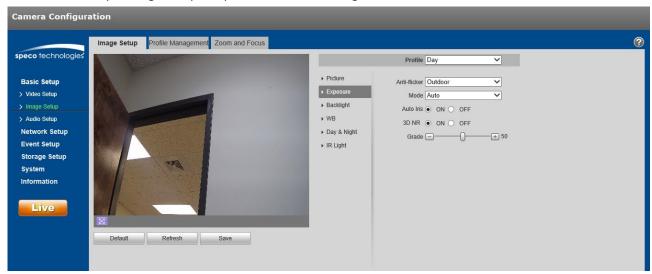


Figure 5-2

## Step 2

		- f-ll	-
Set exposure parameters.	niease refer to the	e tollowing table for more details	ς
Set exposure parameters,	picuse reler to the	e following table for more details	۶.

Parameter	Note
Anti-flicker	<ul> <li>Outdoor</li> <li>50Hz</li> <li>60Hz (used in the United States)</li> </ul>
	Camera exposure mode Note:
	<ul> <li>When "Anti-flicker" is set to "Outdoor", the "exposure mode" can be set as "gain priority" or "shutter priority" mode.</li> </ul>
	The options are:
Mode	• Auto: image brightness is adjusted automatically according to the environment.
	• Gain priority: The device can adjust automatically according to the gain range set during normal exposure range in different scenes.
	<ul> <li>Shutter priority: The device can adjust automatically according to the shutter range set during normal exposure range in different scenes.</li> </ul>
	• Manual: Set the gain value and shutter value manually.
Auto Iris	• The lens iris can auto adjust the size according to the environment after auto iris is enabled, then the image brightness will change accordingly.
	• The iris value reaches the max when disabling auto iris, the lens iris will not change according to the environment brightness.
3D NR	Multiple frames are processed and then noise is reduced by using the interframe information between the previous and the latter frame.
	This can be applied when 3D NR is enabled.
Grade	Increase the value for a bigger effect.

Step 3 Click "Save" to save the settings.

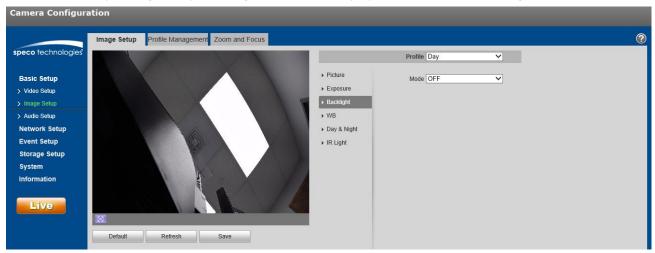
## 5.1.1.3 Backlight

Backlight mode options are BLC, WDR and HLC.

- BLC: compensates for high backlight areas behind a subject to make the subject more visible.
- WDR: balances washed out image with a large dynamic range. Typically used for lobbies, where the camera is pointing towards the door.
- HLC: reduces exposure from bright light sources such as headlights. This can be applied in areas such as toll gates, entrance and exit of the parking lots, etc.

#### Step 1

Select "Basic Setup > Image Setup > Backlight", which will display the interface shown in Figure 5-3.





## Step 2

Set the backlight parameter.

- BLC can be set to default mode or customized mode.
  - When "Default" mode is selected, the system adjusts automatically to the environment, to make the darkest part of the image to be seen.
  - When "Customized" mode is selected, a custom area in the image can be selected, to compensate for that area.
- When set to "WDR", the system will lower the brightness of the area with high brightness and enhance the brightness of the area with low brightness. This is very helpful in situations such as the camera in a lobby pointing towards the entrance, where there is a lot of light coming in.

### Note:

There may be video loss of a few seconds when the camera is switched from non WDR mode to WDR mode.

• When set to "HLC", the system will reduce the high brightness areas and decrease the size of the halo area.

#### Step 3

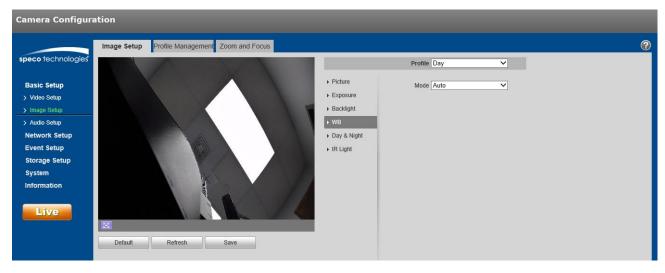
Click "Save" to save the settings.

### 5.1.1.4 **WB**

WB (white balance) is used to adjust colors in the image so that objects that appear white in person are shown as white in the camera.

### Step 1

Select "Basic Setup > Image Setup > WB", which will display the interface shown in Figure 5-4.





Step 2

Set the mode.

- When set to "Auto", the system will compensate automatically for the white balance depending on the environment.
- When set to "Natural", the system will compensate based on natural light settings.
- When set to "Street Lamp", the system will compensate based on an outdoor scene at night.
- When set to "Outdoor", the system will compensate based on most outdoor scenes with natural light and artificial light.
- When set to "Manual", red gain and blue gain values can be set manually.
- When set to "Regional Custom", a custom area can be defined in the image, which the system can then compensate for the different color temperatures of the images in the area.

### Step 3

Click "Save" to save the settings.

### 5.1.1.5 Day & Night

This is to set up color and monochrome switching.

#### Step 1

Select "Basic Setup > Image Setup > Day & Night", shown in Figure 5-5.

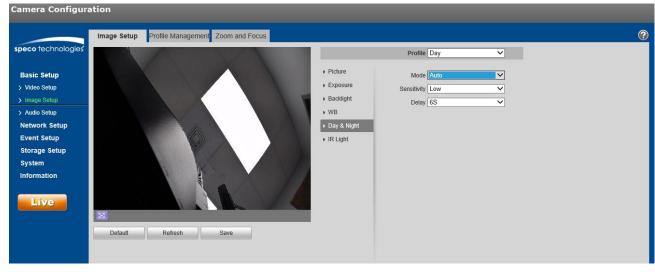


Figure 5-5

#### Step 2

To set the day & night parameters, refer to the following table for more details.

Parameter	Note				
Mode	<ul> <li>Color: The camera image is always displayed in color.</li> <li>Auto: The camera switch automatically between color and black &amp; white, depending on the light level.</li> <li>Black &amp; white: The camera image is always displayed in black &amp; white.</li> </ul>				
Sensitivity	The parameter can be set when the "Day/Night Mode" is set to "Auto". Higher sensitivity means that the mode will switch back and forth from color and black and white more easily.				
Delay	The parameter can be set when the "Day/Night Mode" is set to "Auto". This is to set a delay for switching between modes. This may be helpful in situations such as light flickering.				

#### Step 3

Click "Save" to save the settings.

#### 5.1.1.6 IR Light

IR LEDs can be controlled in this section.

#### Step 1

**Camera Configuration** ? Image Setup Profile Management Zoom and Focus speco technologies ~ Profile Day Picture Mode SmartIR ~ Basic Setup Exposure > Video Setun Backlight > Image Setup ► WB > Audio Setup Network Setup Day & Night Event Setup ▶ IR Light Storage Setup System Information Live Default Refresh Save

Select "Basic Setup > Image Setup > IR Light", shown in Figure 5-6.



Step 2

Set the mode.

- When set to "Manual", the brightness of the IR LEDs can be set manually.
- When set to "Smart IR", the system will adjust the LED brightness according to the actual scene.
- When set to "Off", IR LEDs will not operate even in darkness.

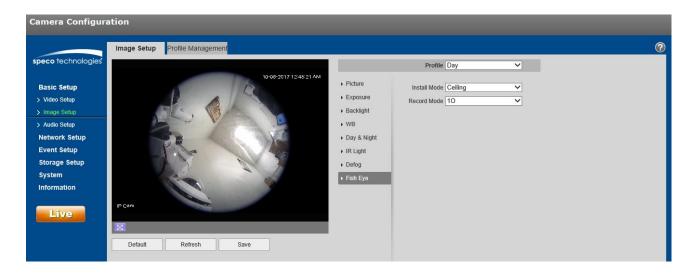
#### Step 3

Click "Save" to save the settings.

#### 5.1.1.7 Fisheye Setup

SecureGuard<sup>®</sup> VMS and the N32NX NVR is able to dewarp the fisheye view from the O6MDP2 IP camera model. For other recording options, the camera itself can be configured to send out a dewarped image in the stream itself.

Step 1 Select "Basic Setup > Image Setup > Fisheye". See Figure 5-7.



#### Step 2

Select the desired parameters. Description are listed in the table below

Parameter	Function
Installation Mode	Three installation modes are available: Ceiling, wall, and ground. The orientation of the image will vary depending on the mode.
Record Mode	<ul> <li>When a specific record mode is set, the output stream will be the dewarped image on the mode that was set. This is helpful for situations where a recorder does not have the ability to dewarp the image.</li> <li>After setting the mode, click Save to change to that view. Available record modes will vary according to the different installation modes.</li> <li>10: Original fisheye image. Note: Any option other than "10" will cause the fisheye viewing option to be hidden in live view.</li> <li>1P: 360° rectangular panoramic image.</li> <li>2P: Available for "Ceiling" or "Ground". Displays two 180° rectangular images.</li> <li>10+3R: original image + 3 independent sub images. All images support digital zoom and pan, which can be done in live view.</li> <li>1R: 1 independent sub images.</li> <li>2R: 2 independent sub images.</li> <li>4R: 4 independent sub images.</li> </ul>

#### 5.1.1.8 **Profile Management**

Image settings can be set to different values depending on the profile that's being used.

Step 1

Select "Basic Setup > Image Setup > Profile Management" to display the "Profile Management" tab.

Step 2

Set the profile.

• When set to "Normal", the system will monitor according to the normal configuration.

Camera Configura	ation
speco technologies	Image Setup     Profile Management     Zoom and Focus       Profile Management     • Normal · Full Time · Schedule
Basic Setup	Default Refresh Save
> Video Setup	
> Image Setup	
> Audio Setup	
Network Setup	
Event Setup	
Storage Setup	
System	
Information	
Live	

Figure 5-8

• When set to "Full Time", the profile can be set to always use the Day configuration or the Night configuration.

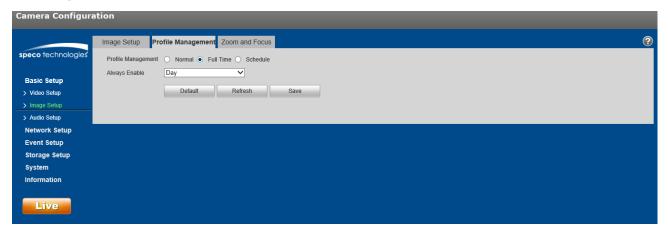


Figure 5-9

• When set to "Schedule", a specified period of the day can be used for the Day configuration and the rest of the day for the Night configuration. Click and slide the bar to set the time period.

Camera Configura	ration	
speco technologies	Image Setup         Profile Management         Zoom and Focus           Profile Management         Normal         Full Time         Schedule	0
Basic Setup > Video Setup > Image Setup > Audio Setup Network Setup Event Setup Storage Setup	Period setting 0.00 4.00 8.00 12.00 16.00 20.00 24.00 Day Night Default Refresh Save	
System Information		

Figure 5-10

#### Step 3

Click "Save" save the settings.

#### Note:

Click "Default" to restore the device to the default settings. Click "Refresh" to check the latest configuration of the device.

### 5.1.1.9 Zoom and Focus

#### Note:

This applies to only models with motorized lens.

#### Step 1

Select "Basic Setup > Image Setup > Zoom and Focus", shown in Figure 5-11.

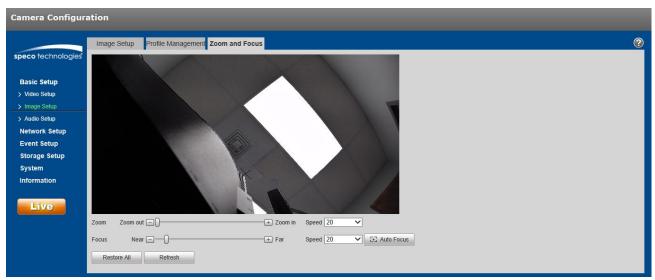


Figure 5-11

### Step 2

The focal length can be set by pressing "+", "-" for Zoom or dragging the slider bar. Adjust the speed as desired.

## Step 3

Focus can be adjusted manually, by pressing "+", "-" or dragging the slider block.

### Note:

- Click "Auto Focus" to adjust the focus automatically after a manual adjustment.
- If the image fails to focus after a few times of adjustment, click "Restore All' to reset the lens and remove the accumulative errors of the lens.

## 5.1.2 Video Setup

5.1.2.1 Video

#### Step 1

Select "Basic Setup > Video Setup > Video" shown in Figure 5-12.

Camera Configura	ation								
	Video Sna	apshot Over	ay F	201	Path				?
speco technologies	Main Stream					Sub Stream			
Basic Setup						Enable	Sub Stream 1	~	
> Video Setup	Encode Mode	H.264	~			Encode Mode	H.264	~	
> Image Setup	Smart Codec	OFF	~			Resolution	704x480	~	
> Audio Setup	Resolution	2688x1520	~			Frame rate	10	~	
Network Setup	Frame rate	20	~			Bitrate Mode Change	CBR	~	
Event Setup	Bitrate Mode Change	CBR	$\checkmark$			Reference Bit Rate	208-1024Kb/S		
Storage Setup	Reference Bit Rate	2560-10240Kb/S				Bitrate Mode	768	~	
System	Bitrate Mode	6144	~			GOP(group of pictures)	20	(10~150)	
Information	GOP(group of pictures)	20	(20~150)						
Live	Watermark Settings								
		Default	Refresh	Save					

Figure 5-12

## Step 2

Refer to the following table for more details on setting the video stream parameters.

Parameter	Function
Sub Stream Enable	Select "Enable" to enable the sub stream. Depending on the model, there may be a second sub stream available.
Encode mode	Select the compression to be used.
	Options are H.264, MJPEG, and H.265 (depending on the model)
Resolution	Multiple resolution options are available for each stream. Resolution is the equivalent to the size of the image. Higher minimum bit rate is required for higher resolutions.
Frame Rate	Select the applicable frame rate for each stream, measure in fps (frames per second).
Bit Rate Mode	CBR (constant) means that bitrate will be kept at a constant value even with various changes in the scene. VBR (variable) means that bitrate will be adjusted according to the scene changes.

Parameter	Function
Reference Bit Rate	Recommended bit rate range based on the resolution.
Bit Rate	Set the bit rate value. Note that higher bit rate provides a better image quality, but also results in more storage usage.
SVC (scalable video coding)	SVC can dynamically adjust the stream based on the network conditions. Can be turned on or off depending on the client being used.
GOP (group of pictures)	Determines how many P frames are allowed in between two I frames. I frame is the beginning frame of a unique scene. A GOP value of frame rate x 2 or lower is recommended.
Watermark Settings	Check to enable watermarking on the video.
Watermark Character	Enter the watermark text to be used for verification.

## Step 3

Click "Save" to save the settings.

## 5.1.2.2 Snapshot

The snapshot interface is shown as in Figure 5-13.

Camera Configura	tion					
	Video	Snapshot	Overlay	ROI	Path	<u>@</u>
speco technologies	Snapshot Type	General	~			
Basic Setup  Video Setup  Mage Setup Audio Setup Network Setup Event Setup	Image Size Quality Interval	3072x2048 5 1S Default	✓ ✓ Refresh	Save		
Storage Setup System Information						

Figure 5-13

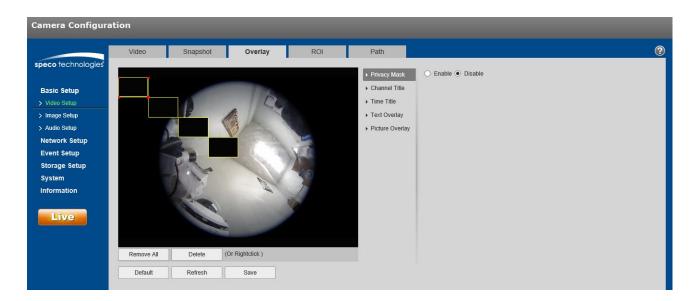
Please refer to the following sheet for detailed information.

Parameter	Function
Snapshot type	There are two modes: General (schedule-based) and Event (alarm- based).
Image size	Same resolution as the main stream resolution.

Quality	Sets the image quality, with 6 being the highest quality.
Interval	Interval of how many seconds between snapshots.

## 5.1.2.3 Video Overlay

Figure 5-14 shows the OSD options.





#### Please refer to the following sheet for detailed information.

Parameter	Function					
Privacy Masking	<ul> <li>Up to 4 privacy mask zones can be defined.</li> </ul>					
	<ul> <li>Privacy mask blocks out the image in the defined areas.</li> </ul>					
Time Title	• Time information can be shown in the video if enabled.					
	• The position can be changed by dragging it with the mouse					
Channel Title	• This shows the nickname of the device/channel on the screen.					
	<ul> <li>Position can be changed with the mouse.</li> </ul>					
Text Overlay	<ul> <li>User-defined text can be displayed.</li> </ul>					
	<ul> <li>Position can be changed with the mouse.</li> </ul>					
Picture Overlay	<ul> <li>An image can be set as an overlay onto the stream.</li> </ul>					
	• Requirements for picture uploading are listed in the section.					
	Note:					
	Text overlay and picture overlay cannot be used at the same time.					

5.1.2.4 ROI (Region of Interest)

Check "Enable" and use the mouse to define the desired region. Click "Save" to save the settings. See Figure 5-15.

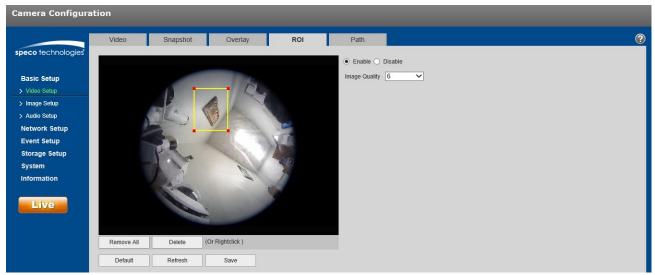


Figure 5-15

#### 5.1.2.5 Path

**Error! Reference source not found.**16 shows the interface for setting up storage paths for snapshots and recordings.

There are 4 types of save paths:

- Live view snapshot
- Playback snapshot
- Playback clip download
- Playback video cut download (within playback, a clip with a specific time period can be defined to be downloaded)

Click the Save button to save the setup.

Camera Configura	ation					
	Video	Snapshot	Overlay	ROI	Path	
speco technologies	Live Snapshot	C:\Users\Da	vid\WebDownload\LiveS	napshot	Browse	
	Playback Snapshot	C:\Users\Da	vid\WebDownload\Playb	ackSnapshot	Browse	
Basic Setup	Playback Download	C:\Users\Da	vid\WebDownload\Playb	ackRecord	Browse	
> Video Setup	Video Clips	C:\Users\Da	vid\WebDownload\Video	Clips	Browse	
<ul> <li>&gt; Image Setup</li> <li>&gt; Audio Setup</li> </ul>		Default	Save			
Network Setup		Doludit	Guve			
Event Setup						
Storage Setup						
System						
Information						

# 5.1.3 Audio

# Applies only to models with audio capability.

The audio interface is shown in Figure 5-17.

Camera Configura	ition
speco technologies	Audio Setup Encode
Basic Setup Video Setup Image Setup	Main Stream ✓ Enable Encode Mode G.711Mu ✓
Audio Setup     Network Setup	Sampling Frequency 8k V
Event Setup Storage Setup System Information	✓ Enable         Sub Stream 1         ✓           Encode Mode         G.711Mu         ✓           Sampling Frequency         8k         ✓
Live	Attribute Audioin Type LineIn  Noise Filter Enable
	Noise Filter Enable Microphone Volume - + 50 Speaker Volume - + 50
	Default Refresh Save

Figure 5-17

Please refer to the following sheet for detailed information.

Parameter	Function
Enable	Audio can be enabled only when the video stream is enabled
Encode mode	Select the applicable compression between G.711A, G.711Mu, G.726, and AAC. This applies to both the audio input and 2-way audio.
Sampling Frequency	Options are 8k, 16k, 32k, and 48k.
Audioln Type	Device needs to connect to an external audio input source under Line In mode. It does not need to connect to an external audio input source under Mic mode.
Noise Filter	Enable to filter relevant noise.
Microphone Volume	Adjust the microphone volume from 0 $\sim$ 100.
Speaker Volume	Adjust the speaker volume from 0 $\sim$ 100.

# 5.2Network Setup

# 5.2.1 IP Address Setup

For IP address setup, IPv4 and IPv6 are both supported. IPv4 supports static IP and DHCP. IPv6 supports static IP only. If the IP address is modified, the web viewer will automatically jump to the new IP address.

Camera Configuration					
	TCP/IP		?		
speco technologies	Host Name	Speco			
Basic Setup	Network Type	Wire(DEFAULT)			
Network Setup	Mode	O Static O DHCP			
> IP Address Setup	MAC Address	5c . f2 . 07 . 28 . 7d . 26			
> Connection	IP Version	Py4 v			
> PPPoE	IP Address	192. 168. 56. 107			
> DDNS Client	Subnet mask	255. 255. 0			
> IP Filtering					
> SMTP(Email)	Default Gateway	192. 168. 56. 1			
> UPnP	Preferred DNS Server	8.8.8.8			
> SNMP	Alternate DNS Server	64 . 72 . 64 . 10			
> Multicast	Enable ARP/Ping to set I	IP address service			
> 802.1x		Default Refresh Save			
> QoS					

Figure 5-18

Please refer to the following sheet for detailed information.

Parameter	Function
Host Name	Set the device name. Maximum of 15 characters is supported.
Network Type	Default is wired.
Mode	Select between static and DHCP. If setting to static, make sure that the network does have static IP addresses available for use. When using DHCP, make sure that the network has the capability to assign an IP address to the device. Typically, a residential or commercial router will have a built-in DHCP server.
Mac Address	Displays the Mac address of the device.
IP Version	Select IPv4 or IPv6.
IP Address	Can be modified if in static mode.
Subnet Mask	Define the subnet mask. For a typical case, the mask is 255.255.255.0.
Default Gateway	Define the gateway of the network. Example: if the IP address is 192.168.1.150, the gateway will be 192.168.1.1.

Preferred DNS	DNS IP address.
Alternate DNS	Alternate DNS IP address.
Enable ARP/Ping set device IP	This can be used to modify or set the device IP address by utilizing the Mac address.
address service.	Before the operation, make sure the network camera and the PC are in the same LAN.
	Refer to the steps listed below.
	Step 1: Set the network camera and the PC to be on the same LAN.
	Step 2: Get the Mac address from the label of the network camera.
	<b>Step 3</b> : Go to the cmd prompt and then enter the following commands.
	arp -s <ip address=""> <mac> ping -l 480 -t <ip address=""> Such as: arp -s 192.168.0.125 11-40-8c-18-10-11 ping -l 480 -t 192.168.0.125</ip></mac></ip>
	Step 4: Reboot the device.
	<b>Step 5</b> : Check if the setup is OK by looking at the output information such as "Reply from 192.168.0.125" from the command output lines.
	<b>Step 6</b> : Open the browser and then enter the IP address to access the camera.

# 5.2.2 Connection

# 5.2.2.1 Connection

The connection interface is shown in Figure 5-19.

Camera Configura	ation	
	Connection	ONVIF
speco technologies	Max Connection	10 (1~20)
Basic Setup	TCP Port	37777 (1025~65534)
Network Setup	UDP Port	37778 (1025~65534)
> IP Address Setup	HTTP Port	80
> Connection	RTSP Port	554
> PPPoE	HTTPs	
> DDNS Client	HTTPs Port	443
> IP Filtering		Default Refresh Save
> SMTP(Email)		
> UPnP		
> SNMP		
> Multicast > 802.1x		
> QoS		
,		

### Figure 5-19

Refer to the following table for more information. Typically, if the device is being installed on an NVR or SecureGuard in the same LAN, these ports can stay at the same values.

Parameter	Function
Max connection	Defines the number of max web connections that are allowed for the device. The value ranges from 1 to 20. Default connection amount is 10.
TCP port	Port range is 1025~65534. The default value is 37777.
UDP port	Port range is 1025~65534. The default value is 37778.
HTTP port	Port range is 1025~65524. The default value is 80.
RTSP port	The default value is 554.
HTTPs Port	HTTPs communication port, range is 1025~65534, default is 443.

Note:

- 0~1024, 37780~37880, 1900, 3800, 5000, 5050, 9999, 37776, 39999, 42323 are all special ports. User cannot modify them.
- Avoid using default values of other ports.

#### 5.2.3 **PPPoE**

The PPPoE interface is shown in Figure 5-20.

Enter the username and password that were provided by the ISP, and click "Enable". The network camera will automatically establish a network connection if the credentials are correct. The IP address will be automatically modified to the dynamic IP address of the acquired WAN.

#### Note:

Disable UPnP before enabling PPPoE, which can cause a conflict.

Camera Configur	ation		
	PPPoE		0
speco technologies	Enable		
Basic Setup	Username		
Network Setup	Password		
> IP Address Setup		Default Refresh Save	
> Connection			
> PPPoE			
> DDNS Client			
> IP Filtering			
> SMTP(Email)			
> UPnP			
> SNMP			
> Multicast			
> 802.1x			
> QoS			

Figure 5-20

# 5.2.4 **DDNS Client**

The DDNS interface is shown in Figure 5-21.

Enable DDNS and click "Save". If the connection is successful, the status will indicate that it is connected.

Camera Configura	ation	
	DDNS Client	0
speco technologies	Enable	
Basic Setup	Server Address	specoddns.net
Network Setup	Device Domain	
> IP Address Setup	Link State	Disconnected
> Connection		Note: The DDNS function has not been enabled
> PPPoE		Default Refresh Save
> DDNS Client		
> IP Filtering		
> SMTP(Email)		
> UPnP		
> SNMP		
> Multicast		
> 802.1x		
> QoS		

Figure 5-21

# 5.2.5 **IP Filtering**

The IP filtering interface is shown in Figure 5-22.

This can be set up so that only specified IP or Mac addresses can access the device.

Individual IP addresses or IP segments can be used.

After adding the IP/Mac addresses, click on Trusted Sites to enable filtering. Click "Save" to save the settings.

Camera Configuration							
	IP Filtering			0			
speco technologies	Trusted Sites						
Basic Setup	Trusted Sites						
Network Setup		IP address /MAC address	Modify	Delete			
> IP Address Setup							
> Connection							
> PPPoE							
> DDNS Client							
> IP Filtering							
> SMTP(Email)							
> UPnP							
> SNMP	Add IP/MAC			Remove All			
> Multicast	Default Refre	sh Save					
> 802.1x							
> QoS							

Figure 5-22

# 5.2.6 SMTP (Email)

The email interface is shown in Figure 5-23.

Camera Configur	ation		
	SMTP(Email)		?
speco technologies	SMTP Server	Must	
Basic Setup	Port	25	
Network Setup	Anonymity		
> IP Address Setup	Username		
> Connection	Password		
> PPPoE	Sender	none	
> DDNS Client	Authentication	None	
> IP Fittering			
> SMTP(Email)	Title	IP Camera event 🗹 Attachment	
> UPnP	Mail Receiver		
> SNMP			
> Multicast			
> 802.1x	Interval	0 Second(0~3600)	
> QoS	Health Mail	Update Period 60 Second(1~3600)	
Event Setup			
Storage Setup		Email Test	
System		Default Refresh Save	
Information			

Figure 5-23

Refer to the following table for more information.

Parameter	Function
SMTP Server	Email server, such as smtp.gmail.com, etc.
Port	Default value is 25. Modify as necessary.
Anonymity	For email servers which support anonymous email function. The information of the sender wouldn't be displayed.
User Name	The user name of the sender's email account.
Password	The password of sender's email account.
Sender	Sender's email address.
Authentication (Encryption mode)	Select SSL, TLS or none.
Title (Subject)	Enter email subject.
Attachment	A snapshot of the event can be sent out as an attachment if enabled.
Mail receiver	Enter receiver's email address here. Maximum of three addresses can be entered.

Parameter	Function
Interval	The send interval range is from 0 to 3600 seconds. 0 means there is no interval.
Email test	The system will send out an email once to test the connectivity. Before the email test, make sure to save the email setup information.

# 5.2.7 **UPnP**

UPnP can be used to allow port forwarding on a router without user intervention. Typically, residential routers have UPnP enabled while commercial routers have it disabled by default. See Figure 5-24 for the interface.

Camera Configuration								
	UPnP							?
speco technologies	Enable	Mode Manual 🗸	Router State Mapping Failed					
Basic Setup	Port Mapping							
Network Setup		Service Name	Protocol	Internal Port	External Port	Status	Modify	
		HTTP	WebService:TCP	80	8080	Mapping Failed	2	
> IP Address Setup	✓	TCP	PrivService:TCP	37777	37777	Mapping Failed	2	
> Connection	✓	UDP	PrivService:UDP	37778	37778	Mapping Failed	2	
> PPPoE	✓	RTSP	RTSPService:TCP	554	554	Mapping Failed	2	
> DDNS Client								
> IP Filtering								
> SMTP(Email)								
> UPnP								× 1
> SNMP	Default	Refresh Save						
> Multicast	Delault	Trellesii Save						
> 802.1x								
> QoS								

Figure 5-24

### 5.2.8 **SNMP**

The SNMP interface is shown in Figure 5-25.

Before using SNMP, make sure to install an SNMP management tool and set the parameters. After setup, the device must be restared to activate the new setup.

	SNMP
speco technologies	SNMP Version SNMP v1 SNMP v2 SNMP v3
Basic Setup	SNMP Port 161 (1~65535)
Network Setup	Read Community public
> IP Address Setup	Write Community private
> Connection	
> PPPoE	Trap Address
> DDNS Client	Trap Port 162
> IP Fittering	Read-only Username public
> SMTP(Email)	Authentication Type   MD5 O SHA
> UPnP	Authentication
> SNMP	Password
> Multicast	Encryption Type
> 802.1x	Encryption Password
> QoS	
Event Setup	Read&write private
Storage Setup	Username
System	Authentication Type  MD5 O SHA
Information	Authentication
	Password
Live	Encryption Type
	Encryption Password
	Default Refresh Save

Figure 5-25

Refer to the following table for more information. The parameters in the first table apply to all versions - v1, v2, and v3.

Parameter	Function
SNMP Version	Check the version to be used. If v3 is checked, the other version cannot be checked until v3 is unchecked.
SNMP port	The value ranges from 1 to 65535. The default port is UDP port 161.

Parameter	Function				
Read community	Read-only access to all SNMP targets, default is public.				
,	Note: Only number, letter, _, and – are supported.				
Write community	Read/write access to all SNMP targets, default is private.				
	Note: Only number, letter, _, and – are supported.				
Trap address	The destination address of the Trap information from the proxy				
	program of the device.				
Trap Address	Address for where to send Trap message.				
Trap Port	Port which sends Trap message, default is 162, range 1~65535.				

The parameters below are available when SNMP v3 is enabled.

Parameter	Function
SNMP Version	SNMP v3
Read-only Username	Default is public. Note: Name can consist of numbers, letters and underline.
Read/Write Username	Default is private. Note: Name only can be number, letter and underline.
Authentication	Select MD5 or SHA, default is MD5.
Authentication Password	Password must be not less than 8 characters.
Encryption	CBC-DES
Encryption Password	Password must be not less than 8 characters.

# 5.2.9 Multicast

The multicast interface is shown in Figure 5-26.

Multicast is a transmission mode of data packets. When there are multiple destinations that will receive the same video stream, multicast can be used to reduce bandwidth and CPU load on the device. To set up multicast, make sure that network switches/routers that are being used have multicast support.

Camera Configuration								
	Multicast						?	
speco technologies	Main Stream			Sub Stream				
Basic Setup Network Setup > IP Address Setup	<ul> <li>Enable</li> <li>Multicast Address</li> <li>Port</li> </ul>	224. 1. 0. 0 40000	(224.0.0.0~239.255.255.255) (1025~65534)	Enable     Multicast Address     Port	Sub Stream 1            224         1         2         4           40016	(224.0.0.0~239.255.255.255) (1025~65534)		
Connection     PPPoE     DDNS Client     IP Filtering		Default	Refresh Save					
SMTP(Email)     UPnP     SNMP     Multicast     802.1x     QoS								

Figure 5-26

Refer to the following table for more information.

Parameter	Function
Enable	Select to enable multicast function. Main stream and sub stream cannot be used at the same time.
Multicast address	Main/sub stream multicast default address is 224.1.2.4 and its range is 224.0.0.0 $\sim$ 239.255.255.255.
Port	Multicast port. Main stream is 40000, sub stream1 is 40016, sub stream2 is 40032 and the range is 1025 $\sim$ 65534.

# 5.2.10 **802.1x**

802.1x (port based network access control protocol) provides an authentication method for a device to connect to a LAN.

Camera Configura	ation	
speco technologies	802.1x	•
Basic Setup	Authentication	PEAP V
Network Setup	Username	none
> IP Address Setup	Password	
> Connection		Default Refresh Save
> PPPoE		
> DDNS Client		
> IP Filtering		
> SMTP(Email)		
> UPnP		
> SNMP		
> Multicast		
> 802.1x		
> QoS		

Figure 5-27

Refer to the following table for more information.

Parameter	Function
Authentication	PEAP (protected EAP protocol).
Username	Enter the user name, which is authenticated by the server.
Password	Enter the password.

# 5.2.11 **QoS**

The QoS (quality of service) interface is shown below. See Figure 5-28.

QoS can be set for stream viewing and control for the IP camera. Specific DSCP values (in decimal format) can be set for each, with the values ranging from 0 to 63.

Camera Configura	ation					
	QoS					0
speco technologies	Realtime Monitor	0	(0~63)			
Basic Setup	Command	0	(0~63)			
Network Setup		Default	Refresh	Save		
> IP Address Setup						
> Connection						
> PPPoE						
> DDNS Client						
> IP Filtering						
> SMTP(Email)						
> UPnP						
> SNMP						
> Multicast						
> 802.1x						
> QoS						

Figure 5-28

#### 5.2.12 HTTPs

For devices that have HTTPs capability, a certificate can be created or a signed certificate can be uploaded.

#### Step 1

Create a certificate or upload a signed certificate.

- To create a certificate, follow the directions below.
- 1. Select "Network Setup > HTTPs", shown in Figure 5-29.

Camera Configura	tion	
	HTTPs	?
speco technologies	Enable HTTPs	
Basic Setup	Create Certificate	
Network Setup	Create	
> IP Address Setup	Request Created	
> Connection	Request Created Delete Install Download	
> PPPoE	Install Signed Certificate	
> DDNS Client	Certificate Path Browse	
> IP Filtering	Certificate Key Path Browse Upload	
> SMTP(Email)	Certificate Installed	
> UPnP	Certificate Installed Delete	
> SNMP > Multicast	Attribute	
> 802.1x	· Mileste	
> QoS		
> HTTPs	Refresh Save	
Event Setup		
Storage Setup		
System		

Figure 5-29

2. Click "Create" and a dialog box will pop up, which is shown in Figure 5-30.

HTTPs		×
Country	US	*e.g. CN
IP or Domain name		* Must
Validity Period	365	Day*Range :1-5000
Province	none	]
Location	none	]
Organization	none	]
Organization Unit	none	]
Email		]
	Create Car	ncel

Figure 5-30

- 3. Fill in all fields and click "Create". A message will pop up stating that the certificate has been created successfully. Make sure that the IP address or the domain name is the same as that of the device.
- 4. Click "Install" and the certificate will be installed on the device.
- 5. Click "Download" and save the file on the PC.

🖗 Save As	- 4 <sub>7</sub>	Search Libraries	4
Organize 🕶			<u>⊾</u> = <b>• ()</b>
Nesktop Desktop Downloads Recent Places	Libraries Open a library to see your f	iles and arrange th	em by folder,
<ul> <li>Libraries</li> <li>Documents</li> <li>Music</li> <li>Pictures</li> <li>Videos</li> <li>Computer</li> <li>Local Disk (C:)</li> <li>DISK1_VOL2 (D:)</li> <li>DISK1_VOL3 (E:)</li> </ul>	Documents Library Music Library Pictures Library Videos Library		
File name: RootCert.cer			
Save as type: (*.cer)			
Hide Folders		Save	Cancel

Figure 5-31

6. Double click on the downloaded file. The system will display the shown in Figure 5-32.

	ficate Information
	t certificate is not trusted. To enable trust, certificate in the Trusted Root Certification
nutivitides	
Issued	to: test
Issued	by: test
Valid fr	rom 2016/ 7/ 8 to 2020/ 7/ 7

Figure 5-32

7. Click "Install Certificate" and the Certificate Import Wizard will show, shown in Figure 5-33.



Figure 5-33

8. Click "Next" and select "Place all certificates in the following store". Click on Browse and select "Trusted Root Certification Authorities".

ficate Import Wizard
Certificate Store
Certificate stores are system areas where certificates are kept.
Windows can automatically select a certificate store, or you can specify a location fo the certificate.
O Automatically select the certificate store based on the type of certificate
Place all certificates in the following store
Certificate store:
Trusted Root Certification Authorities Browse
earn more about <u>certificate stores</u>
<pre></pre>

Figure 5-34

9. Click "Next" and "Completing the Certificate Import Wizard" will show, which is shown in Figure 5-35.

Completing the Certi Wizard The certificate will be imported af You have specified the following s	ter you dick Finish.
Certificate Store Selected by Us Content	
۲ <u>۱۱۱</u>	
 < Back	Finish Cancel

Figure 5-35

10. Click "Finish", and "Security Warning" dialog box will show, which is shown in Figure 5-36.



Figure 5-36

11. Click "Yes" and a dialog box will pop up showing that the import was successful. Click "Ok" to complete downloading the certificate.





- To use the "Install Signed Certificate" option, follow the directions below.
- 1. In the HTTPs interface, select the certificate path and the certificate key path and click Upload.
- 2. Install the root certificate refer to steps 6~11 for details.
- 3. Check "Enable HTTPs" and click "Save". The device will reboot.
- 4. Use HTTPs to log in by entering the IP address in the browser, starting with **https**://. The browser will show a certificate error if the certificate is not installed, which is shown in Figure 5-38.

Certificate	Error: Navigation Blocked - Windows Internet Explorer
€	+ 2 https://10.15.15.211/
File Edit	View Favorites Tools Help
🚖 Favorites	建议网站 ▼      愛 网页快讯库 ▼
Certificat	e Error: Navigation Blocked
8	There is a problem with this website's security certificate.
	The security certificate presented by this website was not issued by a trusted certificate authority.
	Security certificate problems may indicate an attempt to fool you or intercept any data you send to the server.
	We recommend that you close this webpage and do not continue to this website.
	Ø Click here to close this webpage.
	😵 Continue to this website (not recommended).
	More information

Figure 5-38

# 5.3Event Setup

# 5.3.1 Video detection

5.3.1.1 Motion Detection

Step 1

Select "Event Setup > Video Detection > Motion Detection" to display the motion detection interface shown in Figure 5-39.

Camera Configur	ation						
	Motion Detection	Tampering	Scene Changing				<u> </u>
speco technologies	🗹 Enable						
Basic Setup	Working Period	Setup					
Network Setup	Anti-Dither	0	Second (0~100)				
Event Setup	Area	Setup					
> Motion Detection							
> Audio Detection	Record						
> Smart Plan	Record Delay	10	Second (10~300)				
> Analytics	Relay-out						
> Face Detection	Alarm Delay	10	Second (10~300)				
> Alarm	Send Email						
> Abnormality	Snapshot						
Storage Setup							
System		Default	Refresh	Save			
Information							
Live							



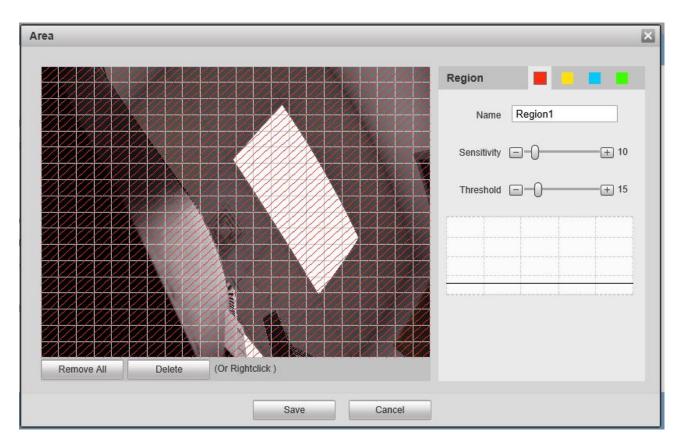
Step 2

Select "Enable" to enable motion detection.

Step 3

Set up motion detection zone.

1. Click "Setup" for Area to show the interface in Figure 5-40.





- Up to 4 different zones can be set, with a different set of defined areas, sensitivities, and threshold values. The name field is the nickname for the corresponding zone.
- Higher sensitivity value means that it is easier to trigger a motion event. The threshold value represents how much of the overall motion detection zone needs to have motion in order for the motion event to trigger. The entire video image is the defined as the motion zone by default.
- 4. Click "Save" to save the settings.

Refer to the table below for more details on the parameters.

Parameter	Function
Working Period	Set up the schedule for when motion alarms will get generated by the device.
	<b>Note</b> : In cases where the IP camera is recording to an NVR, if there is a period of time where motion alarm is disabled in the camera, then even if motion recording is enabled on the NVR, the camera will not send any motion alarms to the NVR during that time period.

Parameter	Function
Anti-dither	The device only generates one alarm during the anti-dither period. The value ranges from 0s to 100s.
Area	Motion zone setup, as described in this section.
Record	If enabled, when a motion alarm occurs, the device will record to the destination that's set under the Storage Setup > Destination section.
Record Delay	System can delay the record for specified time after alarm ended. The value ranges from 10s to 300s.
Relay out	Enable it for a relay out to an alarm device. This applies to only models with a relay output connection.
Alarm Delay	System can delay the alarm output for a specified time after the alarm ends.
Send Email	If enabled, the device can send out an email when a motion alarm occurs. An email address must first be set up in Network Setup.
Snapshot	Enable to generate a snapshot when a motion alarm occurs. The snapshot schedu can be set up in Storage>Schedule.

Click "Save" to save the settings.

### 5.3.1.2 Tampering

### Step 1

Go to the Tampering tab to display the interface of "Video Tampering" which is shown in Figure 5-41.

Camera Configur	ation						
	Motion Detection	Tampering	Scene Changing				?
speco technologies	Enable Video T	ampering 🗌 E	nable Defocus Detection				
Basic Setup	Working Period	Setup					
Network Setup							
Event Setup	Record						
> Motion Detection	Record Delay	10	Second (10~300)				
> Audio Detection	Relay-out						
> Smart Plan	Alarm Delay	10	Second (10~300)				
> Analytics	Send Email						
> Face Detection	Snapshot						
> Alarm		Defent	Defeat				
> Abnormality		Default	Refresh	Save			
Storage Setup							
System							
Information							
Live							

Figure 5-41

Set up the parameters. The parameters for alarm actions are the same as motion detection.

Step 3

Click "Save" to save the settings.

5.3.1.3 Scene Changing

Step 1

Go to the Scene Changing tab to display the interface of "Scene Changing". Scene Changing will generate an alarm when the scene in the video image changes drastically.

Step 2

Check "Enable" to enable the function of scene changing.

Step 3

Set up the parameters. The parameters for alarm actions are the same as motion detection.

Step 4

Click "Save" to complete the setup of scene changing.

# 5.3.2 Audio Detection

Step 1

Select "Event Setup > Audio Detection" to display the interface of "Audio Detection" which is shown in Figure 5-42.

Camera Configur	ation	
speco technologies	Audio Detection	
speco recimologies	Enable Input Abnormal	
Basic Setup	Enable Intensity Change	
Network Setup	Sensitivity + 50	
Event Setup	Threshold - + 50	
> Motion Detection		
> Audio Detection		
> Smart Plan		
> Analytics		
> Face Detection		
> Alarm		
> Abnormality	Working Period Setup	
Storage Setup	Anti-Dither 5 Second (0~100)	
System		
Information	Record	
	Record Delay 10 Second (10~300)	
Live	☑ Relay-out	
	Alarm Delay 10 Second (10~300)	
	Send Email	
	Snapshot	
	Default Refresh Save	

Figure 5-42

Refer to the table below for more details on the parameters.

Parameter	Function
Enable input abnormal	If enabled, an alarm will be triggered when there is abnormal audio being detected.
Enable intensity change	If enabled, an alarm will be triggered if the volume intensity of the audio exceeds the threshold.
Sensitivity	Sensitivity for abnormal audio volume.
Threshold	Threshold for volume intensity.
Working Period	Set up the schedule for when alarms will get generated by the device.

Parameter	Function
Anti-dither	The device only generates one alarm during the anti-dither period. The value ranges from 0s to 100s.
Record	If enabled, when an alarm occurs, the device will record to the destination that's set under the Storage Setup > Destination section.
Record Delay	System can delay the record for specified time after alarm ended. The value ranges from 10s to 300s.
Relay out	Enable it for a relay out to an alarm device. This applies to only models with a relay output connection.
Alarm Delay	System can delay the alarm output for a specified time after the alarm ends.
Send Email	If enabled, the device can send out an email when an alarm occurs. An email address must first be set up in Network Setup.
Snapshot	Enable to generate a snapshot when an alarm occurs. The snapshot schedule can be set up in Storage>Schedule.

# Step 3 Click "Save" to save the settings.

# 5.3.3 Smart Plan (if equipped)

Specific models may have different types of intelligent video functions. Only one type of analytic function can be utilized at a time, which can be enabled in Smart plan.

### Step 1

Select "Event Setup > Smart Plan", as shown in Figure 5-43.

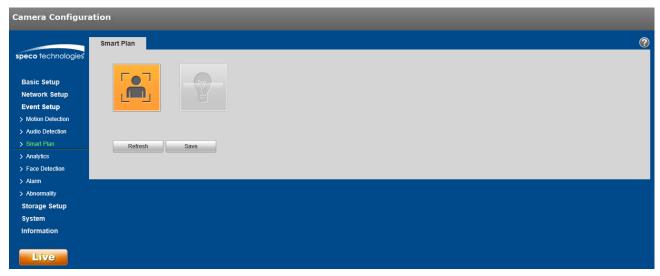


Figure 5-43

Step 2

Click "Save" to save the settings.

# 5.3.4 Intelligent Video

Basic requirements of scene selection to take into consideration:

- The total size of the target should not be larger than 10% of the image.
- The target size in the image should be larger than 15x15.
- The difference of the brightness value between the target and the background should not be less than 10 gray levels.
- Target should appear in the image at least 2 seconds continuously. The movement distance has to be bigger than the width of the target itself and no less than 15 pixels.
- It is recommended to not use analytics in areas where lighting changes frequently and surfaces are reflective.

#### 5.3.4.1 Analytics

#### 5.3.4.1.1Tripwire

An alarm will be triggered when the target crosses the line according to the movement direction that has been set.

There needs to be some time from when the target appears to when the target is confirmed, so there should be some space on both sides of the line.

# Step 1 Select "Event Setup > Analytics".

#### Step 2

Click " 🕆 " to set the rule name and select the rule type as "Tripwire" as shown in Figure 5-44.

Camera Configuration			
speco technologies	IVS	🖉 No. Rule Name Rule Type 💠	
Basic Setup Network Setup		✓     1     Rule1	
Event Setup  Motion Detection  Audio Detection  Smart Plan	A MARKA	Parameter Setup Working Period Setup	
Analytics     Face Detection     Alarm		Direction A<->B	
> Abnormality Storage Setup System Information	Clear	Record Delay         10         Second (10~300)           Relay-out         Alarm Delay         10         Second (10~300)	
Live	Target Filter     • Max Size     8191     Draw Target       O     Min Size     •     0     Clear	□ Send Email	

Figure 5-44

#### Step 3

Click "Draw Rule" to draw a line in the scene. Click the right mouse button to complete the setting.

#### Step 4

Click "Draw Target" to set the size of the target in the image.

#### Step 5

Refer to the following table for more details on the parameters.

Parameter	Function
Working Period	Set up the schedule for when alarms will get generated by the device.
Direction	Sets the direction of tripwire. Options are: A->B, B->A, or A<->B.
Record	If enabled, when an alarm occurs, the device will record to the destination that's set under the Storage Setup > Destination section.

Parameter	Function
Record Delay	System can delay the record for specified time after alarm ended. The value ranges from 10s to 300s.
Relay out	Enable it for a relay out to an alarm device. This applies to only models with a relay output connection.
Alarm Delay	System can delay the alarm output for a specified time after the alarm ends.
Send Email	If enabled, the device can send out an email when an alarm occurs. An email address must first be set up in Network Setup.
Snapshot	Enable to generate a snapshot when an alarm occurs. The snapshot schedule can be set up in Storage>Schedule.

Click "Save" to save the settings.

#### 5.3.4.2 Intrusion

Intrusion includes these actions: cross and appears.

- Cross means that an alarm will be triggered when the target enters or exits the area.
- Appears means that an alarm will be triggered when the target appears in the area.

#### Step 1

In the IVS tab, click " 🗗 " to set rule name and select the rule type as "Intrusion" as shown in Figure 5-45.

Camera Configura	ation	
	IVS	?
speco technologies	Source State Stat	
Basic Setup	✓ 1 Rule1 🚺	
Network Setup		
Event Setup		
> Motion Detection		
> Audio Detection	Parameter Setup Drawing is completed!	
> Smart Plan	Working Period Setup	
> Analytics		
> Face Detection	Action 🖌 Appears 🗋 Cross	
> Alarm	Record	
> Abnormality	Record Delay 10 Second (10~300)	
Storage Setup	Flam	
System	Draw Rule Clear Alarm Delay 10 Second (10-300)	
Information		
	Target Filter   Max Size 6191 - 6191 Draw Target	
Live	O Min Size 0 * 0 Clear ☑ Snapshot	
	Default Refresh Save	

Figure 5-45

Click "Draw Rule" to draw an area in the image.

### Step 3

Click "Draw Target" to set the size of the target in the image.

### Step 4

Refer to the following table for more details on the parameters.

Parameter	Function
Working Period	Set up the schedule for when alarms will get generated by the device.
Action	Select Appears or Cross.
Record	If enabled, when an alarm occurs, the device will record to the destination that's set under the Storage Setup > Destination section.
Record Delay	System can delay the record for specified time after alarm ended. The value ranges from 10s to 300s.
Relay out	Enable it for a relay out to an alarm device. This applies to only models with a relay output connection.
Alarm Delay	System can delay the alarm output for a specified time after the alarm ends.
Send Email	If enabled, the device can send out an email when an alarm occurs. An email address must first be set up in Network Setup.
Snapshot	Enable to generate a snapshot when an alarm occurs. The snapshot schedule can be set up in Storage>Schedule.

#### Step 5

Click "Save" to save the settings.

#### 5.3.4.3 Abandoned Object

Abandoned object means that an alarm will be triggered if an object has been left in the scene for longer than the time limit that has been set.

To avoid false alarms caused by people or vehicles, the size of the object generally should be smaller than people or vehicles.

Step 1

In the IVS tab, click " 🗘 " to set the rule name and select the rule type as "Abandoned Object" as shown in

Figure 5-46.

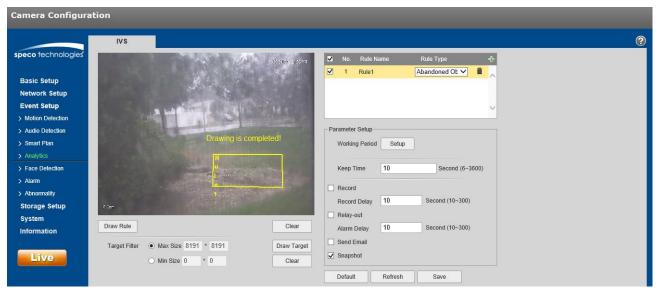


Figure 5-46

Click "Draw Rule" to draw an area in the image.

#### Step 3

Click "Draw Target" to set the size of the target in the image.

#### Step 4

Refer to the following table for more details on the parameters.

Parameter	Function
Working Period	Set up the schedule for when alarms will get generated by the device.
Keep time	Time limit before alarm is triggered.
Record	If enabled, when an alarm occurs, the device will record to the destination that's set under the Storage Setup > Destination section.
Record Delay	System can delay the record for specified time after alarm ended. The value ranges from 10s to 300s.
Relay out	Enable it for a relay out to an alarm device. This applies to only models with a relay output connection.
Alarm Delay	System can delay the alarm output for a specified time after the alarm ends.
Send Email	If enabled, the device can send out an email when an alarm occurs. An email address must first be set up in Network Setup.
Snapshot	Enable to generate a snapshot when an alarm occurs. The snapshot schedule can be set up in Storage>Schedule.

# Step 5 Click "Save" to save the settings.

## 5.3.4.4 Missing Object

Missing object means that an alarm will be triggered if an object has been removed from the scene for longer than the time limit that has been set.

#### Step 1

In the IVS tab, click " 😳 " to set the rule name and select the rule type as "Missing Object", as shown in Figure 5-

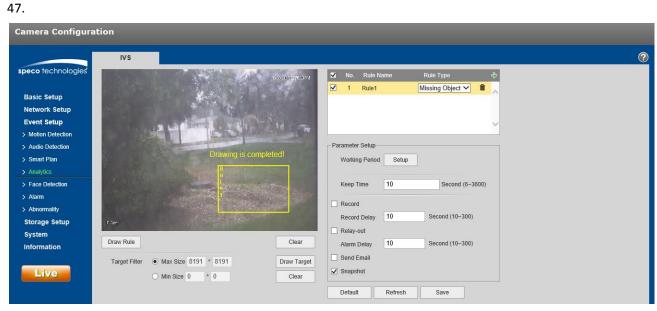


Figure 5-47

Step 2

Click "Draw Rule" to draw an area in the image.

### Step 3

Click "Draw Target" to set the size of the target in the image.

#### Step 4

Refer to the following table for more details on the parameters.

Parameter	Function
Working Period	Set up the schedule for when alarms will get generated by the device.

Parameter	Function
Keep time	Time limit before alarm is triggered.
Record	If enabled, when an alarm occurs, the device will record to the destination that's set under the Storage Setup > Destination section.
Record Delay	System can delay the record for specified time after alarm ended. The value ranges from 10s to 300s.
Relay out	Enable it for a relay out to an alarm device. This applies to only models with a relay output connection.
Alarm Delay	System can delay the alarm output for a specified time after the alarm ends.
Send Email	If enabled, the device can send out an email when an alarm occurs. An email address must first be set up in Network Setup.
Snapshot	Enable to generate a snapshot when an alarm occurs. The snapshot schedule can be set up in Storage>Schedule.

Click "Save" to save the settings.

# 5.3.5 Face Detection

### Step 1

Select "Event Setup > Face Detection" to display the "Face Detection" interface, shown in Figure 5-48.

Camera Configur	ation		
	Face Detection		?
speco technologies	p. 32.0047 (0.0 74	Enable	
Basic Setup		Working Period Setup	
Network Setup		Enable Face Enhancement	
Event Setup > Motion Detection	the second s	Record	
> Audio Detection		Record Delay 10 Second (10~300)	
> Smart Plan		Relay-out	
> Analytics		Alarm Delay 10 Second (10~300)	
> Face Detection		Send Email	
> Alarm		✓ Snapshot	
> Abnormality Storage Setup	FGer (	Enable Face Exposur	
System	1 veli	Face Target (+) 50 (0~100)	
Information	Target Filter   Max Size 8191 * 8191  Draw Target	Brightness	
	O Min Size 0 * 0 Clear	Face Exposure + 50 (0~100) Second	
Live		Detection Interval	
		Default Refresh Save	

Figure 5-48

### Step 2

Select "Enable" to enable the face detection function.

Click "Draw Target" to set the size of the target in the image.

### Step 4

Refer to the following table for more details on the parameters.

Parameter	Function
Working Period	Set up the schedule for when alarms will get generated by the device.
Enable Face Enhancement	Select "Enable Face Enhancement" to enhance the face image when the stream quality is very low.
Record	If enabled, when an alarm occurs, the device will record to the destination that's set under the Storage Setup > Destination section.
Record Delay	System can delay the record for specified time after alarm ended. The value ranges from 10s to 300s.
Relay out	Enable it for a relay out to an alarm device. This applies to only models with a relay output connection.
Alarm Delay	System can delay the alarm output for a specified time after the alarm ends.
Send Email	If enabled, the device can send out an email when an alarm occurs. An email address must first be set up in Network Setup.
Snapshot	Enable to generate a snapshot when an alarm occurs. The snapshot schedule can be set up in Storage>Schedule.

# Step 5

Click "Save" to save the settings.

# 5.3.6 Heat Map

#### 5.3.6.1 Heat Map

Heat map is the set of heat statistics of a moving object, for which a report can be generated. The color range is from blue to red, where blue means the minimum heat value and red means the maximum heat value. When heat map is used, mirroring, view angle changes and heat map's original data will be cleared.

#### Step 1

Select "Event Setup > Heat Map > Heat Map" and to display the "Heat Map" interface, shown in Figure 5-49.

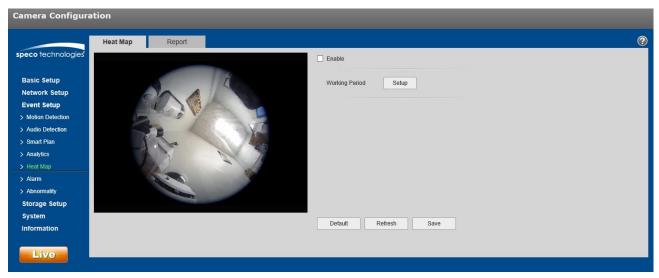


Figure 5-49

#### Step 2

Select "Enable" to enable the heat map function.

### Step 3

Set the schedule, in the same way as motion schedule setup.

### Step 4

Click "Save" to save the settings.

#### 5.3.6.2 **Report**

Step 1

Select the Report tab, as shown in Figure 5-50.

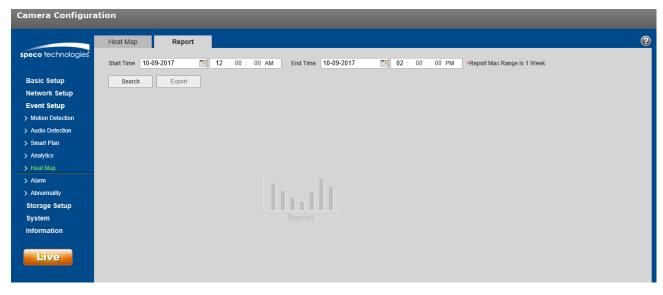


Figure 5-50

#### Step 2

Set the begin time and the end time for the report.

#### Step 3

Click "Search" to generate the statistics and then click "Export" to export the report.

### 5.3.7 Alarm

Camera Configura	ation		
	Alarm		?
speco technologies	Enable		
Basic Setup	Relay-in	Alarm1 V	
Network Setup	Working Period	Setup	
Event Setup	Anti-Dither	0 Second (0~100) Sensor Type NO V	
> Motion Detection			
> Audio Detection	Record		
> Smart Plan	Record Delay	10 Second (10~300)	
> Analytics	Relay-out		
> Face Detection	Alarm Delay	10 Second (10-300)	
> Alarm	Send Email		
> Abnormality	Snapshot		
Storage Setup			
System		Default Refresh Save	
Information			
Live			

Figure 5-51

Parameter	Function
Enable	Check to enable relay output.
Relay-in	The default is alarm 1. Some models may have alarm 2.
Sensor Type	Select between normally open (NO) and normally closed (NC).

### 5.3.8 Abnormality

Abnormality includes: No SD Card, Capacity Warning, SD Card Error, Disconnection, IP Conflict and Unauthorized Access.

Note:

Models with an SD card slot have these functions: No SD card, capacity warning, and SD card error.

Camera Configura	ation				
	SD Card	Network Illegal Access			0
speco technologies	Event Type	Capacity Warning			
Basic Setup	Enable				
Network Setup	Capacity Limit	10 %(0~99)			
Event Setup	Relay-out				
> Motion Detection	Alarm Delay	10 Second (10~300			
> Audio Detection	Send Email				
> Smart Plan		Default Refresi	Save		
> Analytics		Dolulit	ouve		
> Face Detection					
> Alarm					
> Abnormality					
Storage Setup					
System					
Information					
Live					

Figure 5-52

Please refer to the following sheet for detailed information.

Parameter	Function
Enable	Check to enable alarm when SD card is abnormal.
Relay out	Enable it for a relay out to an alarm device. This applies to only models with a relay output connection.
Alarm Delay	System can delay the alarm output for a specified time after the alarm ends.
Send email	If enabled, the device can send out an email when an alarm occurs. An email address must first be set up in Network Setup.
SD Card Capacity Limit	An alarm can be generated when the free space of the SD card is less than the capacity set here.

For offline device or IP conflict, the scenario is similar to SD card alarm. See Figure 5-53.

Camera Configura	ation				
speco technologies	SD Card Event Type	Network Illegal Ac	ess		0
Basic Setup Network Setup	Enable     Record				
Event Setup > Motion Detection	Record Delay	10 Second (10	300)		
> Audio Detection	Alarm Delay	10 Second (10	300)		
<ul> <li>Smart Plan</li> <li>Analytics</li> </ul>		Default Re	resh Save		
<ul> <li>Face Detection</li> <li>Alarm</li> </ul>					
> Abnormality Storage Setup					
System Information					
Live					



For illegal access, when the credentials are entered illegally, an alarm will be generated each time, up to the number of the times that has been set. When the limit is exceeded, the user account will be locked for 30 minutes.

Camera Configura	ation			
speco technologies	SD Card	Network	illegal Access	e •
Basic Setup	<ul> <li>Enable</li> <li>Login Error</li> <li>Relay-out</li> </ul>	5	time (3~10)	
Network Setup Event Setup > Motion Detection	Alarm Delay	10	Second (10~300)	
<ul> <li>Audio Detection</li> <li>Smart Plan</li> </ul>		Default	Refresh	Save
<ul> <li>Analytics</li> <li>Face Detection</li> </ul>				
> Alarm > Abnormality Storage Setup				
System Information				
Live				

Figure 5-54

# 5.4Storage Management

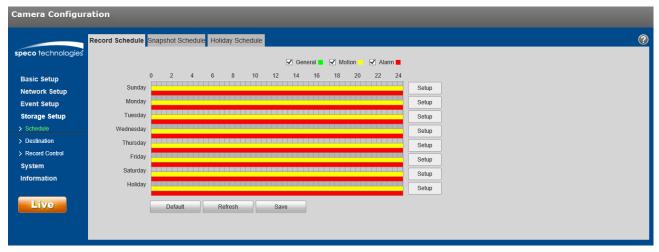
### 5.4.1 Schedule

### Note:

The record mode found in the Record Control section must be set to Auto or Manual for the device to record according to the set schedule.

### 5.4.1.1 Record Schedule

Step 1. Click on the Record Schedule tab under "Storage Setup > Schedule", as shown in Figure 5-55.





Step 2. Click on Setup on the right for the day for the schedule to be set, as shown in Figure 5-56.

- Set the time periods as necessary. Up to six periods can be set for each day. The periods can be copied to each necessary day of the week.
- Three types of recording can be scheduled: General (continuous), Motion, and Alarm.

### Note:

The schedule can also be set up by dragging the mouse over a time period in the Record Schedule interface (Figure 5-55).

Setup		×
	🖌 Sunday 🗌 Monday 🗌 Tuesday 💭 Wednesday 💭 Thursday 💭 Friday 💭 Saturday 💭 Holiday	
Period1	00 : 00 : 00 - 23 : 59 : 59 General 🗸 Motion 🖌 Alarm	
Period2	00 : 00 : 00 - 23 : 59 : 59 General Motion Alarm	
Period3	00 : 00 : 00 - 23 : 59 : 59 General Motion Alarm	
Period4	00 : 00 : 00 - 23 : 59 : 59 General Motion Alarm	
Period5	00 : 00 : 00 - 23 : 59 : 59 General Motion Alarm	
Period6	00 : 00 : 00 - 23 : 59 : 59 General Motion Alarm	
	Save Cancel	

Figure 5-56

Step 3. Click Save to return to the record schedule interface.

- Green color stands for continuous record/snapshot.
- Yellow color stands for motion detection record/snapshot.
- Red color stands for alarm record/snapshot.

Step 4. Click Save to save the settings.

#### 5.4.1.2 Snapshot Schedule

The Snapshot schedule is set up in the same manner as Record Schedule. The interface is shown in Figure 5-57.

Camera Configuration							
	Record Schedule	inapshot Schedule Holiday Schedule			?		
speco technologies		🗹 General 📕 🗹 Motion 📁 🗹 Alarm 📕					
Basic Setup		0 2 4 6 8 10 12 14 16 18 20 22 24					
Network Setup	Sunday		Setup				
Event Setup	Monday		Setup				
Storage Setup	Tuesday		Setup				
> Schedule	Wednesday		Setup				
> Destination	Thursday		Setup				
> Record Control	Friday		Setup				
System	Saturday		Setup				
Information	Holiday						
			Setup				
Live		Default Refresh Save					



#### 5.4.1.3 Holiday Schedule

Specific days such as holidays can be set up to have a different schedule.

Step 1. Click on the Holiday Schedule tab, as shown in Figure 5-58.

Camera Configura	ation	
speco technologies	Record Schedule Snapshot Schedule Holiday Schedu	le 🕜
Basic Setup Network Setup Event Setup Storage Setup > Schedule > Destination > Record Control System Information	Calendar         Oct         ✓           Sun         Mon         Tue         Wen         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         31	



- Step 2. Select a date to set as a holiday. The selected date will be highlighted in yellow.
- Step 3. Check Record and/or Snapshot for the desired recording mode and then click on Save.
- Step 4. In the Record Schedule interface or the Snapshot Schedule interface, click on setup next to Holiday and set up the time periods accordingly.
- Step 5. Click Save to save the settings.

#### 5.4.2 **Destination**

#### 5.4.2.1 Path

The destination interface is shown in Figure 5-59.

Each of the 3 recording modes can be set up under 3 options: Local (SD card), FTP, and NAS. This applies to both record and snapshot. Only one option can be chosen.

	Path	Local	FTP	NAS					(
eco technologies	Record				Snapshot				
	Event Type	Scheduled	Motion Detect	Alarm	Event Type	Scheduled	Motion Detect	Alarm	
Basic Setup	Local	$\checkmark$	$\checkmark$	$\checkmark$	Local	$\checkmark$	$\checkmark$		
Network Setup	FTP				FTP				
Event Setup	NAS				NAS				
Storage Setup	Default	Refresh	Save						
Schedule	Delaut		Gave						
Destination									
Record Control									
System									
Information									



#### 5.4.2.2 Local

The local interface is shown in Figure 5-60.

In this interface, information about the Micro SD card is displayed. The card can be also formatted through this interface.

Camera Configurat	ion						
	Path	Local	FTI		NAS		(?
speco technologies	Device I	Name	Status	Attribute		Used Capacity/Total Capacity	
Basic Setup Network Setup							^
Event Setup Storage Setup > Schedule							
Destination     Record Control							~
System Information	Read Only	Read & Write	Hot Swap	Refresh			Format
Live							



#### 5.4.2.3 FTP

The FTP interface is shown in Figure 5-61.

Check the box to enable the FTP function. Enter the applicable FTP connection information. Click the test button to check if the FTP server can be contacted properly.

Camera Configura	ation				
	Path	Local	FTP	NAS	0
speco technologies	Enable				
	Server Address	0.0.0.0			
Basic Setup	Port	21	(0~65535)		
Network Setup	User Name	anonymity			
Event Setup	Password				
Storage Setup					
> Schedule	Remote Directory	share			
> Destination	Emergency (Local)				
> Record Control		Default	Refresh	Save	
System					
Information					
Live					

Figure 5-61

### 5.4.2.4 NAS

Check the box to enable the NAS function. Enter the applicable connection information. See Figure 5-62.

Camera Configur	ation				
	Path	Local	FTP	NAS	0
speco technologies	Enable				
	Server Address	0.0.0.0			
Basic Setup	Remote Directory				
Network Setup					
Event Setup		Default	Refresh Sa	ave	
Storage Setup					
> Schedule					
> Destination					
> Record Control					
System					
Information					
Live					

Figure 5-62

### 5.4.3 Record control

The record control interface is shown in Figure 5-63.

Camera Configur	ation		
	Record Control		?
speco technologies	Pack Duration	8 Minute (1~120)	
Basic Setup	Pre-event Record	5 Second (0~5)	
Network Setup	Disk Full	Overwrite V	
Event Setup	Record Mode	Auto O Manual O Off	
Storage Setup	Record Stream	Main Stream V	
> Schedule		Default Refresh Save	
> Destination			
> Record Control	-		
System	_		
Information			
Live			

Figure 5-63

Refer to the following table for more information.

Parameter	Function
Pack Duration	Refers to the duration of each file that gets saved. Default is 8 minutes.
Pre-record	Refers to the duration of the recording before the actual event that gets saved.
Disk Full	<ul> <li>Stop: Stops recording if storage is full</li> <li>Overwrite: Starts to overwrite the oldest recordings if storage is full</li> </ul>
Record mode	Auto / Manual / Off. "Off" must not be chosen for the schedule to take effect.
Record stream	Choose between main stream and sub stream.

# 5.5 System

### 5.5.1 General

The General interface is shown in Figure 5-64.

Camera Configura	ation				
speco technologies	General Device Name	Date&Time 80037071548			•
Basic Setup Network Setup Event Setup Storage Setup System > General > User Admin	Language Video Standard TVOut	English V NTSC V ON V Default Refr	sh Save		
> Factory Default > Import/Export > Auto Maintain > Upgrade Information Live					

Figure 5-64

Parameter	Function
Device Name	Nickname for the device can be set here. By default, the serial number of the device is shown.
Video Standard	Displays the video standard, which is NTSC for North America.
TV Out	Some models will have a TV output option. This can be turned on/off.

The Date & Time interface is shown as in Figure 5-65.

Camera Configura	ation		
	General	Date& Time	?
speco technologies	Date Format	Month-Day-Year 🗸	
Basic Setup	Time Format	12-Hour-based System V	
Network Setup	Time Zone	GMT-05:00	
Event Setup	Current Time	10-13-2017 03 : 55 : 56 PM Sync PC	
Storage Setup	DST Enable		
System	DST Type	O Date	
> General	Start Time	Mar V 2nd V Sunday V 02 : 00 : 00 AM	
> User Admin	End Time	Nov V 1st V Sunday V 02 : 00 : 00 AM	
> Factory Default	Synchronize with	NTP	
> Import/Export	NTP Server	pool.ntp.org	
> Auto Maintain	Port	123	
> Upgrade	Update Period	30 Minute (0~30)	
Information		Default Refresh Save	
Live			

### Figure 5-65

Please refer to the following sheet for detailed information.

Parameter	Function
Date format	Select the display format of the date from the dropdown list.
Time Format	Select between a 24-hour display and a 12-hour display.
Time zone	Set the time zone of the device.
Current Time	Current time of the device. This can be set manually.
Sync PC	Click this button to save the device time as the PC time.
DST Enable	If the location utilizes Daylight Saving Time (DST), check the Enable box and set up the start and end times for DST.
Synchronize with NTP	Check the box to enable NTP.
NTP server	Set the time server address.
Port	Set the time server port.
Update period	How often the device should synchronize the time with the time server.

### 5.5.2 User Admin

- For user names and user groups, the maximum character length is 31 characters, which can be made up of numbers, letters, underline, hyphen, dot, and @.
- Password can be 0~32 characters in numbers and letters only.
- A specific user can belong to only one group.

#### 5.5.2.1 User Name

See Figure 5-66 for the User Name interface.

Camera Configura	ition								
	User Admin								?
speco technologies	Anonymous Login								
Basic Setup	User Name	Group							_
Network Setup	No.	User Name	Group Name		Remark		Modify	Delete	
Event Setup	1	admin	admin		admin 's account		2	0	
Storage Setup									
System									
> General									
> User Admin									
> Factory Default									
> Import/Export									-
> Auto Maintain	Authority List Live	Playback	Record Control	Backup	User Admin	Alarm	Log Search		
> Upgrade	Clear Log	Upgrade	Auto Maintain	General	Video/Audio	Schedule/Destination	Network		
Information	Abnormality	Motion Detection	Default/Import/Export	Image Setup	IVS				
Live									_
	Add User								

### Figure 5-66

**Enable anonymous login:** If enabled, no username and password are required to view the live stream. Click on Logout on the live view page to go back to the login page.

Add user: For creating a user and adding the user to a group. User rights can also be set. See Figure 5-67.

Note that a user's rights cannot not exceed the rights of the group.

Add User		X
User Name Password Confirm Password Group Remark	Must Must Must The password needs to contain at least 1 character! Weak OK Strong admin	
Authority List	All     Live     Playback     Record Control     Backup  Save Cancel	

Figure 5-67

### 5.5.2.2 Group

The group management interface is shown as in Figure 5-68.

Camera Configura	ation								
	User Admin								?
speco technologies	Anonymous Login								
Basic Setup	User Name	Group							_
Network Setup	No.	Group Name admin			Remark administrator group		Modify	Delete	
Event Setup	2	user			user group		2		
Storage Setup									
System									
> General									
> User Admin									
> Factory Default									
> Import/Export	Authority List								
> Auto Maintain	Live	Playback	Record Control	Backup	User Admin	Alarm	Log Search		
> Upgrade	Clear Log	Upgrade	Auto Maintain	General	Video/Audio	Schedule/Destination	Network		
Information	Abnormality	Motion Detection	Default/Import/Export	Image Setup	IVS				
Live	Add Group								

Figure 5-68

### Add group: See Figure 5-69.

Enter the group name and then check the applicable boxes for the rights of the group.

Add Group			X
Group Remark		Must	
Authority List	All	-	
	Live	~	]
	Playback		
	Record Control		
1	Backup	· · · ·	
	Save Cancel		

Figure 5-69

### 5.5.3 Factory Default

The factory default interface is shown in Figure 5-70.

The "Default" option resets every setting of the device while the "Keep Network Settings" option retains pertinent network setup information of the device.

Camera Configur	ration	
	Factory Default	?
speco technologies	Default	
Basic Setup	Keep Network Settings	
Network Setup		
Event Setup		
Storage Setup		
System		
> General		
> User Admin		
> Factory Default		
> Import/Export		
> Auto Maintain		
> Upgrade		
Information		
Live		

Figure 5-70

### 5.5.4 Import/Export

The interface is shown in Figure 5-71. This can be used to set up multiple devices of the same model with the same system configuration.

Camera Configuration					
	Import/Export	?			
speco technologies	Backup Path				
Basic Setup	Import Export				
Network Setup					
Event Setup					
Storage Setup					
System					
> General					
> User Admin					
> Factory Default					
> Import/Export					
> Auto Maintain					
> Upgrade					
Information					
Live					

Figure 5-71

Parameter	Function
Import	Import a configuration file to the device.
Export	Export the current configuration of the device to the local PC.

### 5.5.5 Upgrade

The upgrade interface is shown in Figure 5-72. Firmware of the device can be updated here.

Select the applicable firmware file (file extension is ".bin") and then click the Upgrade button to begin the firmware update.

Camera Configura	ation			
speco technologies	Upgrade			0
	Select Firmware File	Browse	Upgrade	
Basic Setup				
Network Setup				
Event Setup				
Storage Setup				
System				
> General				
> User Admin				
> Factory Default				
> Import/Export > Auto Maintain				
> Upgrade				
Information				
momuton				
Live				

Figure 5-72

# 5.6 Information

### 5.6.1 **Version**

The version interface is shown in Figure 5-73.

In this section, the model number, firmware version and date, serial number of the device, and tech support contact information are shown.

Camera Configura	ation	
	Version	0
speco technologies	Device Type	O8E2M
Basic Setup	Software Version	2.460.0001.1.R, Build Date: 2017-04-10
Network Setup	WEB Version	3.2.1.386722
Event Setup	ONVIF Version	2.42
Storage Setup	S/N	80037071548
System	supportPhone	1-800-645-5516
Information	supportEmail	techsupport@specatech.com
Version     Log     Online User	2017 Speco Techno	ologies. All rights reserved.
Live		

Figure 5-73

### 5.6.2 **Log**

See Figure 5-74 for the system log interface.

Camera Configura	tion								
	Log								0
speco technologies	Start Time	10-12-2017	04 : 23 : 03 PM	End Time	10-13-2017	04 : 23 : 03 PM			
Basic Setup Network Setup	Type No.	All	Search Log Time	_	_	User Name	_	Event	
Event Setup Storage Setup									
System									
Information > Version									
Log     Online User									
Live									
	Detailed Informa	ation							
	User Name: Type:								
	Content:								
									(1/1 ▶ ▶ 1 🗼
	Backup								Clear

Figure 5-74

Please refer to the following sheet for log parameter information.

Parameter	Function				
Start time	Set the start time of the requested log.				
End time Set the end time of the requested log.					
Туре	Select the type of information to display.				
Log information	Select one item to view detailed information about the entry.				
Backup	Can be used to back up log files to the PC.				

### 5.6.3 Online User

The online user interface is shown in Figure 5-75.

Information about all users who are currently logged into the device is shown.

Camera Configuration								
	Online User				0			
speco technologies	No.	Username	User Local Group	IP Address	User Login Time			
	1	admin	admin	192.168.56.101	10-13-2017 03:11:49 PM			
Basic Setup								
Network Setup								
Event Setup								
Storage Setup								
System								
Information								
> Version								
> Log	Refresh							
> Online User								
Live								

Figure 5-75

Note:

- This manual is for reference only. Slight differences may be found in depending on the model.
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- If further explanation is needed, please contact Speco Technologies technical support.

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