



Installation & Operation Manual

V2008PTZ-IR Roughneck PTZ Dome Camera

XX341-00-00



Vicon Industries Inc. does not warrant that the functions contained in this equipment will meet your requirements or that the operation will be entirely error free or perform precisely as described in the documentation.

This system has not been designed to be used in life-critical situations and must not be used for this purpose.

Document Number: 8009-8341-00-00 Product specifications subject to change without notice.
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PREFACE

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Acknowledgements

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Safety Information

Before installing and using the device, note the following precautions:

- Read all instructions carefully.
- Follow all warnings and cautions in this manual.
- Do not place the unit on an unstable surface, cart, or stand.
- Do not use the camera in extreme temperature conditions. Please use the camera within -40°F to 149°F (-40°C to 65°C). Air vent is required at high temperature.
- Do not use or store the camera in humid environment. It may cause poor image quality.
- Do not use the camera in unstable lighting conditions. Inconsistent lighting or flickering may cause poor image.
- Never use the camera close to gas or oil leak. It may not operate properly.
- Do not disassemble the camera. There is no user serviceable part inside.
- Do not drop the camera or apply force on it. It may cause a malfunction.
- Avoid using the system near water, in direct sunlight, or near a heating device.
- Never face the camera to strong light for long periods of time. It may damage the sensor.

RoHS Compliance



Vicon RoHS Environmental Policy and Status Update

Vicon is a global citizen for building the digital infrastructure. We are committed to providing green products and services, which are compliant with European Union RoHS (Restriction on Use of Hazardous Substance in Electronic Equipment) directive 2011/65/EU, to be your trusted green partner and to protect our environment.

RoHS restricts the use of Lead (Pb) < 0.1% or 1,000ppm, Mercury (Hg) < 0.1% or 1,000ppm, Cadmium (Cd) < 0.01% or 100ppm, Hexavalent Chromium (Cr6+) < 0.1% or 1,000ppm, Polybrominated biphenyls (PBB) < 0.1% or 1,000ppm, and Polybrominated diphenyl Ethers (PBDE) < 0.1% or 1,000ppm.

In order to meet the RoHS compliant directives, Vicon has established an engineering and manufacturing task force to implement the introduction of green products. The task force will ensure that we follow the standard Vicon development procedure and that all the new RoHS components and new manufacturing processes maintain the highest industry quality levels for which Vicon are renowned.

The model selection criteria will be based on market demand. Vendors and suppliers will ensure that all designed components will be RoHS compliant.

How to recognize Vicon RoHS Products?

For existing products where there are non-RoHS and RoHS versions, the suffix "(LF)" will be added to the compliant product name.

All new product models launched after January 2013 will be RoHS compliant. They will use the usual Vicon naming convention.

Installation Recommendations

Ensure you have a stable, clean working environment. Dust and dirt can get into components and cause a malfunction. Use containers to keep small components separated.

Adequate lighting and proper tools can prevent you from accidentally damaging the internal components. Most of the procedures that follow require only a few simple tools, including the following:

- A Philips screwdriver
- A flat-tipped screwdriver
- A grounding strap
- An anti-static pad

Using your fingers can disconnect most of the connections. It is recommended that you do not use needle-nose pliers to disconnect connections as these can damage the soft metal or plastic parts of the connectors.

Technical Support and Assistance

1. For the most updated information of Vicon products, visit Vicon's website at www.vicon-security.com.
2. For technical issues that require contacting our technical support team or sales representative, please have the following information ready before calling:
 - Product name and serial number
 - Detailed information of the peripheral devices
 - Detailed information of the installed software (operating system, version, application software, etc.)
 - A complete description of the problem
 - The exact wordings of the error messages

Warning!

1. Handling the unit: carry the unit with both hands and handle it with care.
2. Maintenance: to keep the unit clean, use only approved cleaning products or clean with a dry cloth.

Conventions Used in this Manual



Warning:
Information about certain situations, which if not observed, can cause personal injury. This will prevent injury to yourself when performing a task.



Caution:
Information to avoid damaging components or losing data.



Note:
Provides additional information to complete a task easily.

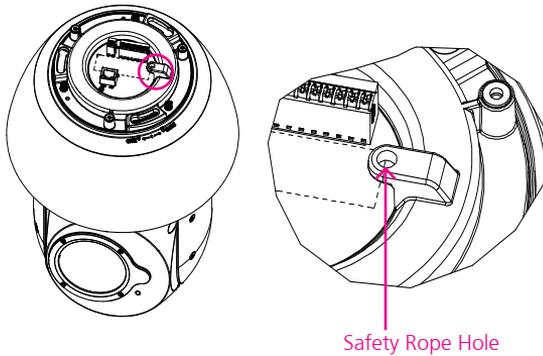
Package Contents

The V2008PTZ-IR package contain the following accessories:

Name	Quantity
IP camera	1
Stainless Steel Screw	3
Quick Installation Guide	1



The camera accessory bag includes a safety rope. Refer to the illustration below for the location of the safety rope hole.



CHAPTER 1: PRODUCT INTRODUCTION

Overview



Hardware Specifications

Camera

- Image Sensor: 1/1.8 CMOS Progressive Sensor Sony IMX678
- Lens: 6.5-230 mm, F1.5-5.3; supports OIS (optical image stabilization)
- Horizontal field of view: 60.4°–2.0°
- Vertical field of view: 35.9°–1.2°
- Lens Adjustment: Motorized zoom and focus, autofocus, P-iris
- Day & Night: Automatically removable IR-cut filter
- IR distance up to 1312 ft (400 meters)
- TWDR: 130dB
- Pan: 360° endless, 0.05°–720°/s; Tilt: -20° to +90°, 0.05°–540°/s
- Zoom: 35x optical, digital: 8x
- Preset positions: 256 preset positions; 32 presets per tour
- Preset Accuracy: 0.01°
- Privacy Mask: 32 individual 3D privacy masks
- Image Stabilization: OIS
- Defog (Optical): Support
- Speed Dry: Support
- Analytics: Object Tracking (people)

Video and Audio

- Video Resolution: 3840 (H) x 2160 (V)
- Frame Rate: 4K@30fps
- Video Compression: H.265/H.264/M-JPEG
- Video Streaming: Multiple, individually configurable streams in H.265/H.264/MJPEG Bit Rate/Frame Rate/GOP Length/CBR in H.265/H.264
- Image settings: Contrast, color, brightness, sharpness, white balance, exposure control, noise reduction, rotation, manual shutter time, defogging, backlight compensation
- Audio Streaming: Two-way
- Audio Compression: G.711 8KHz/8 bits (A-Law/U-Law)

Network

- Interface: RJ-45, 10/100/1000 BASE-T
- Support Protocols: TCP/IP, UDP, ICMP, IPv4, IPv6, SNMP v2c/v3, QoS, HTTP, HTTPS, SSL, SMTP, FTP, RTSP, UPnP, DHCP, DNS, NTP, RTP, RTCP, DynDNS, 802.1x
- Notification: Trigger alarm output, e-mail / FTP and record Snapshot to Network storage or SD card (support for Micro SD/SDHC/SDXC for storage)
- Browser: Chrome/Firefox/Safari/Microsoft Edge
- ONVIF: Profile S, G, T

I/O Connector

- Audio in/out port: Line IN/Line OUT
- DI/DO: DI 1x, DO 1x
- Micro SD Card Slot: Support

Event Management

- Event Trigger: Motion detection, alarm handler, tampering alarm, , network loss detection, trigger scheduled
- Pre Recording: Support

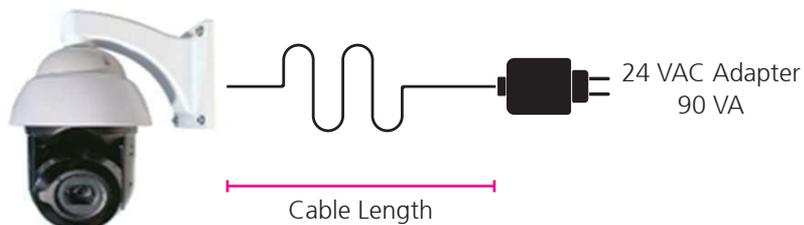
Power

- AUX: 24 VAC (+20%/-10%)/90 W
- PoE++: IEEE 802.3bt class 8 (71 W)

General

- Power Consumption: PoE 71 W (Class 8)
- Operating temp.: -40°F to +149°F (-40°C to +65°C)
- Waterproof: IP66
- Safety Hook: Support
- Vandal Resistant: IK10 (upper)
- Sunshield: Support
- Dimensions: 9.8*14.2*(ø)7.5 in. (250*362*(ø)190 mm)
- Weight: 11 lb (5 kg)
- Certification (compliant): CE/FCC

Important Guidelines for Camera Power Adapter Usage



The power adapter image shown above is for illustrative purposes; the actual power adapter may vary depending on the region of shipment.

Cable loss calculation

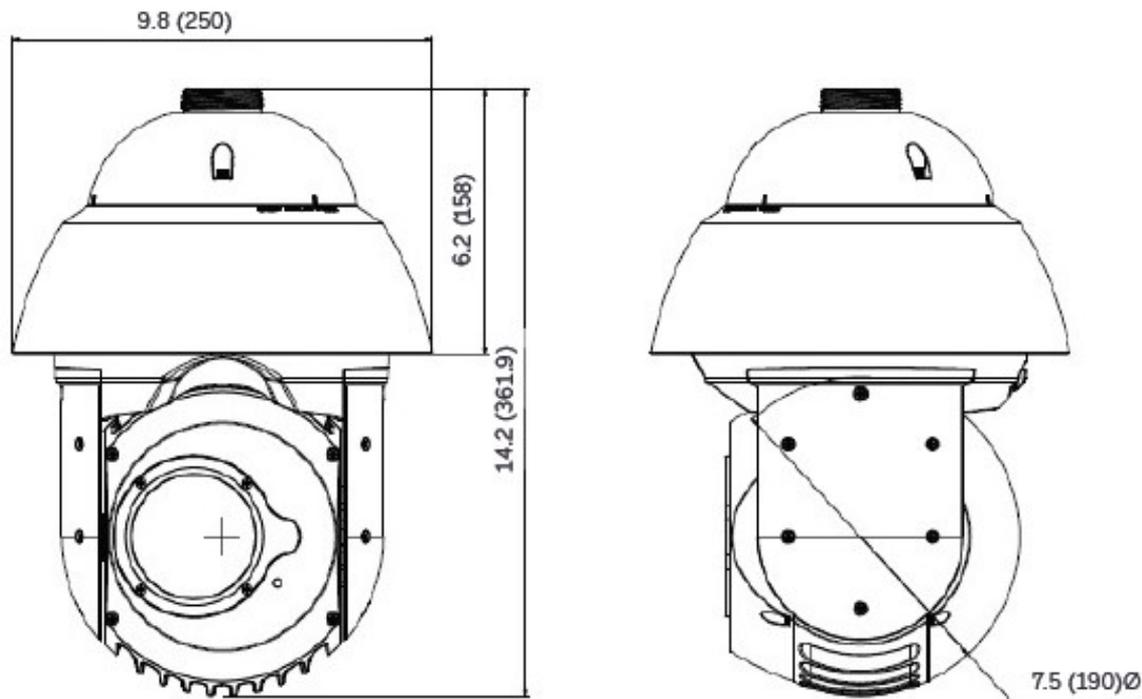
Based on the camera power consumption of 90 VA (24 VAC, 3.3 A)						
AWG No.	Resistance (mΩ/M)	Cable Length (m)	Total Resistance (mΩ)	Input Volt.	Volt. Drop	Camera Side Volt.
15	10.45	35	365.75	24	2.41	21.59
16	13.17	25	329.25	24	2.17	21.83
16	13.17	50	658.5	26	4.35	21.65
17	16.61	30	498.3	24	3.29	20.71
18	20.95	20	419	24	2.77	21.23

To address the issue of cable loss that may occur during camera usage, follow the steps below to improve voltage drop caused by long-distance cables:

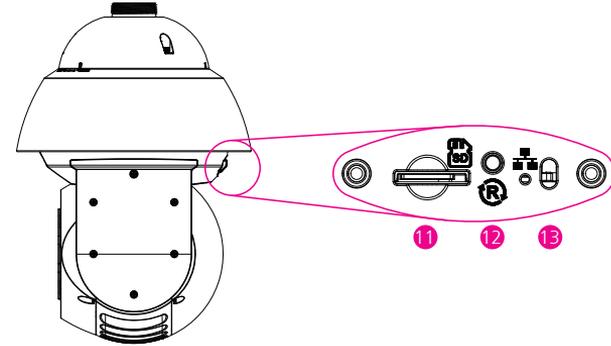
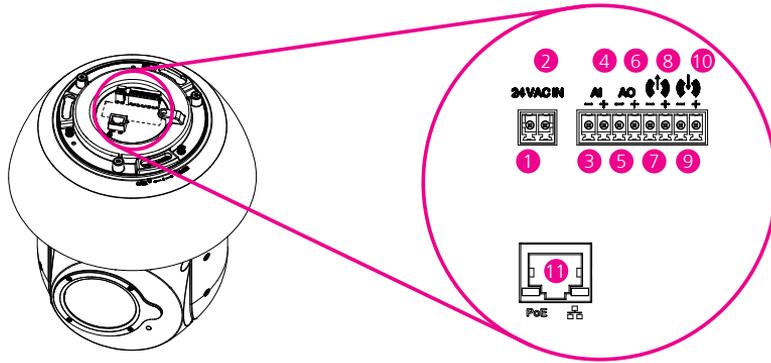
1. Suitable for long-distance applications: If the cable length exceeds 20 meters, it is recommended to use PoE bt (Class 8) power supply method.
2. Increase AC voltage: Suggest increasing the AC voltage from 24V to 26V to compensate for voltage drop caused by long-distance cables.
3. Use appropriate cables: Select AWG 16 cables to ensure sufficient conductivity and reduce resistance and loss.
4. Place the AC power adapter near the camera: Position the 24 VAC power adapter near the camera to shorten the cable length, reduce resistance, and minimize voltage drop.

Note that these methods can help resolve voltage drop issues caused by long distance cables, ensuring proper camera operation.

Dimensions [in. (mm)]



DI/DO & Function Description

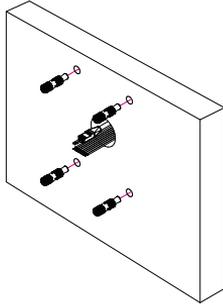


No.	Item	Description	No.	Item	Description
1	AC	24 VAC INPUT	7	⚡ -	LINE OUT-
2	AC	24 VAC INPUT	8	⚡ +	LINE OUT+
3	AI-	ALARM IN-	9	⚡ -	LINE IN-
4	AI+	ALARM IN+	10	⚡ +	LINE IN+
5	AO-	ALARM OUT-	11	RJ-45	PoE LAN Port
6	AO+	ALARM OUT+			

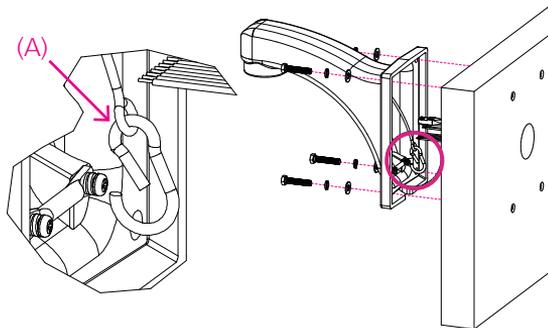
No.	Item	Description
11	SD	SD Card Slot
12	R	Reset Button
13	⏻	Power Switch

Wall Mounting (V1001-WM)

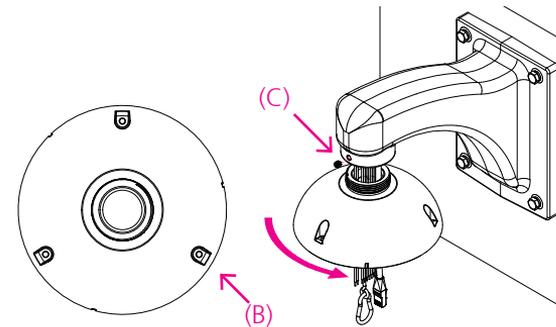
1. Use the mount as a template to mark the location of the mounting holes. Fasten stainless steel anchors (x4).



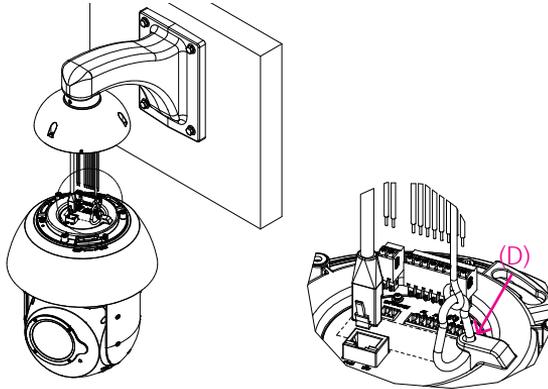
2. The safety wire has 2 hooks, one at each end. Hook one end of the safety wire (A) on the wall mount and pull the cable through the wall mount; fasten screws to secure the wall mount on the wall.



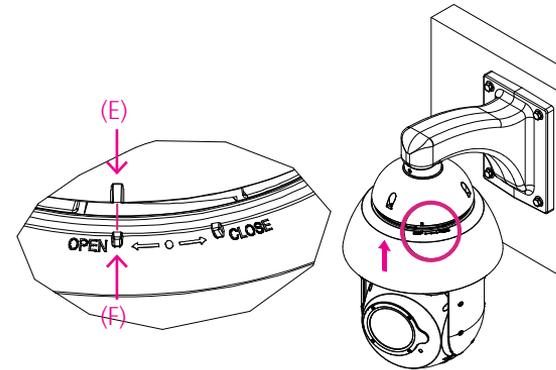
3. Pull the safety wire and cables through the Cap and rotate the Cap. Align one of Cap's screw holes (B) with the hole of mount (C). Fasten hexagonal screw (C) with proper tool.



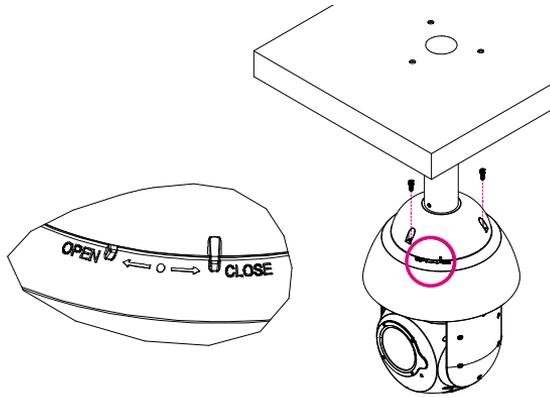
4. Hook the other end of the safety wire on (D). Connect the cable with terminal block and plug-in the corresponding holes and RJ-45 connector.



5. Attach camera and wall mount [align (E) with (F)].

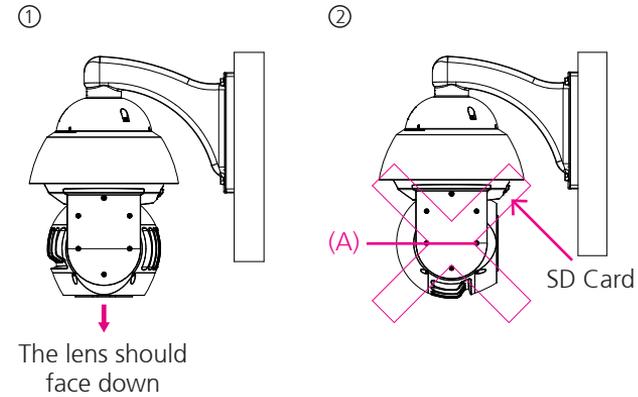


6. Rotate the camera in the CLOSE direction and then tighten screws (3x) to fix the camera on the Cap.



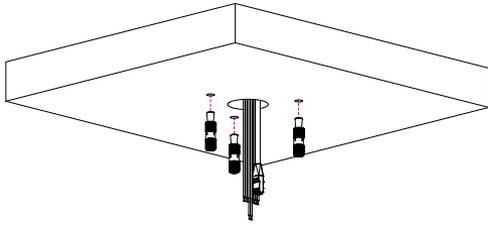
Warning Note:

- ① After installing, adjust the position of the camera so the lens faces down and start the homing process.
- ② This is the wrong installation for reference. **DO NOT** let the lens face angle over the A line.

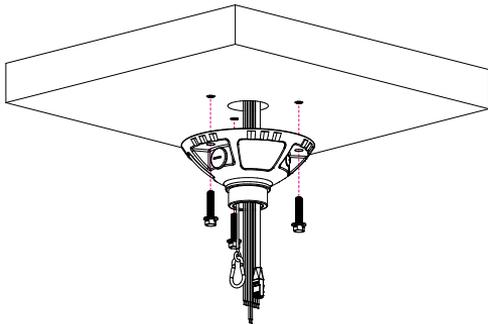


Pendant Mounting (V1001-PM)

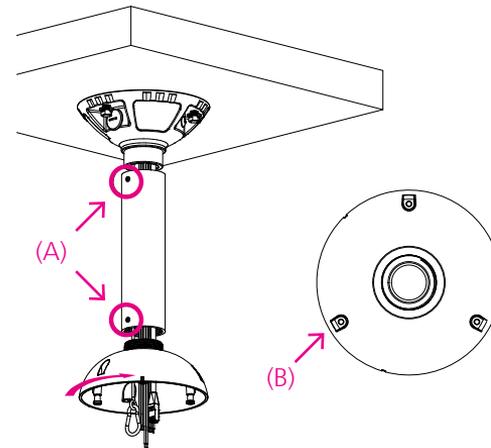
1. Use the mount as a template and mark the mounting holes. Fasten stainless steel anchors (x3).



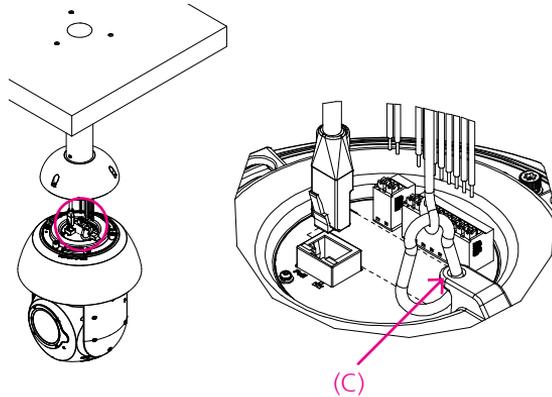
2. Pull the safety wire and cables through the bottom case of pendant mount and tighten the screws.



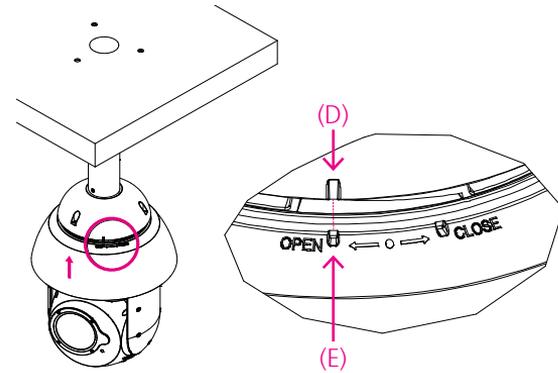
3. Fasten the tube and Cap, aligning B (one of the holes in Cap) with A (the hole in tube). Tighten the hexagonal screw (A) with proper tool.



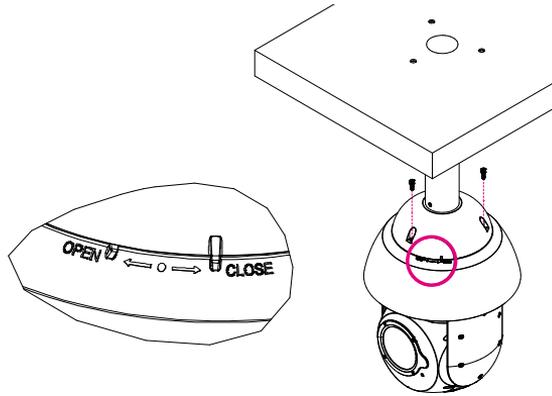
4. Hook one end of the safety wire (C) on the camera; hook the other end of the safety wire at a convenient location for the installation to secure the camera. Connect the cable with terminal block and plug-in the corresponded holes and RJ-45 connector.



5. Attach the camera and pendant mount [align (D) with (E)].

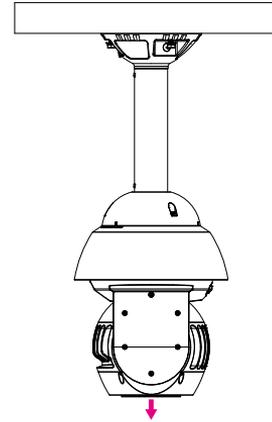


6. Rotate the camera in the CLOSE direction and then tighten screws (3x) to fix the camera on the Cap.

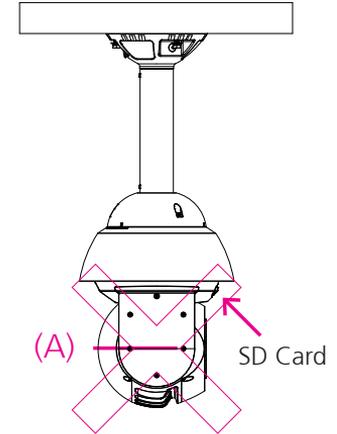


Warning Note:

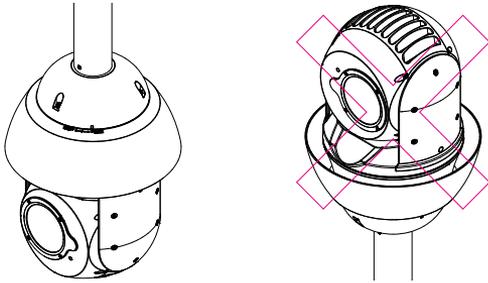
- ① After installing, adjust the position of the camera so the lens faces down and start the homing process.
- ② This is the wrong installation for reference. **DO NOT** let the lens face angle over the A line.



The lens should
face down



- ③ **DO NOT** install the product on unstable poles, brackets, surfaces or walls.



CHAPTER 2: CAMERA CONFIGURATION

Accessing the Camera's Configuration Menu (Graphical User Interface)

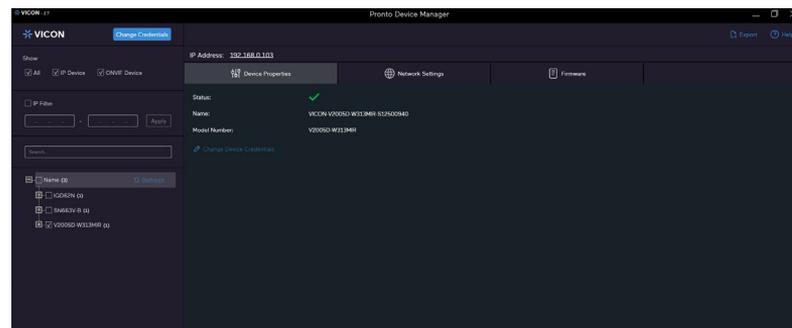
The camera can be accessed directly from its web page or using Vicon's PRONTO Device Manager, which can be found on Vicon's website.

Since this is a network-based camera, an IP address must be assigned. By default, the camera is set to obtain an IP address via DHCP; be sure to enable DHCP in "Network Settings." If DHCP is not available, the camera will use APIPA (link-local address); IPv4 link-local addresses are assigned from address block 169.254.0.0/16 (169.254.0.0 through 169.254.255.255).

PRONTO Device Manager

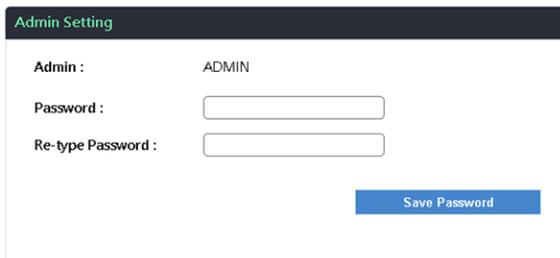
PRONTO is Vicon's device manager (Discovery tool) that can be used to discover all Vicon cameras on a system. The complete [User Manual](#) can be found on Vicon's website.

- Upon startup of the PRONTO Device Manager, the tool's auto-discovery function generates a list of the discovered cameras on the network in a resource list.
- There are a variety of filtering options, including filter by All Devices/IP Device/ONVIF Device; IP range or text.
- There are tabs for Device Properties, Network Settings and Firmware.



Web Browser

1. Locate and open one of the web browsers (such as Chrome, Firefox, Microsoft Edge, etc.) shortcut on the desktop.
2. In the address bar, type the IP address of the camera and then press the Enter button.
3. A pop-up window displays asking for login information; type in the user name (the default Admin user name is ADMIN) and password (customer selected) according to the parameters required. If this is the first time logging in, re-type password and click Save Password.



The screenshot shows a web browser window with a dark header bar containing the VICON logo and the text "4K PTZ Camera". Below the header, there is a "Live View" button and a "Setup" button. The main content area displays a live camera feed of a parking lot with a red SUV. The timestamp "2/23/2024 11:07:57 AM" is visible in the top left of the feed, and "Event Status" is in the top right. The "West" label is partially visible on the right side of the feed.

Admin Setting

Admin : ADMIN

Password :

Re-type Password :

[Save Password](#)

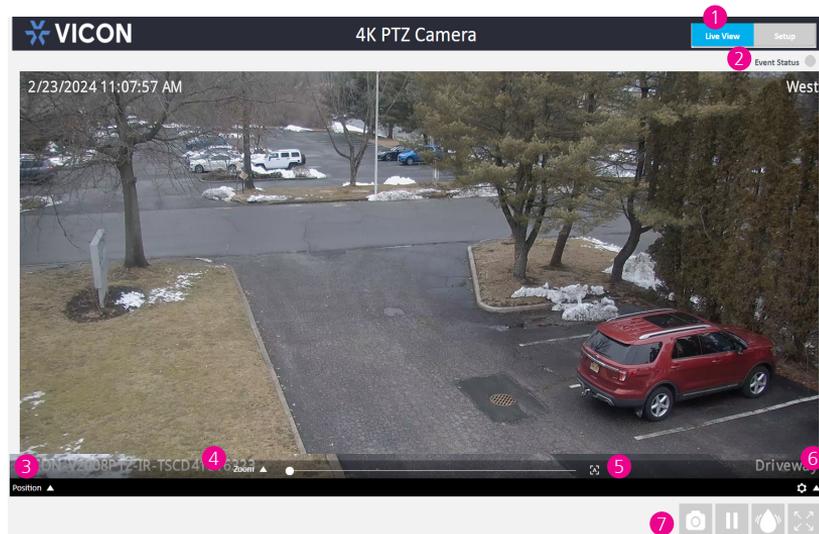
Passwords must be 8-32 characters and include the following: upper case, lower case, number and special character (!#@\$%&*)

4. Once logged in, the main screen displays.



Main Screen Overview

The main screen displays after successfully logging into the IP camera. The main screen allows users to view the live video in the camera and provides options and status icons for configuring and monitoring the camera.



1 Setup

Enter the setup menu for configuring the IP camera.

2 Event Status

When the event is triggered, the indicator will flash.

3 Position

Available options are Cruise, Preset, and Preset Tours. Configure these options in PTZ configuration.

4 Camera Adjustment

Click to enable the options menu.

- Zoom: Set the zoom position.
- Focus: Set focus position.
- Brightness: Click and hold to close the iris and darken the image.

5 Auto Focus

Click to focus automatically.

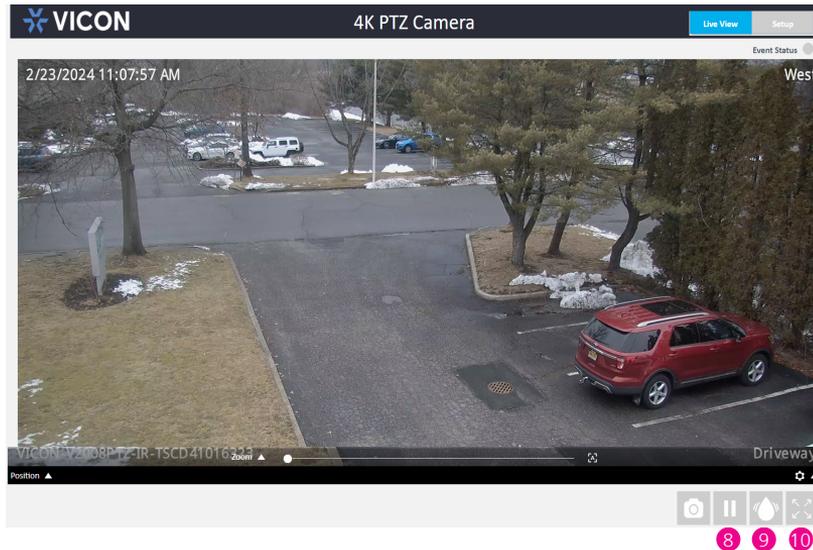
6 Option Menu

Click to enable the options menu.

- Video Format: Set the video format; the available options are H.264 and MJPEG.
- PTZ Control: Select this option to manually control the PTZ.

7 Snapshot

Capture the current image.



- 8 Pause**
Pause the image.
- 9 Speed Dry**
Activate the speed dry function.
- 10 Maximizing the Window**
Click to go full screen.

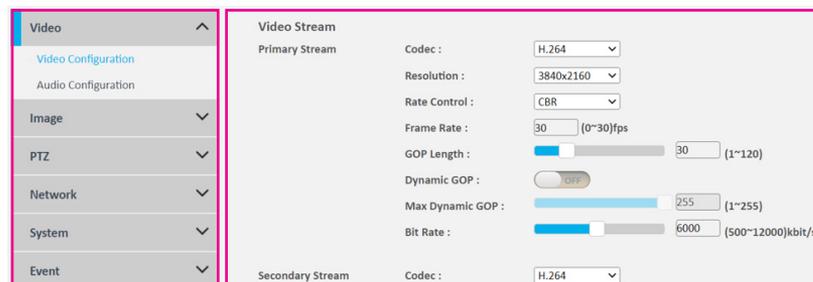
Configuring the Camera's Settings

To configure the camera's settings, click on **Setup** button on the main screen to enter the configuration menu.



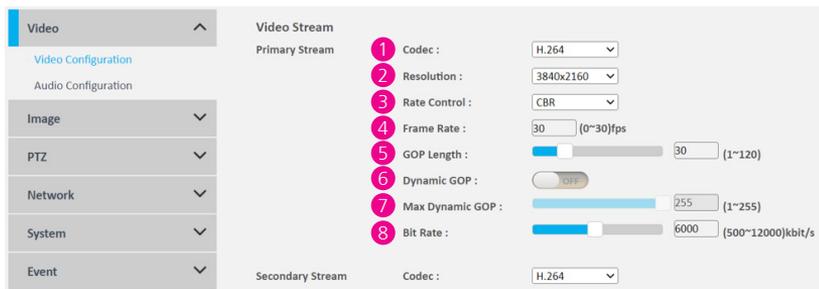
Browsing Through the Configuration Menu

The layout of the configuration menu is split into two sections. All the camera settings are located on the left hand side of the interface; click on each item to open the corresponding sub-menu on the right.



Video - Video Configuration

Primary Stream



The screenshot shows the 'Video Configuration' interface for the 'Primary Stream'. The settings are as follows:

- 1 Codec:** H.264
- 2 Resolution:** 3840x2160
- 3 Rate Control:** CBR
- 4 Frame Rate:** 30 (0~30)fps
- 5 GOP Length:** 30 (1~120)
- 6 Dynamic GOP:** Disabled (OFF)
- 7 Max Dynamic GOP:** 255 (1~255)
- 8 Bit Rate:** 6000 (500~12000)kbit/s

The 'Secondary Stream' section at the bottom shows the 'Codec' set to H.264.

1 Codec

Configure the format of the video stream; the available options are **H.265**, **H.264**, and **MJPEG**.

2 Resolution

Configure the resolution of the video stream; the available options are **3840x2160**, **2560x1440**, and **1920x1080**.

3 Rate Control

Configure the Rate Control mode as **CBR** (constant bit rate) or **CVBR** (constrained variable bit rate) for the stream.

4 Frame Rate

Adjust the frame rate of the video stream; the range is 0~30fps. The stream will be off if 0 is selected.

5 GOP Length

Configure the GOP length of the stream; the range is 1~120. Users can enter a value or adjust it using the slider bar.

6 Dynamic GOP

Enable or disable Dynamic GOP. Enabling it will increase the bit rate of moving objects and make them clearer. Bit rate of images around the moving objects will not be modified.

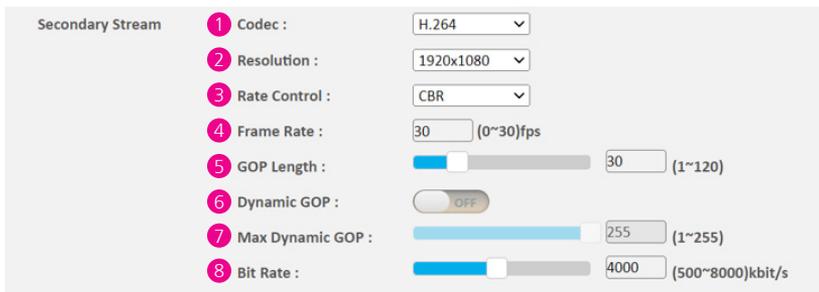
7 Max Dynamic GOP

Enter a numeric value from 1~255 to configure max dynamic GOP.

7 Bit Rate

Configure the bit rate; the range is 500~12000 kbits/s. Users can enter the value or adjust it using the slider bar.

Secondary Stream



Secondary Stream

- 1 Codec : H.264
- 2 Resolution : 1920x1080
- 3 Rate Control : CBR
- 4 Frame Rate : 30 (0~30)fps
- 5 GOP Length : 30 (1~120)
- 6 Dynamic GOP : OFF
- 7 Max Dynamic GOP : 255 (1~255)
- 8 Bit Rate : 4000 (500~8000)kbit/s

1 Codec

Configure the format of the video stream; the available options are **H.265** and **H.264**.

2 Resolution

Configure the resolution of the video stream; the available options are **1920x1080**, **1280x960**, and **1280x720**.

3 Rate Control

Configure the Rate Control mode as **CBR** (constant bit rate) or **CVBR** (constrained variable bit rate) for the stream.

4 Frame Rate

Adjust the frame rate of the video stream; the range is 0~30fps. The stream will be off if 0 is selected.

5 GOP Length

Configure the GOP length of the stream; the range is 1~120. Users can enter the value or adjust it using the slider bar.

6 Dynamic GOP

Enable or disable Dynamic GOP. Enabling it will increase the bit rate of moving objects and make them clearer. Bit rate of images around the moving objects will not be modified.

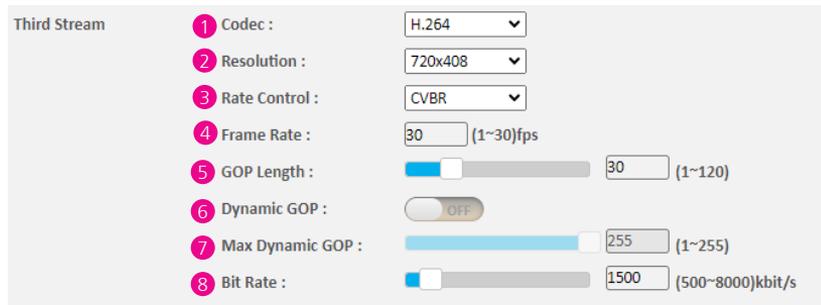
7 Max Dynamic GOP

Enter a numeric value from 1~255 to configure max dynamic GOP.

8 Bit Rate

Configure the bit rate; the range is 500-8000 kbits/s. Users can enter a value or adjust it using the slider bar.

Third Stream



Third Stream

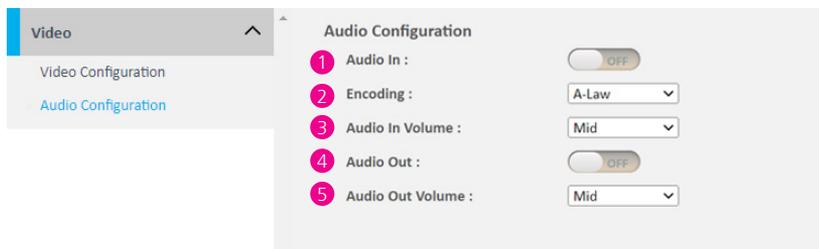
- 1 Codec : H.264
- 2 Resolution : 720x408
- 3 Rate Control : CVBR
- 4 Frame Rate : 30 (1~30)fps
- 5 GOP Length : 30 (1~120)
- 6 Dynamic GOP : OFF
- 7 Max Dynamic GOP : 255 (1~255)
- 8 Bit Rate : 1500 (500~8000)kbit/s

Save

After all the settings are complete, click the **Save** button to apply the configurations for the changes to take effect.

- 1 **Codec**
Configure the format of the video stream; the available options are **H.265**, **H.264** and **MJPEG**.
- 2 **Resolution**
Configure the resolution of the video stream; the available options are **720x408** and **640x360**.
- 3 **Rate Control**
Configure the Rate Control mode as **CBR** (constant bit rate) or **CVBR** (constrained variable bit rate) for the stream.
- 4 **Frame Rate**
Adjust the frame rate of the video stream; the range is 1~30fps. The stream will be off if 0 is selected.
- 5 **GOP Length**
Configure the GOP length of the stream; the range is 1~120. Users can enter the value or adjust it using the slider bar.
- 6 **Dynamic GOP**
Enable or disable Dynamic GOP. Enabling it will increase the bit rate of moving objects and make them clearer. Bit rate of images around the moving objects will not be modified.
- 7 **Max Dynamic GOP**
Enter a numeric value from 1~255 to configure max dynamic GOP.
- 8 **Bit Rate**
Configure the bit rate; the range is 500-8000 kbits/s. Users can enter a value or adjust it using the slider bar.

Video - Audio Configuration

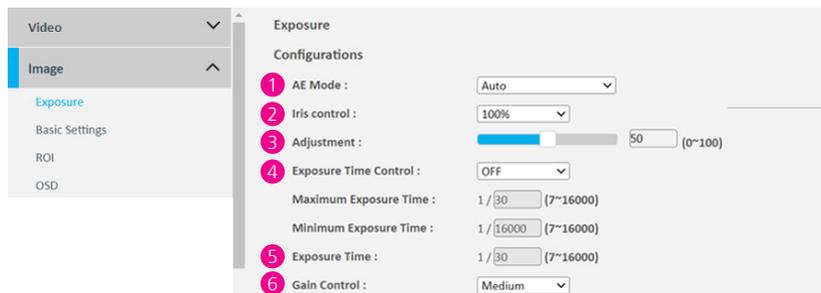


- 1 Audio In**
Enable or disable audio in on the camera. The available options are **ON** and **OFF**.
- 2 Encoding**
The available options are **A-Law** and **U-Law**.
- 3 Audio In Volume**
Volume adjustment for audio in of the camera; the available options are **High**, **Mid**, and **Low**.
- 4 Audio Out**
Enable or disable audio out on the camera. The available options are **ON** and **OFF**.
- 5 Audio Out Volume**
Volume adjustment for audio out of the camera; the available options are **High**, **Mid**, and **Low**.

Save

After all the settings are complete, click the **Save** button to apply the configurations for the changes to take effect.

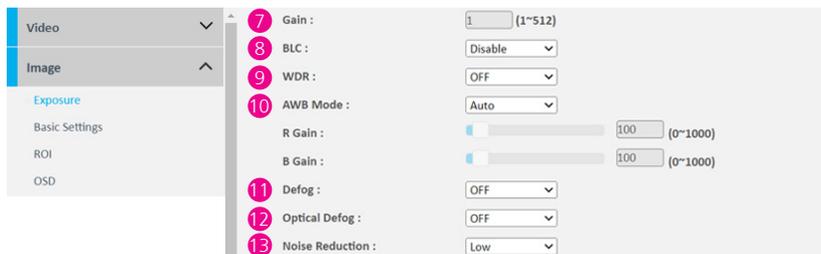
Image - Exposure



Configurations

- 1 AE Mode**
The available options are **Auto**, **Shutter Priority**, **50Hz**, **60Hz**, and **Lock**.
- 2 Iris Control**
Iris control regulates the amount of light entering. The available options are **Auto** or **0%~100%**.
- 3 Adjustment**
Adjust the weighting from 0~100. Users can enter a value or adjust it using the slider bar.
- 4 Exposure Time Control**
Select **User Define** to enter the values of **Maximum Exposure Time** (the range is 1/7~1/16000) and **Minimum Exposure Time** (the range is 1/7~1/16000) manually.
- 5 Exposure Time**
The range is 1/7~1/16000. It is available for editing when **Lock** is selected in the AE Mode.
- 6 Gain Control**
The available options are **OFF**, **High**, **Medium**, and **Low**.

Image - Exposure



7 Gain

The numeric values that can be entered are from 1~512. It can only be edited when **Lock** is selected in the AE Mode.

8 BLC

Enable or disable backlight compensation function; enable this option if the entire camera image is too dark. If just a specific area of the video is too dark, select the quadrant for BLC.

9 WDR

Enable this function if the camera is exposed to bright backlight, glare or high contrast lighting. The available options are **OFF**, **Low**, **Medium**, and **High**.

10 AWB Mode (Auto White Balance Mode)

The default setting is **Auto**. **OFF** means the white balance won't be automatically adjusted. The white balance can also be adjusted manually through **R Gain** or **B Gain**. The range is 0~1000.

11 Defog

Improve visibility by reducing the impact of fog, haze, or other atmospheric interference in the image. The available options are **OFF**, **High**, **Medium**, and **Low**.

12 Optical Defog

Enhance visibility by mitigating the effects of fog, haze, or interference using specialized optical techniques. The available options are **OFF** and **ON**.

13 Noise Reduction

Enable this function to reduce noise. The available options are **OFF**, **High**, **Medium**, and **Low**.

Image - Exposure

Day Night Setting

14 DayNight Control :	light_sensor
DayNight Mode :	Auto
16 Wide IR Control :	Auto
Wide IR Mode :	Adaptive
18 Tele IR Control :	Auto
Tele IR Mode :	Adaptive
20 IR Cut Control :	Sync DayNight
21 Current Day Night Level :	1311
Day to Night Switching Level :	2
Night to Day Switching Level :	8

Day Night Setting

14 Day Night Control

The available options are **User Defined (Schedule)**, **Light Sensor**, **Color Mode**, and **Gray Mode**.

15 Day Night Mode

The available options are **Auto**, **BW**, and **Color**.

16 Wide IR Control

The available options are **Auto**, **Manual**, and **OFF**.

17 Wide IR Mode

The available options are **Adaptive** and **Manual**.

18 Tele IR Control

The available options are **Auto**, **Manual**, and **OFF**.

19 Tele IR Mode

The available options are **Adaptive** and **Manual**.

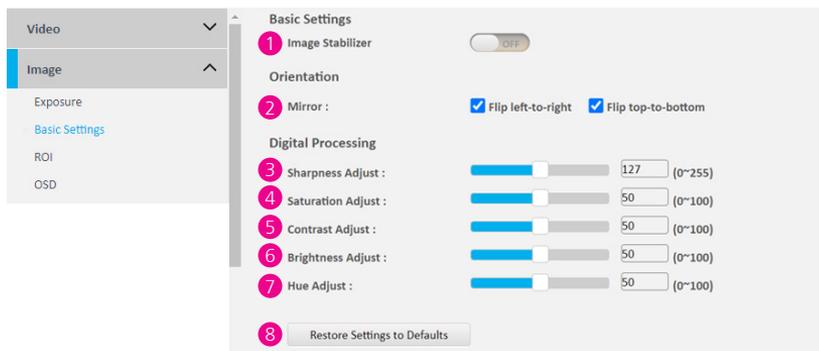
20 IR Cut Control

The available options are **Auto**, **Sync Day Night**, **Force Day**, and **Force Night**.

21 Current Day Night Level

Select the **Day to Night** and **Night to Day Switching Level** from the dropdown list, 1 - 20.

Image - Basic Settings



Basic Settings

1 Image Stabilizer

Click **ON** or **OFF** to enable/disable image stabilization.

Orientation

2 Mirror

Flip the image horizontally (**Flip left-to-right**) or vertically (**Flip top-to-bottom**).

Digital Processing

3 Sharpness Adjust

Configure the sharpness of the image; the range is 0~255, with 0 being the lowest sharpness. Enter a value or adjust the slider bar to increase or decrease the value. The default value is 127.

4 Saturation Adjust

Configure the color saturation of the image; the range is 0~100, with 0 being the lowest saturation. Enter a value or adjust the slider bar to increase or decrease the value. The default value is 50.

5 Contrast Adjust

Configure the contrast of the image; the range is 0~100, with 0 being the lowest contrast. Enter a value or adjust the slider bar to increase or decrease the value. The default value is 50.

6 Brightness Adjust

Configure the brightness of the image; the range is 0~100, with 0 being the lowest brightness. Enter a value or adjust the slider bar to increase or decrease the value. The default value is 50.

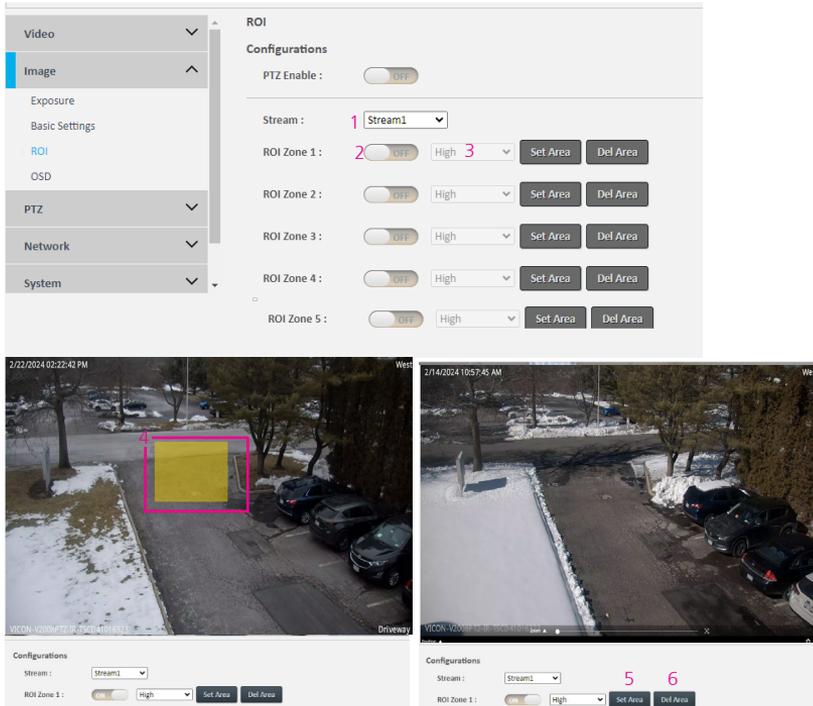
7 Hue Adjust

Configure the overall hue of the image; the range is 0~100. Enter a value or adjust the slider bar to increase or decrease the value. Increasing the value will adjust the image hue towards red; decreasing the value will adjust the image hue towards blue. The default value is 50.

8 Restore Settings to Defaults

Discard all the settings applied to the image and reset to the default settings.

Image - ROI



The screenshot displays the VICON camera configuration interface. On the left, a sidebar menu shows 'Image' selected. The main panel is titled 'ROI' and contains the following settings:

- Configurations**
 - PTZ Enable: OFF
 - Stream: 1 Stream1
 - ROI Zone 1: ON High 3 [Set Area] [Del Area]
 - ROI Zone 2: OFF High [Set Area] [Del Area]
 - ROI Zone 3: OFF High [Set Area] [Del Area]
 - ROI Zone 4: OFF High [Set Area] [Del Area]
 - ROI Zone 5: OFF High [Set Area] [Del Area]

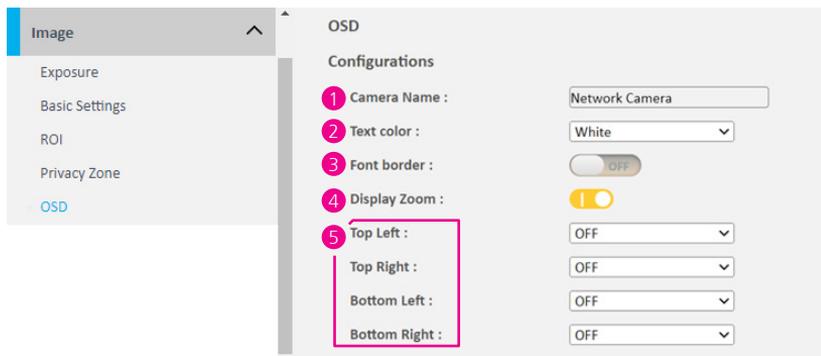
Below the settings are two video stream windows. The left window shows a live feed of a snowy parking lot with a yellow ROI box overlaid on a car. The right window shows the same feed with a red ROI box overlaid on a different car. Both windows have their own configuration panels at the bottom, with the right window's ROI Zone 1 set to 'ON High' and '5 6' displayed next to it.

Configurations

ROI is used to select which areas will be monitored and recorded with higher image quality, while using lower image quality for other non-ROI zones to save bandwidth and storage. Enable the PTZ so the camera can be positioned to the region for setup. The instructions below illustrate how to setup ROI.

1. Select Stream 1 or Stream 2 to set the ROI on. Each channel can be edited individually.
2. There are 5 ROI zones that can be configured (Zone 1~Zone 5) that can be configured for each stream. Switch to **ON** to enable the ROI function. The default is **OFF**.
3. Set the image quality of the ROI in the level drop-down menu; the options are **Low**, **Mid**, or **High**.
4. Select the area to set the ROI by holding down the mouse left button and drag to make a rectangle; release the button once the desired area is covered.
5. Click the **Set Area** button for the setting to take effect. The ROI area will then be seen on the video stream.
6. Click the **Del Area** button or select **OFF** (step 1) to delete the ROI area.

Image - OSD



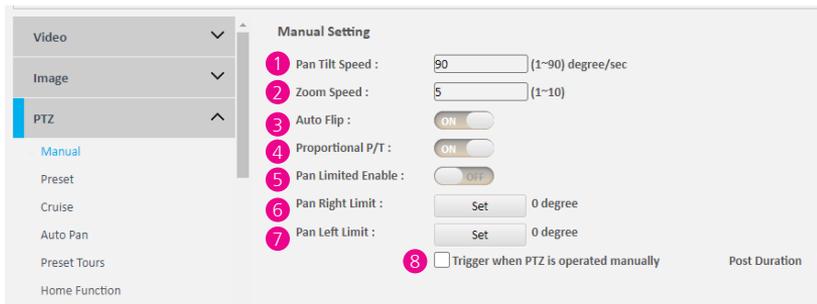
Configurations

- 1 **Camera Name**
Specify a name for the device. The maximum length is 32 characters.
- 2 **Text Color**
Configure the text color as **Black, White, Green, Yellow, or Red.**
- 3 **Font Border**
Enable or disable the font border.
- 4 **Display Zoom**
To display or not to display the zoom times on the screen.
- 5 **Top Left / Top Right / Bottom Left / Bottom Right**
There are 4 content positions (Top Left, Top Right, Bottom Left and Bottom Right) to display the date/time, camera name, custom text, camera name + date/time, preset, or direction.

Save

After all the settings are complete, click the **Save** button to apply the configurations for the changes to take effect.

PTZ - Manual



8 Trigger

Check to trigger when PTZ is operated manually. Use the slide bar to adjust the post duration time in seconds (1-300).

Save

After all the settings are complete, click the **Save** button to apply the configurations for the changes to take effect.

Manual Setting

Pan and tilt the camera manually by clicking or dragging In this function.

1 Pan Tilt Speed

The numeric values that can be entered are from 1~90 to set pan and tilt speed degrees per second.

2 Zoom Speed

The numeric values that can be entered are from 1~10 to set zoom speed.

3 Auto Flip

Allows the camera to rotate 180 degrees when the tilt is pointing straight down. Turn **ON** or **OFF**.

4 Proportional P/T

Automatically adjusts the pan and tilt speeds in proportion to the camera's zoom level. Turn **ON** or **OFF**.

5 Pan Limited Enable

Turn on **Pan Limited Enable** to configure panning limits. When a limit is reached, the restricted area will bounce back in the opposite direction to initiate pan movement again.

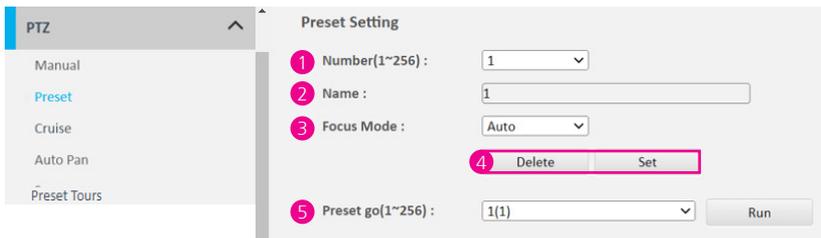
6 Pan Right Limit

Click the **Set** button to configure pan right limit.

7 Pan Left Limit

Click the **Set** button to configure pan left limit.

PTZ - Preset



PTZ Preset Setting

1 Number(1~256) : 1

2 Name : 1

3 Focus Mode : Auto

4 Delete Set

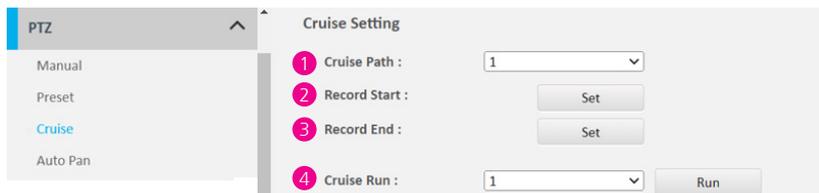
5 Preset go(1~256) : 1(1) Run

Preset Setting

A preset is a camera position that can be configured and called as a single command, allowing users to quickly move the camera to common positions.

- 1 **Number (1~256)**
Configure the preset points; up to 256 preset points can be configured.
- 2 **Name**
Name the preset point.
- 3 **Focus Mode**
Configure the focus mode to **Auto** or **Lock**.
- 4 **Delete / Set**
Click the **Set** button when all the options are confirmed. Select preset number (1~256) and click **Delete** to remove the preset.
- 5 **Preset go (1~256)**
The preset will show in the drop-down menu; select preset and click **Run** to operate.

PTZ - Cruise



Cruise Setting

Click **Record Start** and **Record End** to record the history of manual operations (pan, tilt, and zoom) as a cruise path.

- 1 Cruise Path**
There are 8 cruise paths that can be configured.
- 2 Record Start**
Click the **Set** button to start record.
- 3 Record End**
Click the **Set** button to end record.
- 4 Cruise Run**
Select the cruise and click the **Run** to operate.

PTZ - Auto Pan

Auto Pan Setting

1 Auto Pan Path : ▼

2 Speed : (1~90) degree/sec

3 Tilt Angle : (1~90) degree

4 Zoom Position : (0~4270)

5 Direction : ▼

6 Pan Limit Enable : Off

Start Point : 0 degree

End Point : 0 degree

7 Auto Pan Path : ▼

Save

After all the settings are complete, click the **Save** button to apply the configurations for the changes to take effect

Auto Pan Setting

Allows the camera to automatically pan horizontally in a continuous back-and-forth motion.

1 Auto Pan Path

There are 1 to 4 auto pan paths that can be configured.

2 Speed

The numeric values that can be entered are from 1~90 to set pan speed in degrees per second.

3 Tilt Angle

The numeric values that can be entered are from 1~90 to set tilt angle.

4 Zoom Position

Click the **Get Zoom Position** button to determine the current zoom position.

5 Direction

Select **Left** or **Right** to configure pan direction.

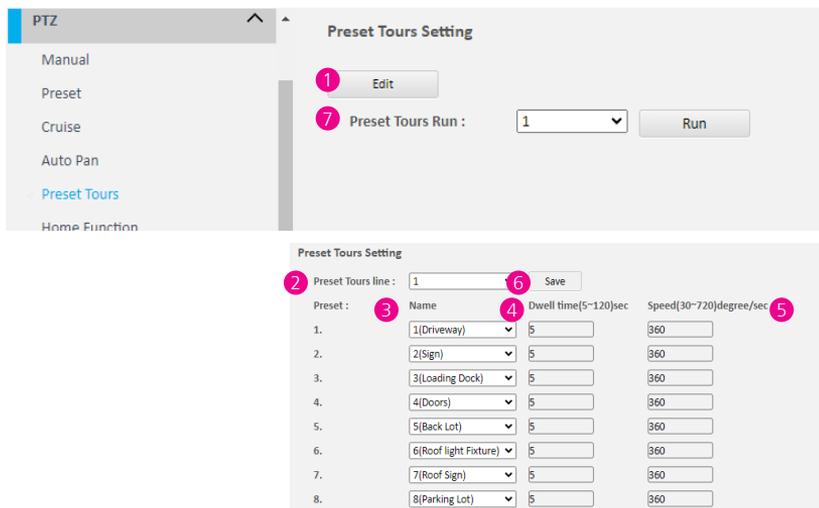
6 Pan Limit Enable

Turn on Pan Limited Enable to configure panning limits. Position the camera for the **Start Point** and click **Set**; position for **End Point** and click **Set**. When a limit is reached, the camera will bounce back in the opposite direction, towards the other limit, to initiate the pan movement again.

7 Auto Pan Path

Select the auto pan path from 1~4, then click **Run** to operate.

PTZ – Preset Tours



Preset Tours Setting

1 Edit

7 Preset Tours Run : 1 Run

Preset Tours Setting

2 Preset Tours line : 1 6 Save

Preset	3 Name	4 Dwell time(5~120)sec	5 Speed(30~720)degree/sec
1.	1(Driveway)	5	360
2.	2(Sign)	5	360
3.	3>Loading Dock)	5	360
4.	4(Doors)	5	360
5.	5(Back Lot)	5	360
6.	6(Roof light Fixture)	5	360
7.	7(Roof Sign)	5	360
8.	8(Parking Lot)	5	360

Preset Tour Setting

The camera will automatically transition between presets according to the programmed tour. Define the preset points, pan/tilt speed, and dwell time. Click on **Edit** (1) button to configure each Preset Tour run.

2 Preset Tours Line

Select the Preset Tours line from 1~8 to configure the name, dwell time, and speed.

3 Name

Select the preset in the drop-down menu.

4 Dwell time (5~120)sec

Set the dwell time for the preset. The dwell time refers to the duration (5~120 seconds) the camera will stay at a preset position before moving to the next preset in the tour.

5 Speed (30~720)degree/sec

Set the pan / tilt speed from the range of 30~720 degree per second.

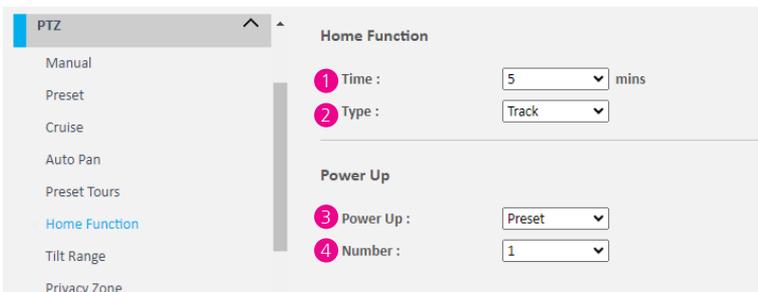
6 Save

After all the settings are complete, click the **Save** button to apply the configurations for the changes to take effect.

7 Preset Tours Run

Select a Preset Tours from 1~8; then click the **Run** button to operate.

PTZ - Home Function



The screenshot shows the PTZ configuration interface. On the left is a sidebar with the following menu items: Manual, Preset, Cruise, Auto Pan, Preset Tours, Home Function (highlighted in blue), Tilt Range, and Privacy Zone. The main content area is titled 'Home Function' and contains the following settings:

- 1 Time :** A dropdown menu set to '5' with 'mins' to its right.
- 2 Type :** A dropdown menu set to 'Track'.
- 3 Power Up :** A dropdown menu set to 'Preset'.
- 4 Number :** A dropdown menu set to '1'.

Home Function Setting

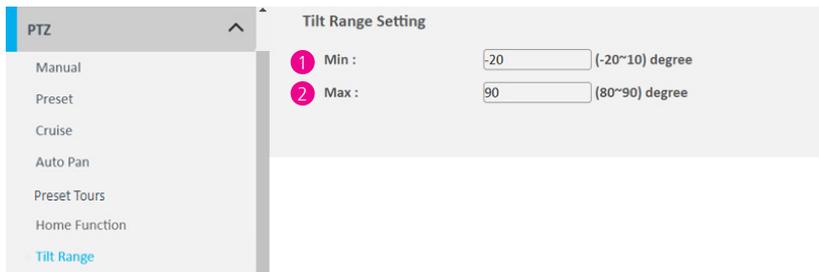
Configure the following action that will be executed when the camera is not actively performing any operations in a specific time period.

- 1 Time**
Available options are **OFF, 1, 2, 3, 5, 10, 20, 30, 60, and 120** minutes.
- 2 Type**
Available options are **Auto Pan, Preset Tours, Cruise, Preset, and Track**.
- 3 Power Up**
Select camera function upon power up. Available options are **Off, Auto Pan, Preset Tours, Cruise, Preset, and Track**.
- 4 Number**
Available options are 1~256.

Save

After all the settings are complete, click the **Save** button to apply the configurations for the changes to take effect.

PTZ - Tilt Range



PTZ

- Manual
- Preset
- Cruise
- Auto Pan
- Preset Tours
- Home Function
- Tilt Range

Tilt Range Setting

1 Min : (-20~10) degree

2 Max : (80~90) degree

Tilt Range Setting

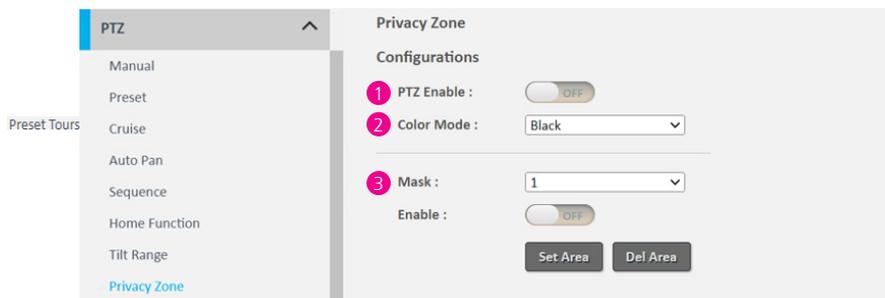
Configure the minimum and maximum of tilt range.

- 1 Min**
Enter a minimum tilt angle from -20~10 degree. The default is -20 degree.
- 2 Max**
Enter a maximum tilt angle from 80~90 degree. The default is 90 degree.

Save

After all the settings are complete, click the **Save** button to apply the configurations for the changes to take effect.

PTZ - Privacy Zone



Privacy Zone Configurations

Click and drag to configure which area of the video stream will be masked for privacy. Up to 32 privacy zones can be configured.

1 PTZ Enable

Enable or disable the manual operation of pan and tilt.

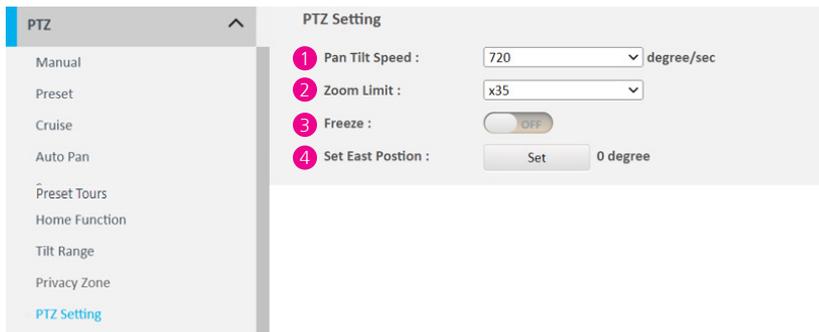
2 Color Mode

A privacy area can be displayed on the screen in **Black, White, Blue, Yellow, Green, or Red.**

3 Mask

Select a Mask number, set Enable to ON, and click and drag to define the area to be masked. Click **Set Area** button when all options are configured. To remove the mask, choose the mask number and click **Del Area** button.

PTZ - PTZ Setting



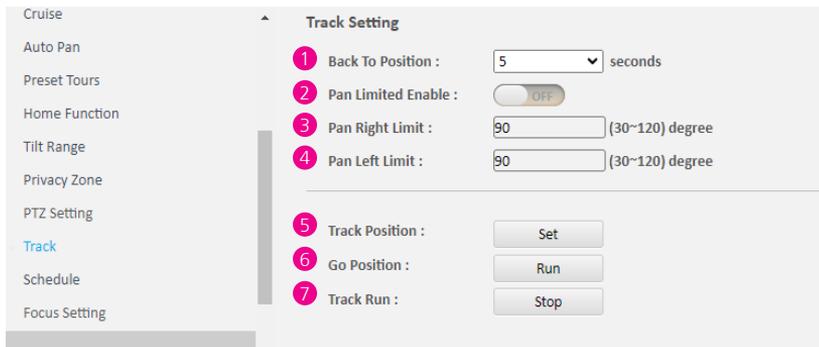
PTZ Setting

- 1 Pan Tilt Speed**
To configure the pan and tilt speed, the options can be chosen from **45, 90, 135, 180, 360, 450, and 720** degree/sec in the drop-down menu.
- 2 Zoom Limit**
Available options are **x35, x70, x140, and x280**. Optical zoom is up to 35x.
- 3 Freeze**
Turning freeze **ON** keeps image at rest when camera is running from one preset to another.
- 4 Set East Position**
Click the **Set** button to position East.

Save

After all the settings are complete, click the **Save** button to apply the configurations for the changes to take effect.

PTZ - Track



Cruise

Auto Pan

Preset Tours

Home Function

Tilt Range

Privacy Zone

PTZ Setting

Track

Schedule

Focus Setting

Track Setting

1 Back To Position : 5 seconds

2 Pan Limited Enable : OFF

3 Pan Right Limit : 90 (30~120) degree

4 Pan Left Limit : 90 (30~120) degree

5 Track Position : Set

6 Go Position : Run

7 Track Run : Stop

Track Setting

- 1 **Back To Position**
Configure a specific time to return to the track position. Available options are **OFF, 5, 10, 20, 30, 60, and 120** seconds.
- 2 **Pan Limited Enable**
Turn on the **Pan Limited Enable** to configure panning limits. If a limit is reached, the camera will bounce back in the opposite direction, toward the other limit, to initiate the pan movement again.
- 3 **Pan Right Limit**
Enter a value (30~120) to configure pan right limit.
- 4 **Pan Left Limit**
Enter a value (30~120) to configure pan left limit.
- 5 **Track Position**
Click the **Set** button to configure current position as the track position.
- 6 **Go Position**
Click the **Run** button to track position.
- 7 **Track Run**
Click **Stop** to end tracking. Click **Run** button to start tracking.

Save

After all the settings are complete, click the **Save** button to apply the configurations for the changes to take effect.

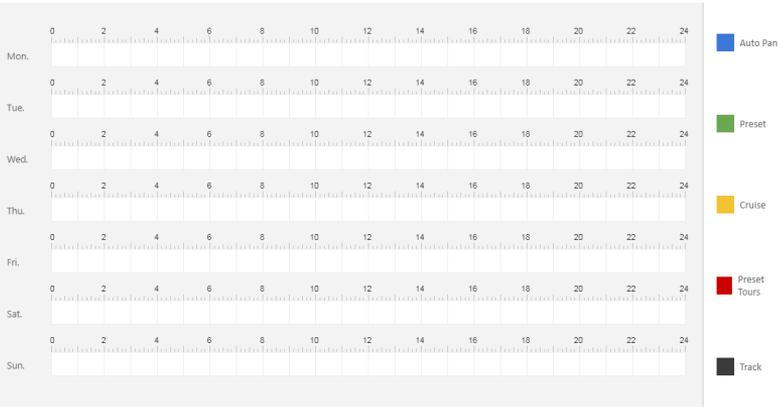
PTZ - Schedule

Schedule

Configurations

1 **Enable :** OFF 2 Schedule

5 **Recover Time :** mins



The grid shows a 24-hour timeline for each day of the week (Mon. to Sun.). A legend on the right identifies the PTZ modes: Auto Pan (blue), Preset (green), Cruise (yellow), Preset Tours (red), and Track (black). The grid is currently empty, indicating no schedule is set.

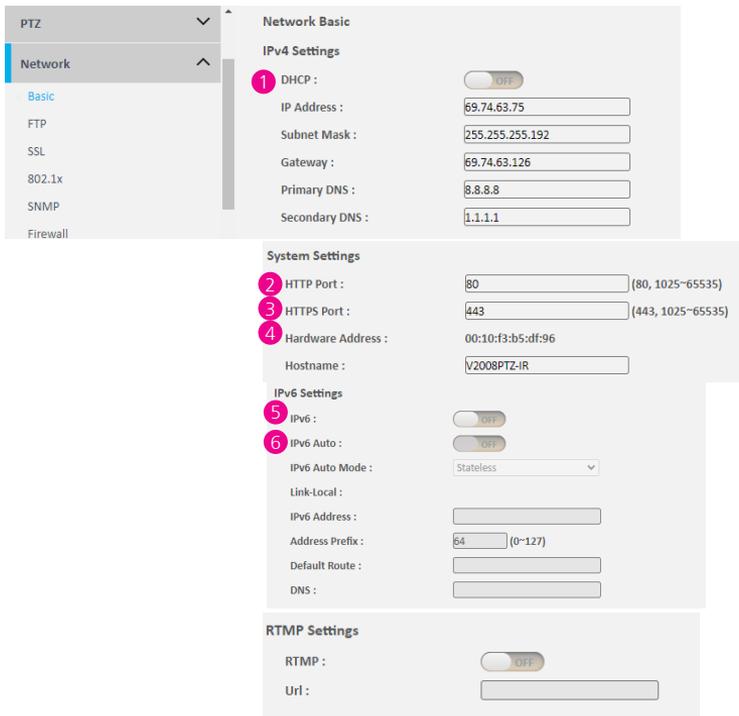
3 Save Cancel 4

Configurations

Click and drag the **Auto Pan**, **Preset**, **Cruise**, **Preset Tours**, and **Track** into the row of Monday to Sunday to arrange the camera schedule.

- 1 **Enable**
Based on the daily demand throughout the week, enable (1) to schedule (2) **Auto Pan**, **Preset**, **Cruise**, **Preset Tours**, and **Track** executions at specific times.
- 3 **Save**
After all the settings are complete, click the **Save** button to apply the configurations for the changes to take effect.
- 4 **Cancel**
Click the **Cancel** button to cancel the current configurations.
- 5 **Recover Time**
Available options are **OFF**, **1**, **2**, **3**, **5**, **10**, **20**, **30**, **60**, and **120** mins. If the camera is executing a schedule and there is an interruption, it will resume the schedule according to the configured idle time once the interruption is completed.

Network - Basic



Network Basic

IPv4 Settings

1 DHCP : OFF

IP Address :

Subnet Mask :

Gateway :

Primary DNS :

Secondary DNS :

System Settings

2 HTTP Port : (80, 1025~65535)

3 HTTPS Port : (443, 1025~65535)

4 Hardware Address :

Hostname :

IPv6 Settings

5 IPv6 : OFF

6 IPv6 Auto : OFF

IPv6 Auto Mode :

Link-Local :

IPv6 Address :

Address Prefix : (0~127)

Default Route :

DNS :

RTMP Settings

RTMP : OFF

Uri :

IPv4 Settings

1 DHCP

Enable or disable DHCP; use this feature if the camera is connected to a network with DHCP server.

To manually configure an IP address, disable DHCP and input the IP Address, Subnet Mask, default Gateway, and Primary and Secondary DNS server address.

System Settings

2 HTTP Port

Configure the HTTP port number of the web configuration menu.

3 HTTPS Port

Configure the HTTPS port number of the web configuration menu.

4 Hardware Address

Unique MAC address for each camera device. Enter a camera name in the Hostname field.

IPv6 Settings

5 IPv6

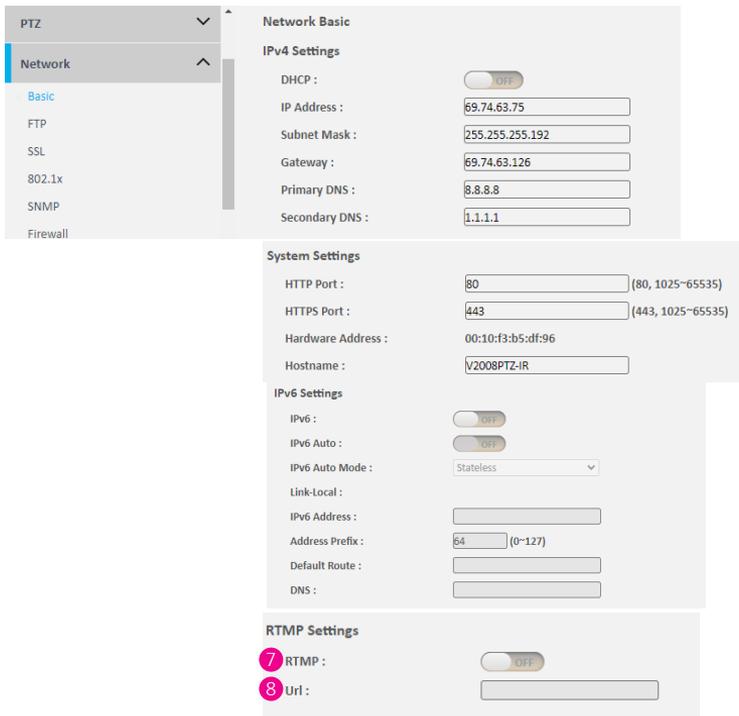
Enable or disable IPv6 function.

To manually input an IP address, enable IPv6. If available, enter the **Link-Local** address. Enter Address Prefix, Default Route, and DNS server address.

6 IPv6 Auto

There are 3 modes that can be selected: **Stateless**, **Stateless DHCP**, and **Stateful DHCP**. Enable IPv6 Auto; then the address prefix won't be able to be inputted.

Network - Basic



Network Basic

IPv4 Settings

DHCP : OFF

IP Address :

Subnet Mask :

Gateway :

Primary DNS :

Secondary DNS :

System Settings

HTTP Port : (80, 1025-65535)

HTTPS Port : (443, 1025-65535)

Hardware Address : 00:10:f3:b5:df:96

Hostname :

IPv6 Settings

IPv6 : OFF

IPv6 Auto : OFF

IPv6 Auto Mode : Stateless

Link-Local :

IPv6 Address :

Address Prefix : (0-127)

Default Route :

DNS :

RTMP Settings

7 RTMP : OFF

8 Uri :

RTMP Settings

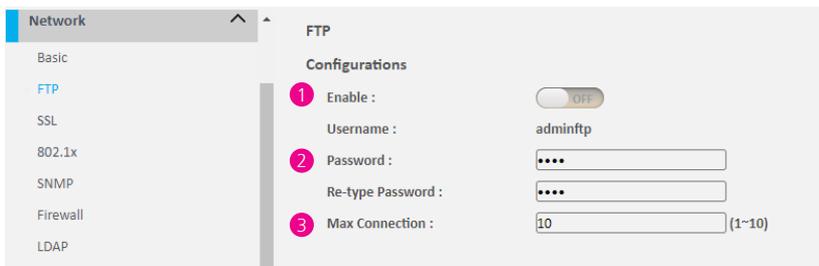
Turn on RTMP and paste the Url to stream video and audio in real-time over the internet.

- 7 **RTMP**
Enable or disable RTMP function.
- 8 **URL**
Configure the web URL address.

Save

After all the settings are complete, click the **Save** button to apply the configurations for the changes to take effect.

Network - FTP



Network

- Basic
- FTP**
- SSL
- 802.1x
- SNMP
- Firewall
- LDAP

FTP Configurations

- 1 Enable :** OFF
- 2 Password :** Username : adminftp
Password :
- 3 Max Connection :** (1~10)

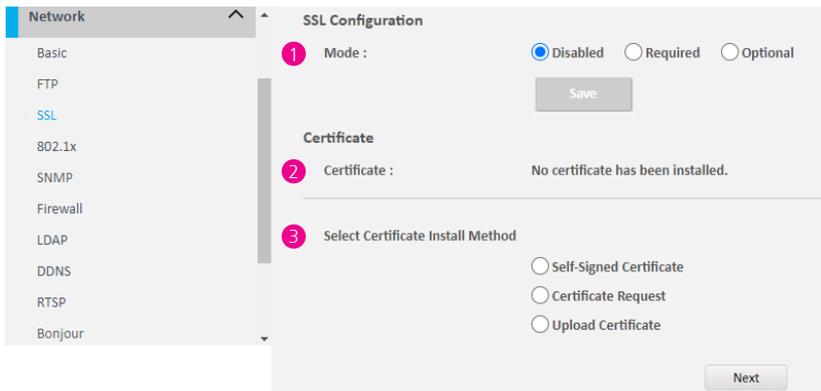
Configurations

- 1 Enable**
Enable or disable FTP access to this camera. This function is only available when an SD card is inserted. User can access files in the SD card attached to the IP camera.
- 2 Password**
Specify the FTP login password to access the IP camera.
- 3 Max Connection**
Specify the maximum number of FTP connections the IP camera can support; the range is from 1~10.

Save

After all the settings are complete, click the **Save** button to apply the configurations for the changes to take effect.

Network - SSL



Network

- Basic
- FTP
- SSL
- 802.1x
- SNMP
- Firewall
- LDAP
- DDNS
- RTSP
- Bonjour

SSL Configuration

1 Mode : Disabled Required Optional

Save

Certificate

2 Certificate : No certificate has been installed.

3 Select Certificate Install Method

Self-Signed Certificate

Certificate Request

Upload Certificate

Next

SSL Configurations

1 Mode

Disabled: Support for http only.

Optional: Support for http & https.

Required: Support for https only.

Certificate

2 Certificate

Display the certificate that was installed (see 3).

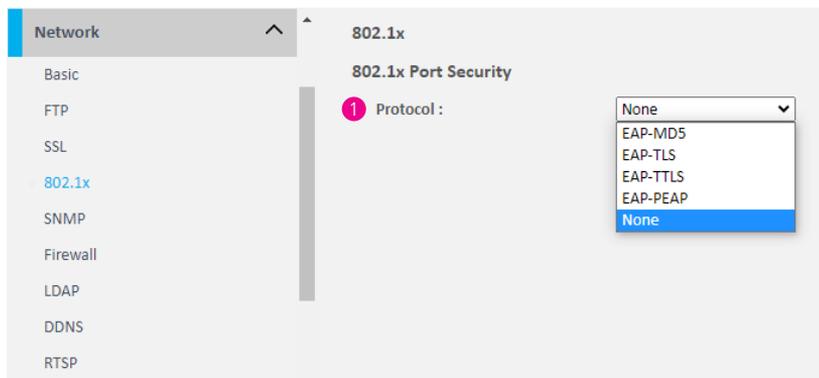
3 Select Certificate Install Method

Select the certificate installation method. The available options are **Self-Signed Certificate**, **Certificate Request**, and **Upload Certificate**. Press Next after selecting the installation method.

Save

After all the settings are complete, click the **Save** button to apply the configurations for the changes to take effect.

Network - 802.1x



802.1x Configurations

1 Protocol

The default is **None** to disable 802.1x function.

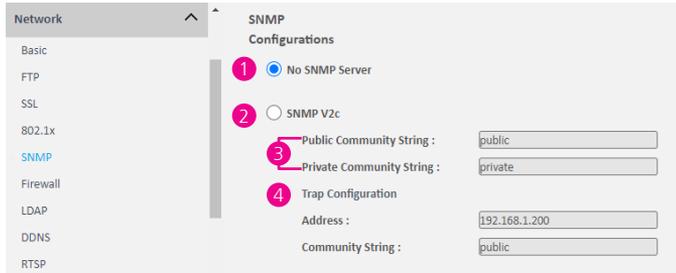
Select a protocol to activate the 802.1x function. The available protocols are **EAP-MD5**, **EAP-TLS**, **EAP-TTLS**, or **EAP-PEAP**.

After the protocol has been selected, manually configure the username, password, and other required information.

Save

After all the settings are complete, click the **Save** button to apply the configurations for the changes to take effect.

Network - SNMP

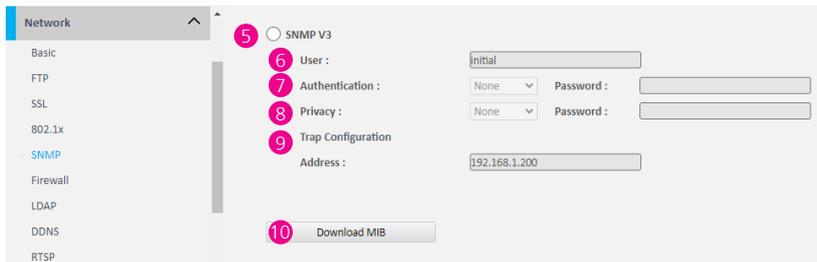


Network

- Basic
- FTP
- SSL
- 802.1x
- SNMP
- Firewall
- LDAP
- DDNS
- RTSP

SNMP Configurations

- No SNMP Server
- SNMP V2c
- Public Community String : public
- Private Community String : private
- Trap Configuration
 - Address : 192.168.1.200
 - Community String : public



Network

- Basic
- FTP
- SSL
- 802.1x
- SNMP
- Firewall
- LDAP
- DDNS
- RTSP

SNMP Configurations

- SNMP V3
- User : initial
- Authentication : None Password :
- Privacy : None Password :
- Trap Configuration
 - Address : 192.168.1.200
- Download MIB

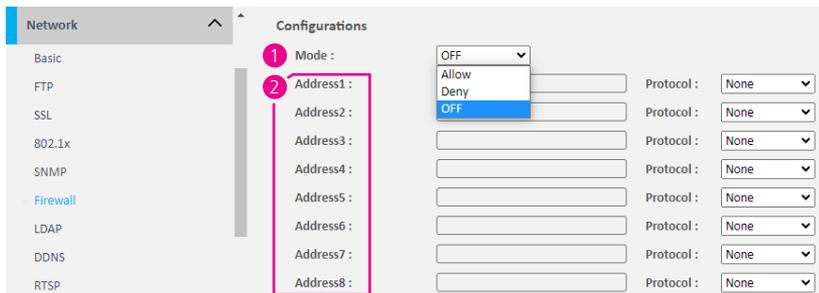
Save

After all the settings are complete, click the **Save** button to apply the configurations for the changes to take effect.

SNMP Configurations

- No SNMP Server**
Click the radio button to disable SNMP function.
- SNMP V2c**
Click the radio button to enable or disable SNMPv2c support.
- Public / Private Community String**
Configure the community string.
- Trap Configuration**
Specify the destination IP address to send the SNMP trap messages.
- SNMP V3**
Click the radio button to enable or disable SNMPv3 support.
- User**
Configure the SNMPv3 username.
- Authentication**
Configure the Authentication mode. The options are **None**, **MD5**, and **SHA**.
- Privacy**
Configure encryption for SNMPv3. The options are **DES** and **AES**.
- Trap Configuration**
Specify the destination IP address to send the SNMP trap messages.
- Download MIB**
Download MIB file for SNMP.

Network - Firewall



The screenshot shows the 'Network - Firewall' configuration page. On the left, a sidebar lists various network services, with 'Firewall' highlighted. The main area is titled 'Configurations' and contains a 'Mode' dropdown menu and eight rows of configuration fields labeled 'Address1' through 'Address8'. Each row includes an input field for the IP address and a 'Protocol' dropdown menu, all currently set to 'None'. A red box highlights the 'Mode' dropdown, and another red box highlights the 'Address1' through 'Address8' labels.

Firewall Configurations

1 Mode

Select **OFF** to disable the filtering of the specified IP address. Select **Allow** or **Deny** in the drop-down menu to specify the type of filtering rule applied to the IP address entered.

2 Address1 to Address8

The IP address and associated protocol (**TCP**, **UDP**, or **None**) to filter are entered here. A total of 8 IP addresses can be added to the list.

Save

After all the settings are complete, click the **Save** button to apply the configurations for the changes to take effect.

Network - LDAP



LDAP Configurations

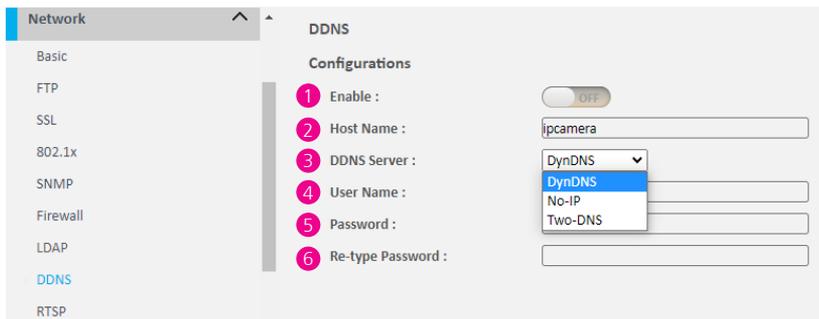
1 Enable

Enable or disable LDAP; use this feature if the camera is connected to a network with LDAP server.

Save

After all the settings are complete, click the **Save** button to apply the configurations for the changes to take effect.

Network - DDNS



The screenshot shows the 'Network' configuration page with the 'DDNS' sub-section selected. On the left, a sidebar lists various network settings: Basic, FTP, SSL, 802.1x, SNMP, Firewall, LDAP, DDNS (highlighted in blue), and RTSP. The main area is titled 'DDNS Configurations' and contains six numbered steps:

- 1 Enable :** A toggle switch is currently set to 'OFF'.
- 2 Host Name :** A text input field contains 'ipcamera'.
- 3 DDNS Server :** A dropdown menu is open, showing three options: 'DynDNS' (highlighted in blue), 'No-IP', and 'Two-DNS'.
- 4 User Name :** An empty text input field.
- 5 Password :** An empty text input field.
- 6 Re-type Password :** An empty text input field.

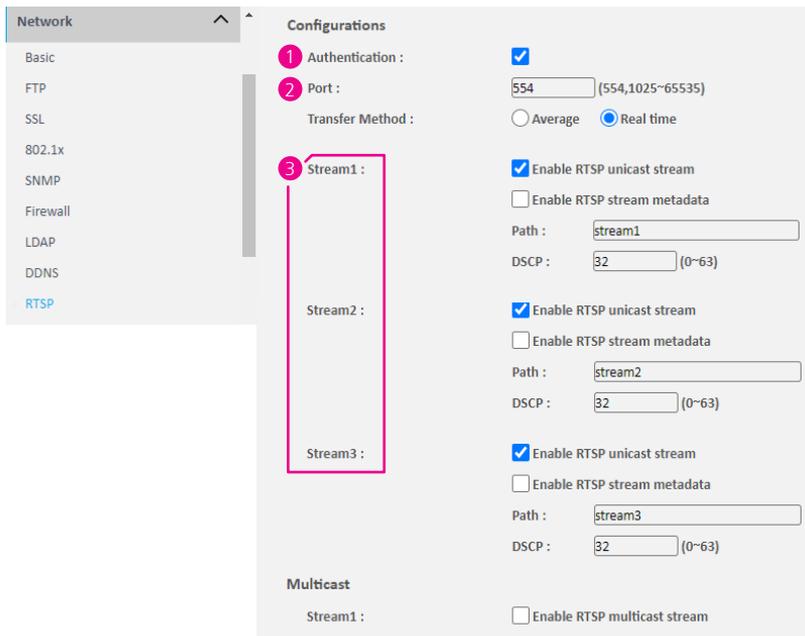
DDNS Configurations

- 1 Enable**
Enable or disable DDNS service.
- 2 Hostname**
Hostname of the DDNS account.
- 3 DDNS Server**
Select the DDNS service provider from the drop-down menu; the available providers are **DynDNS**, **NO-IP**, and **Two-DNS**. The default option is **DynDNS**.
- 4 Username**
Username of the DDNS account.
- 5 Password**
Password of the DDNS account.
- 6 Re-type Password**
Type the same password again for confirmation.

Save

After all the settings are complete, click the **Save** button to apply the configurations for the changes to take effect.

Network - RTSP



Network

- Basic
- FTP
- SSL
- 802.1x
- SNMP
- Firewall
- LDAP
- DDNS
- RTSP

Configurations

1 Authentication :

2 Port : (554,1025~65535)

Transfer Method : Average Real time

3 Stream1 :

Enable RTSP unicast stream

Enable RTSP stream metadata

Path :

DSCP : (0~63)

Stream2 :

Enable RTSP unicast stream

Enable RTSP stream metadata

Path :

DSCP : (0~63)

Stream3 :

Enable RTSP unicast stream

Enable RTSP stream metadata

Path :

DSCP : (0~63)

Multicast

Stream1 : Enable RTSP multicast stream

RTSP Configurations

1 Authentication

Enable or disable verification of the account and password. The account and password are the same as the camera's login account and password.

2 Port

Configure the port number for stream 1 to stream 3. The range is 554/1025~65535. Select Transfer Method, Average or Real Time.

3 Stream 1 to Stream 3

Enable or disable RTSP unicast for stream 1 to stream 3. The RTSP DSCP number and pathname for each stream can be configured here.

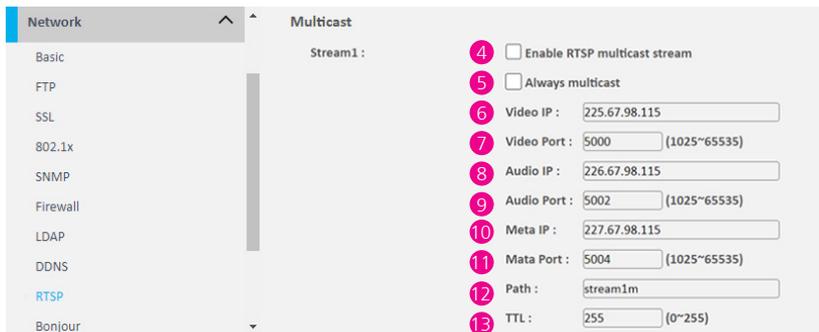
Default URL Path of Stream 1 to Stream 3

Stream 1: rtsp://cameralP/stream1

Stream 2: rtsp://cameralP/stream2

Stream 3: rtsp://cameralP/stream3

Network - RTSP



Network

- Basic
- FTP
- SSL
- 802.1x
- SNMP
- Firewall
- LDAP
- DDNS
- RTSP
- Bonjour

Multicast

Stream1 :

- Enable RTSP multicast stream
- Always multicast
- Video IP : 225.67.98.115
- Video Port : 5000 (1025~65535)
- Audio IP : 226.67.98.115
- Audio Port : 5002 (1025~65535)
- Meta IP : 227.67.98.115
- Meta Port : 5004 (1025~65535)
- Path : stream1m
- TTL : 255 (0~255)

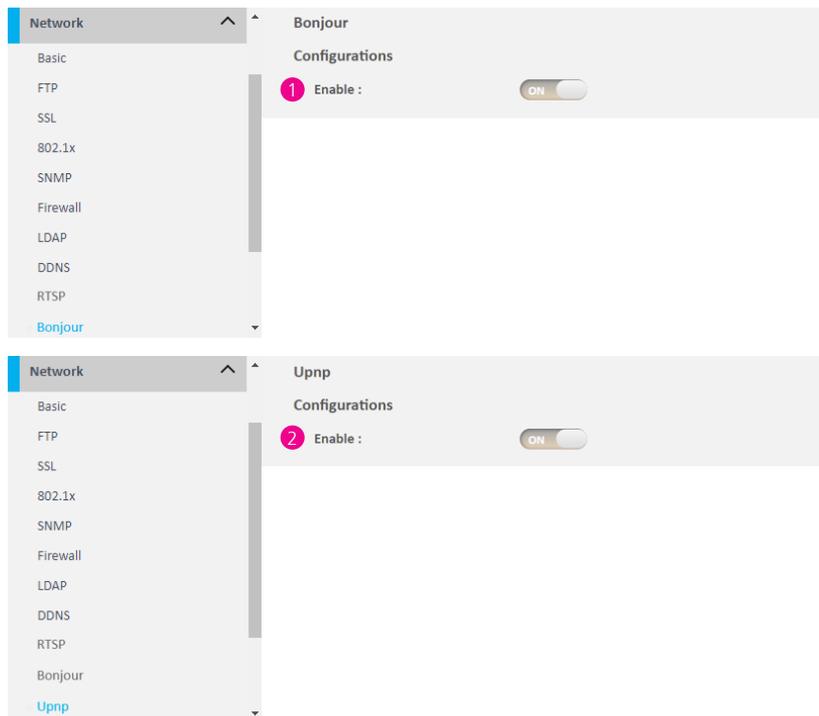
Save

After all the settings are complete, click the **Save** button to apply the configurations for the changes to take effect.

Multicast (Stream 1 to Stream 3)

- 4 Enable RTSP Multicast**
Enable or disable RTSP multicast streaming.
- 5 Always Multicast**
Check to enable the video stream to start the multicast streaming without using RTCP.
- 6 Video IP**
Configure the multicast address to stream video.
- 7 Video Port**
Configure the port number of the video stream.
- 8 Audio IP**
Configure the multicast address to stream audio.
- 9 Audio Port**
Configure the port number of the audio stream.
- 10 Meta IP**
Configure the multicast address for the html meta.
- 11 Meta Port**
Configure the port number of the html meta.
- 12 Path**
Configure the URL address of the video stream.
- 13 TTL**
Configure the time-to-live threshold of the multicast datagram before it is discarded by the router.

Network - Bonjour / UPnP



Bonjour / Upnp Configurations

1 Bonjour

Turn on the Bonjour and open the Safari bookmark to search for the camera on the list.

2 Upnp

When UPnP is enabled, whenever the IP camera is presented to the LAN, the icon of the connected IP cameras will appear in My Network Places to allow for direct access.

Save

After all the settings are complete, click the **Save** button to apply the configurations for the changes to take effect.

System - Date / Time

The screenshot shows the 'Date/Time' configuration page. On the left is a navigation menu with 'System' selected. The main content area has three sections:

- Date/Time:** Shows 'Current Server Time' with 'Date : 2/14/2024' and 'Time : 12:02:06 PM'. Below this is the 'Display Format Setting' (1) with a dropdown menu showing '2/14/2024 12:02:06 PM' and 'Date & Time Format' set to '12HR'.
- Time Settings:** Contains radio buttons for 'DHCP' (2), 'NTP Server' (3) with the address 'pool.ntp.org', 'Synchronize with computer time' (4), and 'Set Date and Time' (5). A 'Sync' button is next to the NTP Server field.
- Time Zone Setting:** Shows 'Time Zone' (6) set to 'America' with a sub-menu showing 'New_York'.

Save

After all the settings are complete, click the **Save** button to apply the configurations for the changes to take effect.

Display Format Setting

1 Display Format

Display the current date and time. The drop-down menu offers a choice of formats. The available options are **MM/DD/YY**, **MM/DD/YYYY**, **YY/MM/DD**, **YYYY-MM-DD**, **DD/MM/YY**, **DD/MM/YYYY**, or **YYYY/MM/DD**. Select Date and time format from **24HR** or **12HR**.

Time Settings

2 DHCP

If your DHCP server provides NTP server information, select this setting to enable NTP information retrieval.

3 NTP Server

Select this option to configure the NTP server address manually for date and time synchronization.

4 Sync with computer time

Manually synchronize with the current computer date and time. Click the **Sync** button when this is selected.

5 Set Date and Time

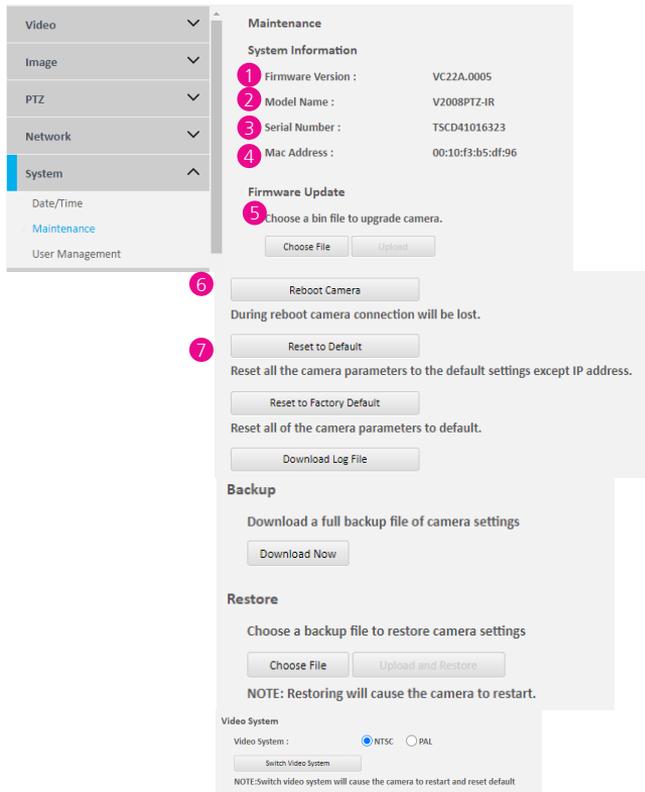
Manually define the date and time. The format is **yyyy/mm/dd** or **hh:mm:ss**.

Time Zone Setting

6 Time Zone

Select the time zone relevant to your location in the drop-down menu.

System - Maintenance



Maintenance

System Information

1 Firmware Version : VC22A.0005

2 Model Name : V2008PTZ-IR

3 Serial Number : TSCD41016323

4 Mac Address : 00:10:f3:b5:df:96

Firmware Update

5 Choose a bin file to upgrade camera.

Choose File Upload

6 Reboot Camera

During reboot camera connection will be lost.

7 Reset to Default

Reset all the camera parameters to the default settings except IP address.

Reset to Factory Default

Reset all of the camera parameters to default.

Download Log File

Backup

Download a full backup file of camera settings

Download Now

Restore

Choose a backup file to restore camera settings

Choose File Upload and Restore

NOTE: Restoring will cause the camera to restart.

Video System

Video System : NTSC PAL

Switch Video System

NOTE: Switch video system will cause the camera to restart and reset default

System Information

- Firmware Version**
Display the current firmware version.
- Model Name**
Display the IP camera model number.
- Serial Number**
Display the IP camera serial number.
- MAC Address**
Display the IP camera MAC number.

Firmware Update

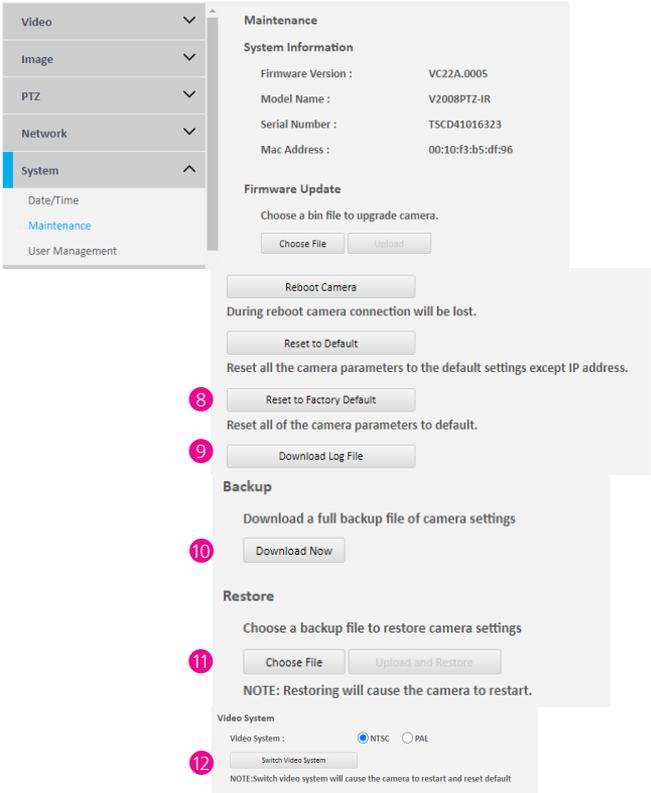
- Firmware Update**
To update the camera's firmware, click on the **Choose File** button and locate the firmware image file; once the file is selected, press the **Upload** button to begin.



During the update, **DO NOT** disconnect the network cable, reset, or power off the IP camera, as this may damage the device.

- Reboot Camera**
Click this button to reboot the camera.
- Reset to Default**
Click this button to restore all the camera's setting back to factory default except IP address (keeps all the settings on the [Network Basic](#) setting page).

System - Maintenance



Maintenance

System Information

Firmware Version : VC22A.0005
 Model Name : V2008PTZ-IR
 Serial Number : TSCD41016323
 Mac Address : 00:10:f3:b5:df:96

Firmware Update

Choose a bin file to upgrade camera.

Choose File Upload

Reboot Camera

During reboot camera connection will be lost.

Reset to Default

Reset all the camera parameters to the default settings except IP address.

Reset to Factory Default

Reset all of the camera parameters to default.

Download Log File

Backup

Download a full backup file of camera settings

Download Now

Restore

Choose a backup file to restore camera settings

Choose File Upload and Restore

NOTE: Restoring will cause the camera to restart.

Video System

Video System : NTSC PAL

Switch Video System

NOTE: Switching video system will cause the camera to restart and reset default

8 Reset to Factory Default

Click this button to restore all the camera's setting back to factory default, including IP address (default is DHCP).

9 Download Log File

Record all the status information of the camera in list format when the camera is connected to the PC. Downloads the log file to the computer as a text file.

Backup

10 Download Now

Download the current camera settings to a backup file.

Restore

11 Update and Restore

Click on the **Choose File** button and locate the backup file; once the file is selected, press the **Update and Restore** button to restore camera settings.

Video System

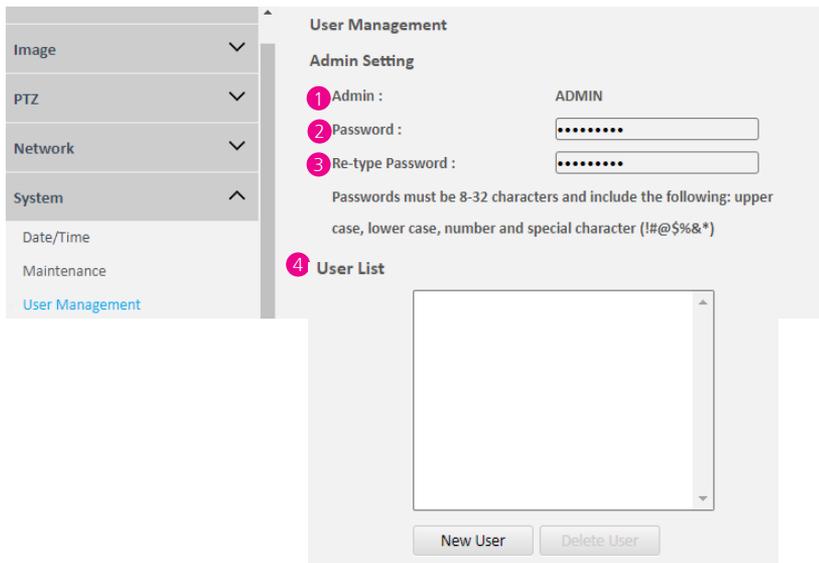
12 Switch Video System

Click **Switch Video System** button to select a desired video system type.



Switching the video system type will cause the camera to restart and reset to default.

System - User Management



User Management

Admin Setting

1 Admin : ADMIN

2 Password :

3 Re-type Password :

Passwords must be 8-32 characters and include the following: upper case, lower case, number and special character (!#@\$%&*)

4 **User List**

Admin Setting

- 1 **Admin**
The default username is ADMIN and cannot be changed.
- 2 **Password**
Set up the password for administrator's authorization.
- 3 **Re-type Password**
Retype the same password to confirm.

User List

- 4 **User List**
Display user accounts available on the camera.
Press **New User** to add a new account and set up the authorization level of this user from the following User Information. To delete an account, press the **Delete User** button.

System - User Management



System ^

- Date/Time
- Maintenance
- User Management**
- Homepage Layout

User Information

5 Access Level : Admins Views

6 Username :

7 Password :

8 Re-type Password :

User Information

This section allows users to set up each new user's authorization level. A total of ten accounts can be created for Admins/Views.

5 Access Level

Admins: Has full control (read/write) over every configuration menu item.
Views: Only has access (read) to the live view of the camera (main screen).

6 User Name

Username must be at least 1 and up to 16 characters.

7 Password

Password must be between 8-32 characters and include upper case, lower case, number and a special character (!#\$%&*).

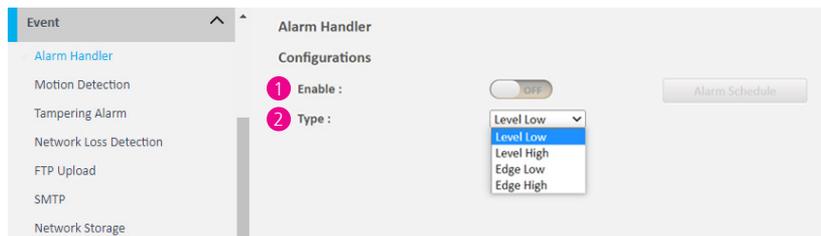
8 Re-type Password

Retype the same password to confirm.

Save

After all the settings are complete, click the **Save** button to apply the configurations for the changes to take effect.

Event - Alarm Handler



Alarm Schedule Settings

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Sun																										S	D
Mon																										S	D
Tue																										S	D
Wed																										S	D
Thu																										S	D
Fri																										S	D
Sat																										S	D

Sunday : Start : : End : :
 Monday : Start : : End : :
 Tuesday : Start : : End : :
 Wednesday : Start : : End : :
 Thursday : Start : : End : :
 Friday : Start : : End : :
 Saturday : Start : : End : :

Alarm Handler Configurations

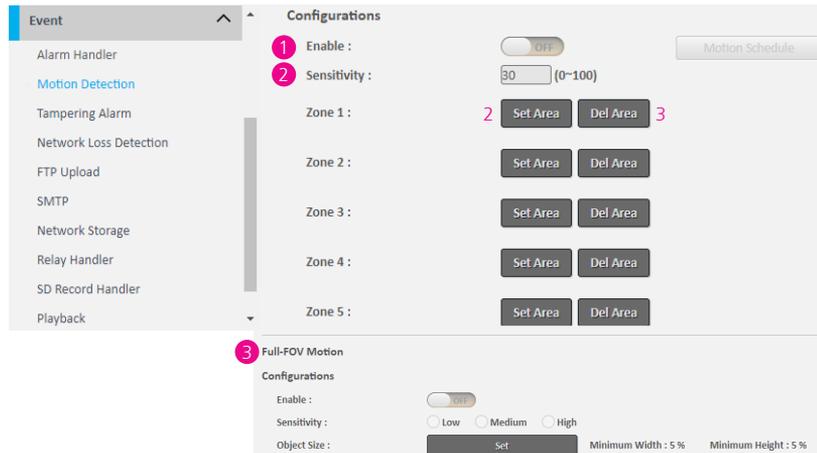
- Enable**
Enable or disable the alarm function.
- Type**
Configure for handling alarm signals or events. Available options are **Level Low**, and **Level High**.
- Alarm Schedule Settings**
S: Press S for a particular weekday to set up a 24-hour schedule automatically.
D: Press D for a particular weekday to clear all the previous scheduled settings automatically.

Configure the scheduled time by holding down the mouse button and clicking the time block to enable the schedule settings on the selected time.

A light blue color on the time block indicates that the alarm schedule is enabled, while a light gray color indicates that the alarm schedule is disabled.

Alternatively, manually enter numbers to configure the hours and minutes from start to end for all weekdays.
- Save**
After all the settings are complete, click the **Save** button to apply the configurations for the changes to take effect.
- Close**
Press to exit the schedule setting page.

Event - Motion Detection



Motion Configurations

This section configures which area(s) of the live video will be monitored for detecting motion.

- 1 **Enable**
Enable or disable motion detection function.
- 2 **Sensitivity**
Configure the sensitivity of motion detection; the range is 0 to 100.

Zone 1 to Zone 5 Setup

Configure the type of area layout to use for motion detection. Up to 5 zones can be configured. The instructions below illustrate how to set up the zones.

1. To create zone 1, on the live video screen, select the area to set the zone by holding down the mouse button and drag to make a rectangle shape; release the button once the desired area is covered.
2. Press the **Set Area** button in zone 1 to set this area as motion zone 1. Repeat the above steps to create motion areas for zones 2 to 5 if necessary.
3. To delete an area, find the motion zone number you would like to remove, and press the **Del Area** button.

- 3 **Full-FOV Motion**
Enable the function and select **Sensitivity, Low, Medium** or **High**. Set up the minimum size of the object to capture motion (default is 5% for the scene). Click **Set** to use the cursor to select the size.

Event - Motion Detection

Motion Schedule Settings

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		
Sun																									S	D
Mon																									S	D
Tue																								S	D	
Wed																								S	D	
Thu																								S	D	
Fri																								S	D	
Sat																								S	D	

Sunday : Start : : End : :
 Monday : Start : : End : :
 Tuesday : Start : : End : :
 Wednesday : Start : : End : :
 Thursday : Start : : End : :
 Friday : Start : : End : :
 Saturday : Start : : End : :

Motion Schedule Settings

3 S: Press S for a particular weekday to set up a 24-hour schedule automatically.

D: Press D for a particular weekday to clear all the previous scheduled settings automatically.

Configure the scheduled time by holding down the mouse left button and clicking the time block to enable the schedule settings on the selected time.

A light blue color on the time block indicates that the alarm schedule is enabled, while a light gray color indicates that the alarm schedule is disabled.

Alternatively, manually enter numbers to configure the hours and minutes from start to end for all weekdays.

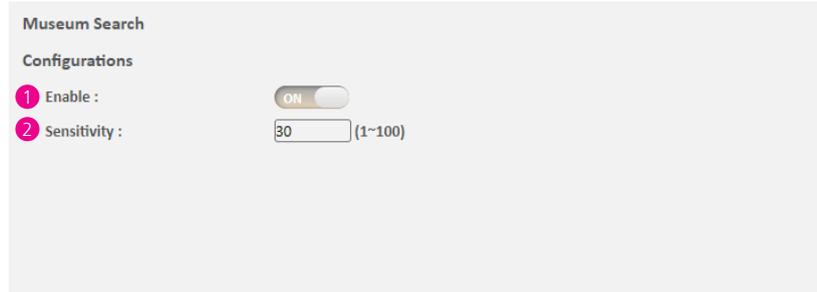
4 Save

After all the settings are complete, click the **Save** button to apply the configurations for the changes to take effect.

5 Close

Press to exit the schedule setting page.

Event - Museum Search



Museum Search

Configurations

1 Enable : ON

2 Sensitivity : (1-100)

Museum Search Settings

- 1 **Enable**
Museum Search is on by default.
- 2 **Sensitivity**
Configure the sensitivity of Museum Search; the range is 1 to 100.

Save

After all the settings are complete, click the **Save** button to apply the configurations for the changes to take effect.

Event - Tampering Alarm



Tampering Schedule Settings

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		
Sun																									S	D
Mon																									S	D
Tue																									S	D
Wed																									S	D
Thu																									S	D
Fri																									S	D
Sat																									S	D

Sunday : Start : : End : :
 Monday : Start : : End : :
 Tuesday : Start : : End : :
 Wednesday : Start : : End : :
 Thursday : Start : : End : :
 Friday : Start : : End : :
 Saturday : Start : : End : :

Tampering Alarm Configurations

- Enable**
Enable or disable the tampering alarm function.
- Sensitivity**
Configure the sensitivity level of tampering detection; the options are **High**, **Mid**, and **Low**.
- Tampering Alarm Settings**

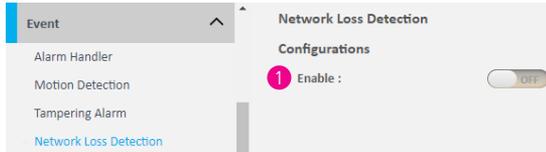
S: Press S for a particular weekday to set up a 24-hour schedule automatically.

D: Press D for a particular weekday to clear all the previous scheduled settings automatically.

Configure the scheduled time by holding down the mouse button and clicking the time block to enable the schedule settings on the selected time. A light blue color on the time block indicates that the alarm schedule is enabled, while a light gray color indicates that the alarm schedule is disabled.

Alternatively, manually enter numbers to configure the hours and minutes from start to end for all weekdays.
- Save**
After all the settings are complete, click the **Save** button to apply the configurations for the changes to take effect.
- Close**
Press to exit the schedule setting page.

Event - Network Loss Detection



Network Loss Detection Configurations

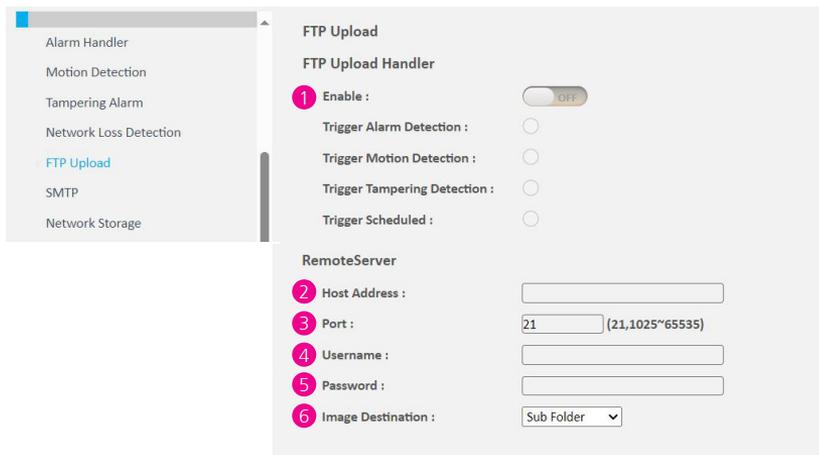
1 Enable

Enable or disable the network loss detection function.

Save

After all the settings are complete, click the **Save** button to apply the configurations for the changes to take effect.

Event - FTP Upload



FTP Upload Handler Configurations

1 Enable

Enable the FTP upload feature. Select which type of event trigger to enable. The options are:

- Trigger Alarm Detection
- Trigger Motion Detection
- Trigger Tamper Detection
- Trigger Scheduled

Remote Server

2 Host Address

Specify the host name or IP address of the FTP server that the camera will connect to.

3 Port

Specify the port number of the FTP server (21, 1025 - 65535).

4 Username

Enter the username.

5 Password

Enter the password

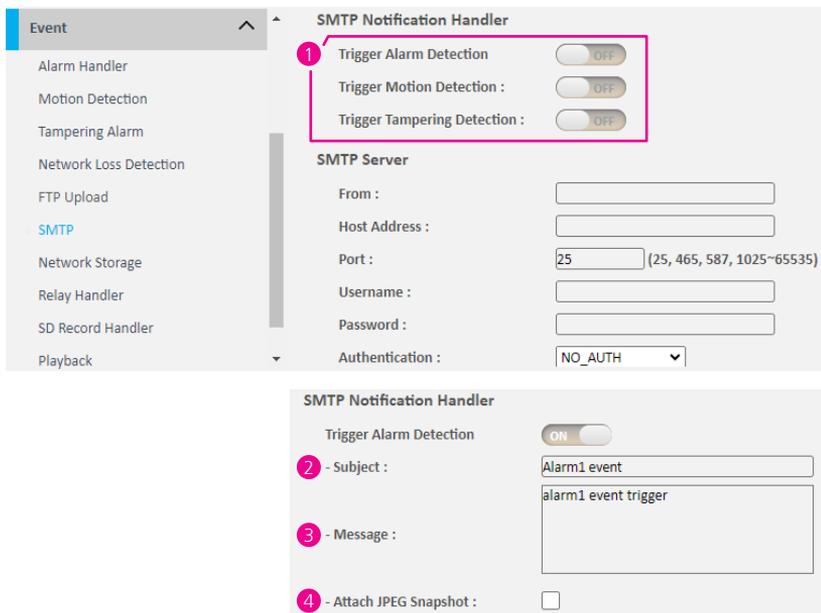
6 Image Destination

Select **Sub Folder** or **Single Folder**.

Save

After all the settings are complete, click the **Save** button to apply the configurations for the changes to take effect.

Event - SMTP



SMTP Notification Handler

1 Trigger Alarm Detection OFF

Trigger Motion Detection : OFF

Trigger Tampering Detection : OFF

SMTP Server

From :

Host Address :

Port : (25, 465, 587, 1025~65535)

Username :

Password :

Authentication :

SMTP Notification Handler

Trigger Alarm Detection ON

2 - Subject :

3 - Message :

4 - Attach JPEG Snapshot :

SMTP Notification Handler

In this section, configure the SMTP mail server address that the camera will use to send e-mails.

1 Trigger Event

Configure which type of event trigger to enable and the SMTP server address that the camera will connect to. The options are:

- Trigger Alarm Detection
- Trigger Motion Detection
- Trigger Tampering Detection

After enabling the required option, additional settings will become available for configuration.

2 Subject

Specify the subject of the message.

3 Message

Specify the message content.

4 Attach JPEG Snapshot

Enable or disable e-mail delivery of trigger event snapshots.

Event - SMTP

SMTP Server

5 From :

6 Host Address :

7 Port : (25, 465, 587, 1025-65535)

8 Username :

9 Password :

10 Authentication : ▼

11 Recipient List

Enable	No	Email	Alarm	Motion	Tampering
<input type="checkbox"/>	1	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	2	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	3	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	4	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	5	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	6	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	7	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	8	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	9	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

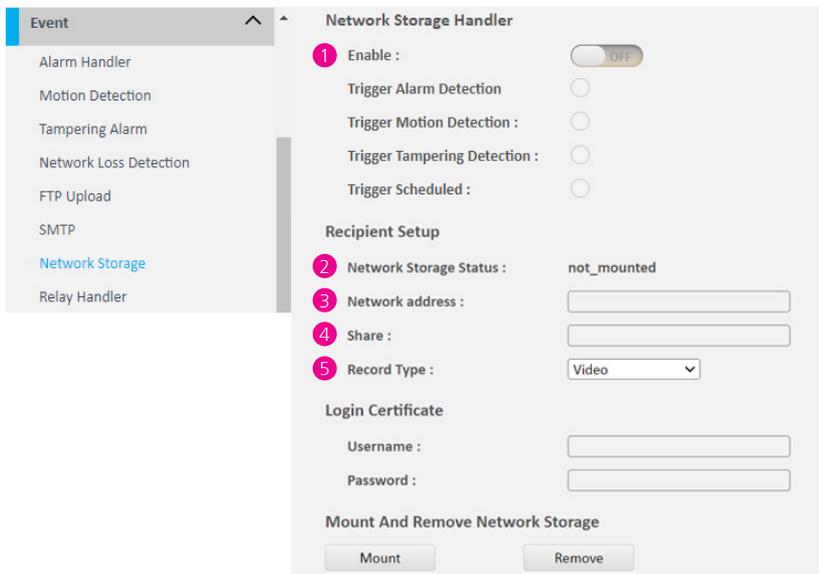
SMTP Server

- 5 **From**
Specify the email address of the sender.
- 6 **Host Address**
Specify the host name or IP address of the SMTP mail server.
- 7 **Port**
Specify the port number of the SMTP mail server.
- 8 **Username**
Specify the login username for the SMTP mail server.
- 9 **Password**
Specify the login password for the SMTP mail server.
- 10 **Authentication Mode**
Specifies the SMTP server authentication mode; the options are **NO_AUTH**, **SMTP_PLAIN**, **LOGIN**, and **TLS_TLS**.
- 11 **Recipient List**
Specify an e-mail address to send the e-mail to when an event is triggered by **Alarm**, **Motion**, or **Tampering**. A maximum of 10 e-mail addresses can be configured.

Save

After all the settings are complete, click the **Save** button to apply the configurations for the changes to take effect.

Event - Network Storage



Event

- Alarm Handler
- Motion Detection
- Tampering Alarm
- Network Loss Detection
- FTP Upload
- SMTP
- Network Storage**
- Relay Handler

Network Storage Handler

1 Enable : OFF

Trigger Alarm Detection :

Trigger Motion Detection :

Trigger Tampering Detection :

Trigger Scheduled :

Recipient Setup

2 Network Storage Status : not_mounted

3 Network address :

4 Share :

5 Record Type : Video

Login Certificate

Username :

Password :

Mount And Remove Network Storage

Mount Remove

Network Storage Handler

In this section, configure the network storage server address that the camera will use when an event trigger is detected.

1 Enable

Enable the network storage feature and select which type of event trigger to enable and the network storage server that the camera will connect to. The options are:

- Enable Trigger Alarm Detection
- Enable Trigger Motion Detection
- Enable Trigger Tampering Detection
- Enable Trigger Scheduled

Recipient Setup

2 Network Storage Status

Display the current connection status with the network storage server (**not_mounted** or **ok**).

3 Network Address

Specify the IP address of the network storage server.

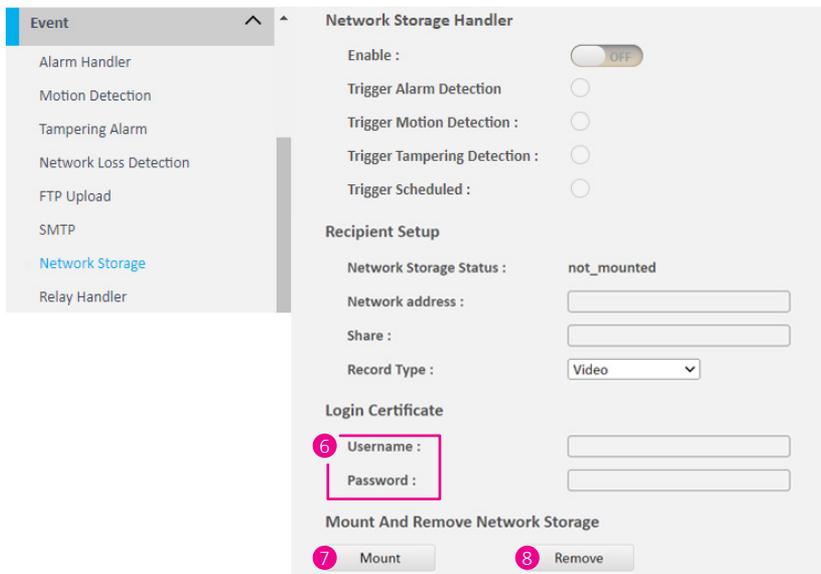
4 Share

Specify the shared folder name on the network storage server.

5 Record Type

Specify the event trigger action. The options are **Snapshot** and **Video**.

Event - Network Storage



Event

- Alarm Handler
- Motion Detection
- Tampering Alarm
- Network Loss Detection
- FTP Upload
- SMTP
- Network Storage**
- Relay Handler

Network Storage Handler

Enable : OFF

Trigger Alarm Detection :

Trigger Motion Detection :

Trigger Tampering Detection :

Trigger Scheduled :

Recipient Setup

Network Storage Status : not_mounted

Network address :

Share :

Record Type : Video

Login Certificate

6 Username :

6 Password :

Mount And Remove Network Storage

7 Mount

8 Remove

Login Certificate

6 Username and Password

Specify the login username and password for the network storage server.

Mount and Remove Network Storage

7 Mount

Set up a network connection with the network storage server. All the video recordings or snapshots from event triggers will be uploaded to the network storage server. After the setting is complete, the **Network Storage Status** will display **ok**.

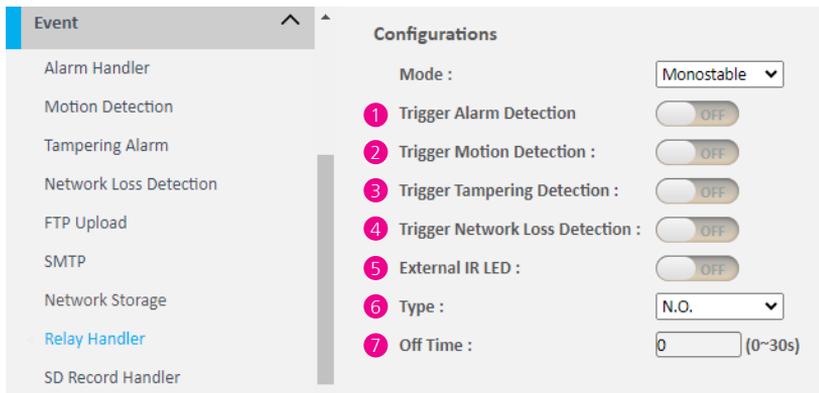
8 Remove

Delete the previous setting or set up a new one. After the setting is removed, the **Network Storage Status** will display **not_mounted**.

Save

After all the settings are complete, click the **Save** button to apply the configurations for the changes to take effect.

Event - Relay Handler



Event

- Alarm Handler
- Motion Detection
- Tampering Alarm
- Network Loss Detection
- FTP Upload
- SMTP
- Network Storage
- Relay Handler**
- SD Record Handler

Configurations

Mode :

- 1 Trigger Alarm Detection :
- 2 Trigger Motion Detection :
- 3 Trigger Tampering Detection :
- 4 Trigger Network Loss Detection :
- 5 External IR LED :
- 6 Type :
- 7 Off Time : (0~30s)

6 Type

The options are **N.O.** and **N.C.**

7 Off Time

Configure the seconds from 0 to 30 seconds.

Save

After all the settings are complete, click the **Save** button to apply the configurations for the changes to take effect.

Relay Handler Configurations

This section configures the event trigger options for devices connected to the DI/DO of the camera.

Mode

Select a mode; the options are **Monostable** or **Bistable**. Enable the trigger.

1 Trigger Alarm Detection

When a signal is detected from **Alarm in**, the **Alarm out** will be triggered.

2 Trigger Motion Detection

When a motion detection event is detected, the **Alarm out** will be triggered.

3 Trigger Tampering Detection

When a tampering detection event is detected, the **Alarm out** will be triggered.

4 Trigger Network Loss Detection

When a network loss detection event is detected, the **Alarm out** will be triggered.

5 External IR LED

When night mode is detected, the external IR LED will be triggered.

Event - SD Record Handler

SD Record Handler

Configurations

1 Enable :

Trigger Alarm Detection :

Trigger Motion Detection :

Trigger Tampering Detection :

Trigger Network Loss Detection :

Trigger Scheduled :

SD Record Handler Configurations

1 Enable

Enable the SD record feature and configure which type of event trigger to enable the SD recording and scheduling function. The following options are available:

- Enable Trigger Alarm Detection
- Enable Trigger Motion Detection
- Enable Trigger Tampering Detection
- Enable Trigger Network Loss Detection
- Enable Trigger Scheduled

Event - SD Record Handler

SD Information

2 Available : 0 MBytes 4 Format SD Card

3 Usage : 0% (0 / 0) MBytes

5 Status : not_mounted

6 Overwrite : ON

7 Record Type : Video ▼

SD Information

- 2 **Available**
If an SD card is installed, this section will display information on the availability of the SD card.
- 3 **Usage**
If an SD card is installed, this section will display the percentage of the total storage used.
- 4 **Format SD Card**
Format the SD card; all data stored on the SD card will be erased if this option is used.
- 5 **Status**
Display whether an SD card is installed or not. If an SD card is detected, **ok** will be displayed; if an SD card is not detected (or a faulty SD card is used), **not_mounted** will be displayed.
- 6 **Overwrite**
Enable or disable SD card overwrite.
- 7 **Record Type**
Configure the recording method to record the stream on to the SD card. The options are **Video** and **Snapshot**.

Event - SD Record Handler

Alarm Detection Settings

8 Pre-event Record : (1~5)

9 Post-event Record : (5~100)

10 FileName Prefix :

11 Server Path :

Motion Detection Settings

8 Pre-event Record : (1~5)

9 Post-event Record : (5~100)

10 FileName Prefix :

11 Server Path :

Tampering Alarm Settings

8 Pre-event Record : (1~5)

9 Post-event Record : (5~100)

10 FileName Prefix :

11 Server Path :

Network Loss Settings

8 Pre-event Record : (1~5)

9 Post-event Record : (5~100)

10 FileName Prefix :

11 Server Path :

Alarm / Motion / Tampering / Network Loss Settings

When the SD Record Handler is enabled, the following options are available when selecting **Video** in the **Record Type** item of SD Information.

8 Pre-event Record

Type in the length of the pre-event recording. The range is 1~5 seconds.

9 Post-event Record

Type in the length of the post-event recording. The range is 5~100 seconds.

10 FileName Prefix

The default filenames are **Alarm_Rec**, **Motion_Rec**, **Tampering_Rec**, **Network_Rec**, and **ScheduledSD**, respectively.

11 Server Path

Configure a folder name on the SD card. The default folder names are **videoAlarm**, **videoMotion**, **videoTampering**, **videoNetwork**, and **videoSchedule**, respectively.

Event - SD Record Handler

Schedule Settings

12 Schedule1 : Start : End : (0*23) hour

Schedule2 : Start : End : (0*23) hour

FileName Prefix :

Server Path :

13 Day / Time Inclusion Filter :

	None	AllDay	Schedule1	Schedule2
Monday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tuesday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Wednesday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Thursday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Friday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Saturday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sunday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Schedule Settings

The following options are available when selecting the **Video** in the **Record Type** item SD Information.

12 Schedule 1 / Schedule 2

Type in the length of time of Schedule 1/Schedule 2 (hours).

13 Day / Time Inclusion Filter

Available options are **None**, **AllDay**, **Schedule1**, and **Schedule2**.

Save

After all the settings are complete, click the **Save** button to apply the configurations for the changes to take effect.

Event - TCP Notify

TCP Notify

Configurations

Trigger Alarm Detection OFF

1 - IP Address :

2 - Port : (1025~65535)

3 - Message :

Trigger Motion Detection : OFF

- IP Address :

- Port : (1025~65535)

- Message :

TCP Notify

Send notifications or alerts when trigger events are detected. The available options are:

- Trigger Alarm Detection
- Trigger Motion Detection
- Trigger Zone1 Motion Detection
- Trigger Zone2 Motion Detection
- Trigger Zone3 Motion Detection
- Trigger Zone4 Motion Detection
- Trigger Zone5 Motion Detection
- Trigger Tampering Detection

Enable the required option to configure the corresponding settings.

1 IP Address

Configure the address number.

2 Port

Configure the port number. The range is 1025~65535.

3 Message

Input messages for the detection.

Save

After all the settings are complete, click the **Save** button to apply the configurations for the changes to take effect.



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