



Installation & Operation Manual

V1000-WIR-360 Multi-Sensor Camera

XX304-40-01



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PREFACE

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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 -20°C to 50°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 CMOS 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 V1020-WIR-180 package contains the following accessories:

Name	Quantity
IP camera	1
Grommet kit	1
Quick installation guide	1
Mounting accessory pack	1

CHAPTER 1: PRODUCT INTRODUCTION

Overview



Hardware Specifications

Camera

- Image sensor: 4pcs: 1/2.8" 4K CMOS progressive sensor
- Lens: 4 Motorized Lenses; 3.1~10mm
- FOV (H/V/D; tele-wide): 32°-96°/24°- 69°/40°-124°
- Maximum resolution (each channel): 2592 to 640x480
- Pan/Tilt: Remotely adjustable, Pan 360°, Tilt 90°
- IR distance:
 - 131 ft (40M) if powered by IEEE802.3bt
 - 98 ft (30M) if powered by IEEE802.3at
- Day and night: Supported
- WDR: 120dB (True WDR)
- Minimum illumination (@30IRE; BW IR Off): 0.03 lux; BW: 0.01 lux
- Electronic shutter speed: Auto/Manual 1/7~1/20000
- Gain control: Auto/Manual
- Backlight compensation: Yes
- White balance mode: Auto/Manual
- Image settings:
 - Brightness, Contrast, Saturation, Sharpness, Mirror, Flip
- Local storage: Support (stream 2, 640*480), 2x SD card
- Analytics: VMD (5 zones), tampering, intrusion detection, line counting/cross, area counting, Museum Search
- Min. Object Distance: 3.28 ft (1 meter)

Video and Audio

- Video compression: H.265/H.264/M-JPEG
- Video streaming: Triple streaming
- Frame rate: Up to 30fps at 20MP

- Audio compression: G.711 8KHz/8 bits (A-Law/U-Law)
- Audio streaming: Two way audio

Network

- Interface: 10/100/1000Mbps Ethernet, RJ45
- Supported protocols: TCP/IP, UDP, ICMP, IPv4, IPv6, SNMP v2c/v3, QoS, HTTP, HTTPS, LDAP (client), SSL, SMTP, FTP, RTSP, UPnP, DNS, NTP, RTP, RTCP, DynDNS, Zero Configure
- ONVIF: Profile S/G/T/Q
- Users: Live viewing/Administrator for up to 10 clients
- Browsers: Internet Explorer, Google Chrome, Mozilla, Firefox

Event Management

- Event trigger: Motion detection 5x5 areas, Tampering detection
- Notifications: Send message via e-mail or FTP

Power

- AC: 24V DC, 24V AC
- PoE: IEEE 802.3at / IEEE 802.3bt PoE Class 5
(auto-detect depends on the power switch you use)

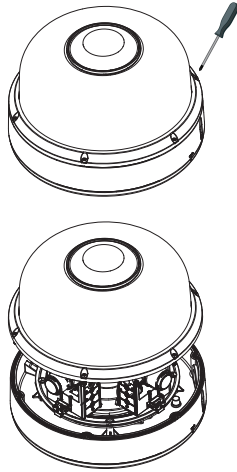
General

- Power consumption: Max. 40 W
- Connectors:
 - Audio Line in*1, Line out*1

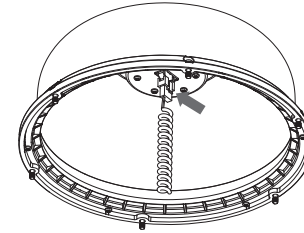
- Digital input*1, Digital output*1;
- DC/AC power input
- RJ45
- Weight: 5.2 LB (2.36 KG)
- Dimension: H: 5.6 in. (142.3 mm) x Ø: 9.7 in. (247.5 mm)
- Operating Temp.: -40°F ~ 131°F (-40°C ~ 55°C) (IR OFF)
- Storage Temp.: -40°F ~ 140°F (-40°C ~ 60°C)
- Humidity: 90% RH (no condensation)
- Certification: CE/FCC
- Vandal Resistant: IK10
- Weatherproof: IP66
- Application: SDK available for application development

Removing the Protective EPE Foam and Preparing the Network Cables

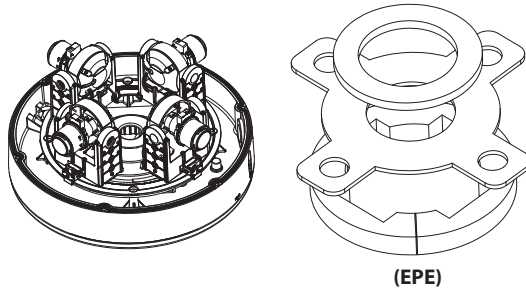
1. Loosen the 6 captive screws on the dome bubble using the torx tool supplied and open it.



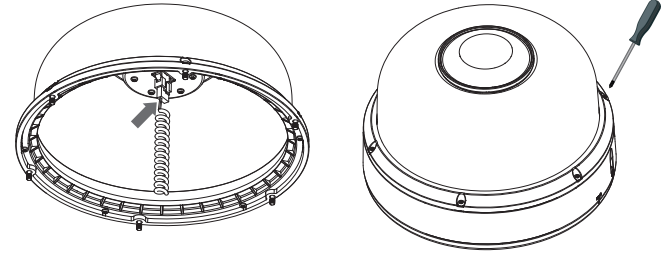
2. Remove the coil cord from the top cover.



3. Remove and discard the protective EPE from the lens modules.

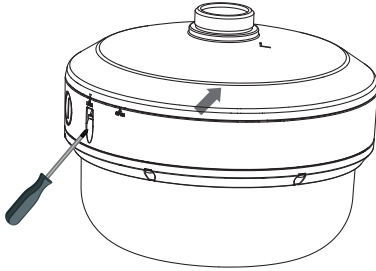


4. Plug the coil cable back to the top cover. Then tighten the 6 captive screws on the top cover.

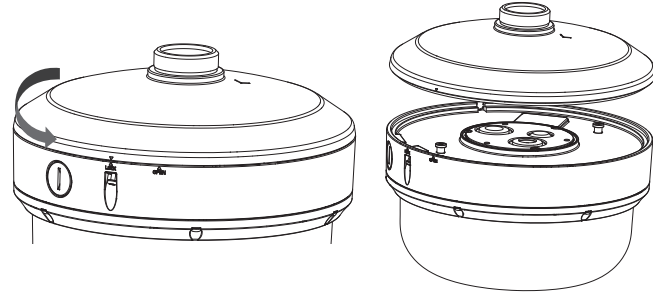


Hardware Installation (Wall/Pendant Mount)

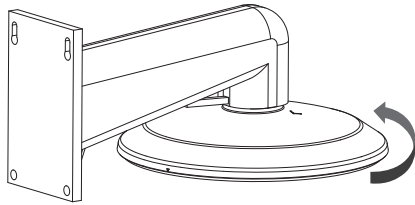
5. Loosen the captive screw on the side of the bottom cover.



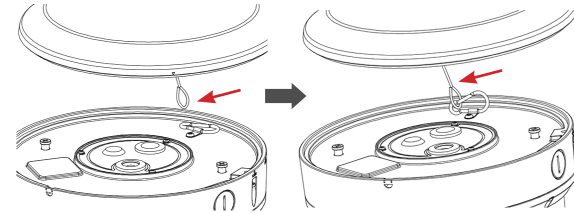
6. Rotate the cap to align ▽ from LOCK to OPEN to remove the cap.



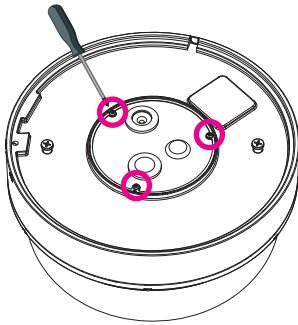
7. Rotate the cap to secure on the wall mount bracket.



8. Attach the safety harness on the camera mounting plate to the hook on the camera bottom.

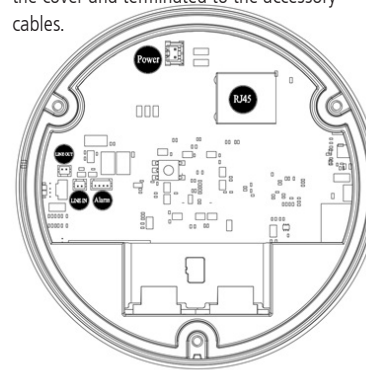


9. Loosen the 3 captive screws on the bottom plate and open it.

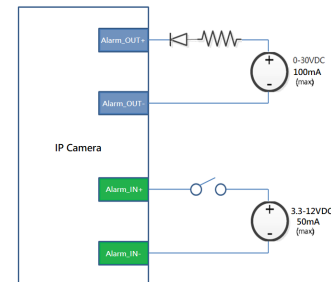
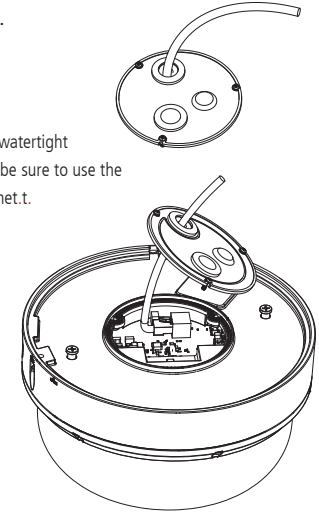


9. 10. Feed the unterminated CAT5 cable through the hole in the solid grommet and terminate the cable with the appropriate connector. If using terminated CAT5 cable, use RJ-45 cap provided to help push the connector through the grommet with hole.

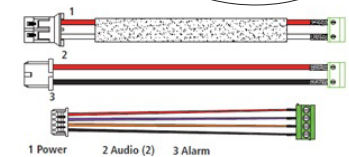
Note: If using the I/O cables, use the I/O cable assembly provided and plug them into the appropriate connector on the PCB. Cables will be run through the grommet on the cover and terminated to the accessory cables.



Note: To maintain watertight integrity/warranty, be sure to use the appropriate grommet.

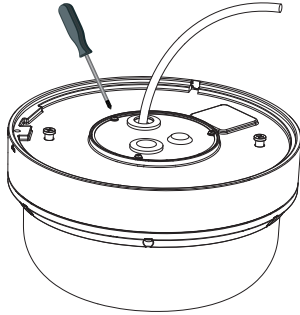


Wiring Diagram for Alarm Inputs/Outputs

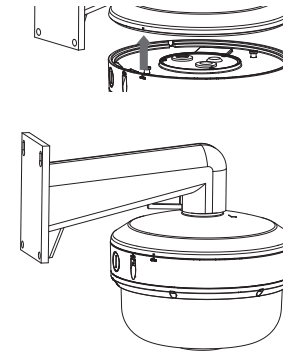


DI (Alarm In)	Trigger (Low)	0.0 ~ 4 V
	Trigger (High)	3.3 ~12 V
DO (Alarm Out)	V in (max)	30 V
	I out (max)	100 mA

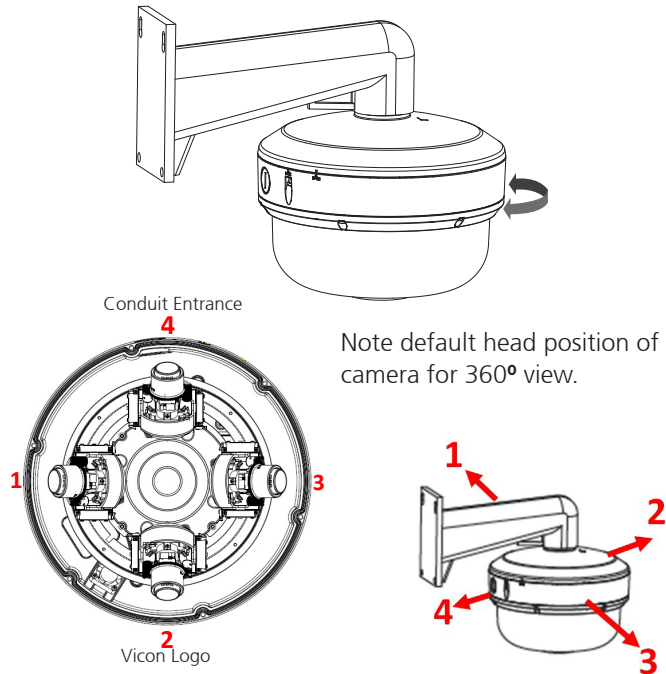
11. Tighten the 3 captive screws on the camera to secure it.



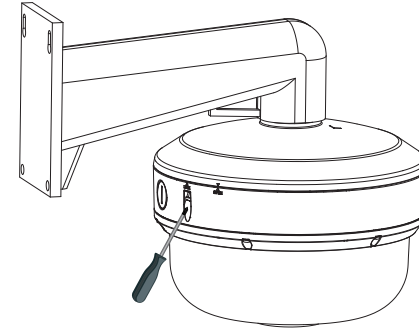
12. Assemble camera with cap first. The ▽ should be aligned with OPEN (▽).



13. Rotate the camera from OPEN to LOCK in order to fix the camera.
The ▽mark should be aligned with the LOCK (▽) mark.

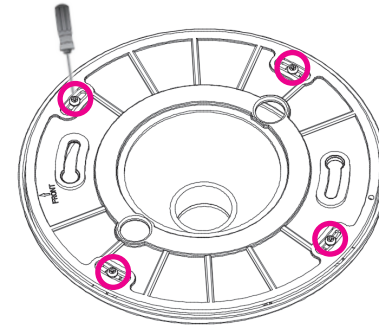
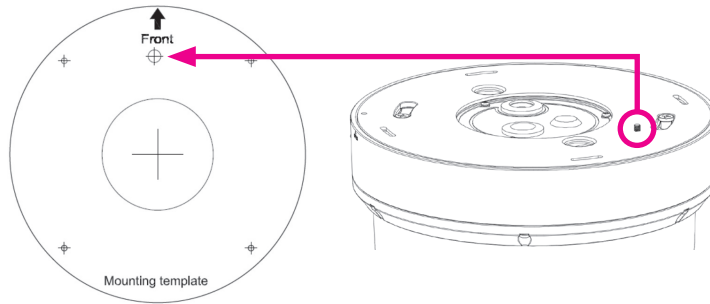


14. Tighten the captive screw on the lateral side of the bottom cover to secure the camera.

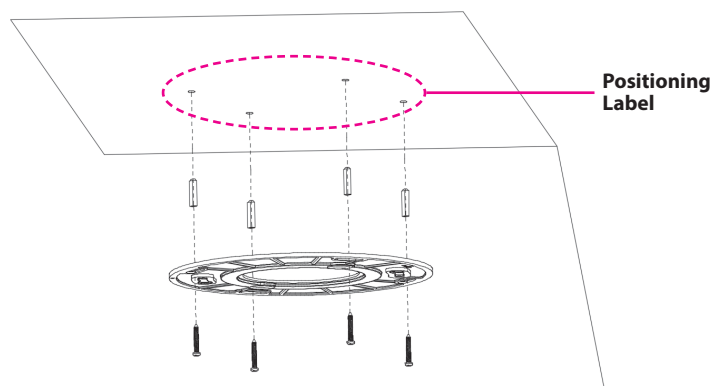


Ceiling Installation

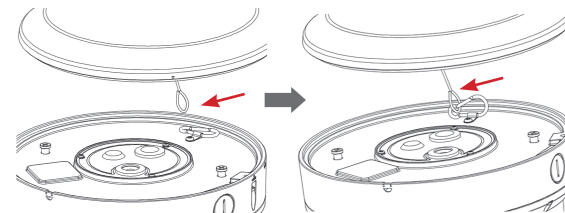
1. Secure the positioning label (mounting template) on to the ceiling. Drill a hole on the \oplus mark to allow the screw on the camera to pass through the drilled hole.
2. Remove the 4 screws on the plate to remove plate from the mounting cap.



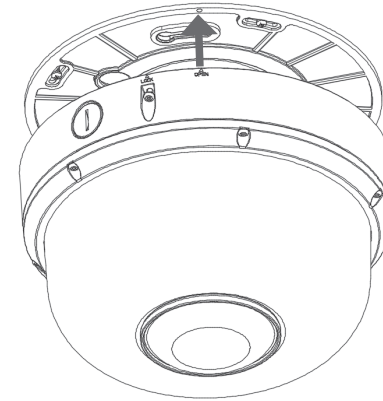
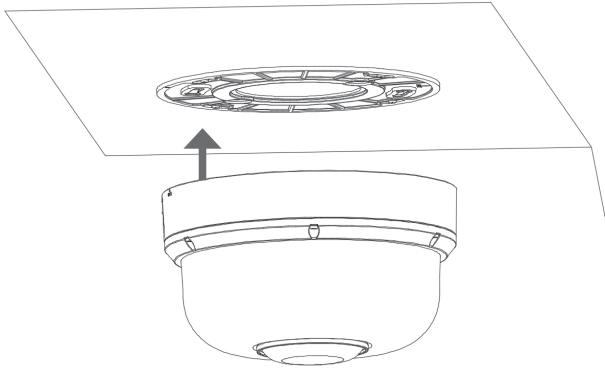
3. Use the supplied expansion bolts (anchors) and screws to secure plate onto the ceiling.



4. Attach the safety harness on the camera mounting plate to the hook on the camera bottom.

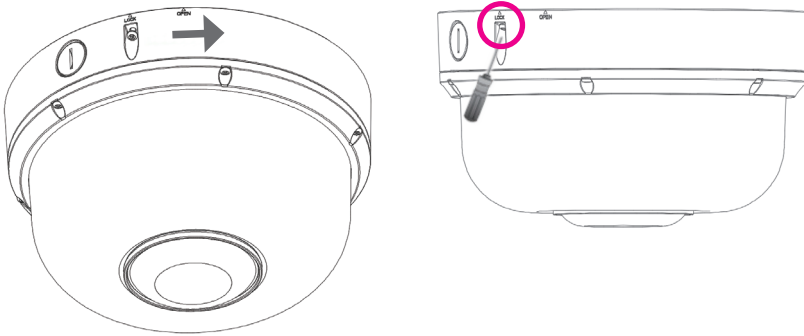


5. Secure the camera to the plate, aligning the screws on the camera with the slots in the plate. Note that the OPEN ▽ should be aligned with the screw hole on the plate (there is only 1 screw hole on the plate).



7. Refer to Step 10 in Wall/Pendant installation for details on preparing the cable.

8. Twist the camera counterclockwise until it is secure and can't move. Then tighten the screw to secure camera on ceiling.



CHAPTER 2: CAMERA CONFIGURATION

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

By default, the camera is set to obtain an IP address via DHCP. If your network does not have a DHCP server, run the IP Finder and click "Search;" you will find the device IP, as shown in the following section.

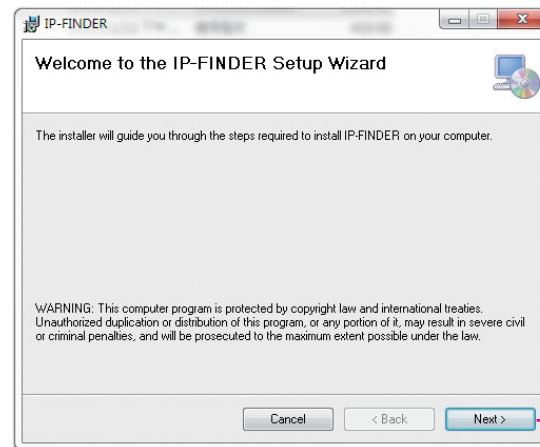
You can access the camera via a **web browser** or **IP-FINDER** software. The following information outlines the instructions for each method.

Installing IP-FINDER Software



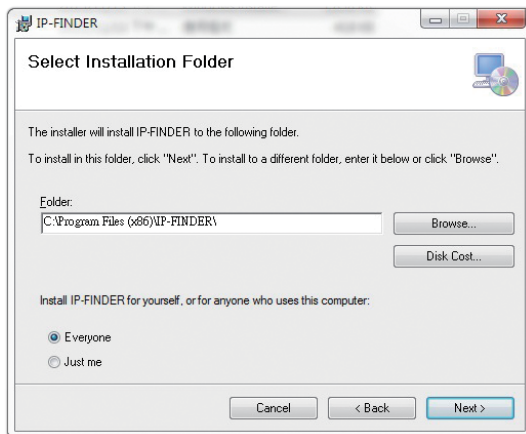
Note: If **IP-FINDER** is already installed, you can skip this section and continue to the next section **IP-FINDER** on page 19.

1. Download the **IP-Finder** installer file; the IP Finder tool (Discovery tool) can be gotten from Vicon's website, Software Downloads.
2. Unzip the IP-FINDER file to a location on the hard drive.
3. Once unzipped, double click on the setup file to start the installation program.
4. Click the **Next** button on the welcome screen to continue.

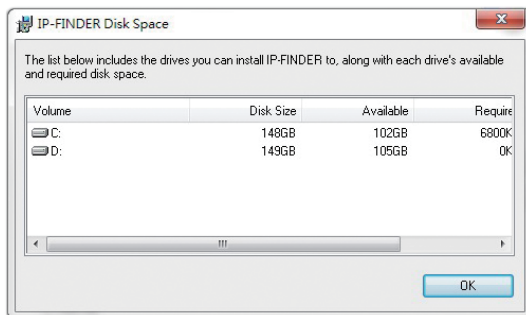


Next button

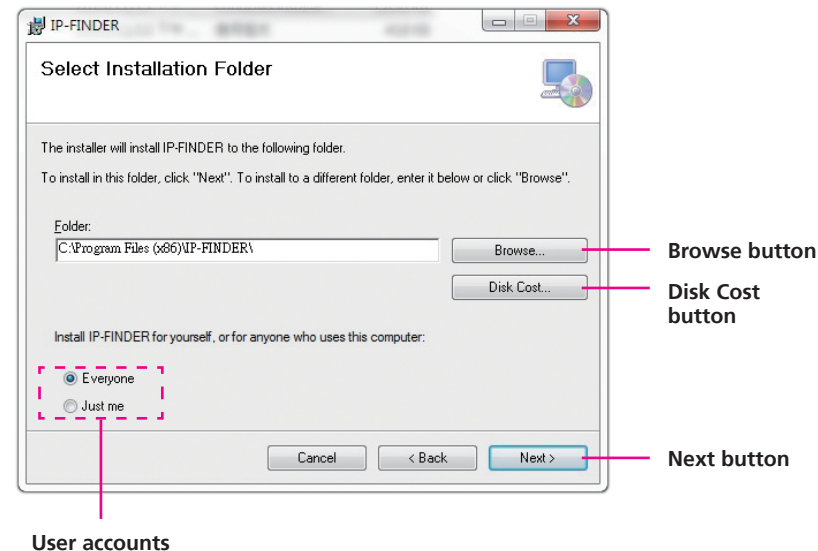
5. Confirm the directory that the program will be installed on. To specify a different folder, please click on the **Browse** button and locate the desired installation folder.



6. To check the available drives you can install the software to and their available and required disk space, please click on the **Disk Cost** button.

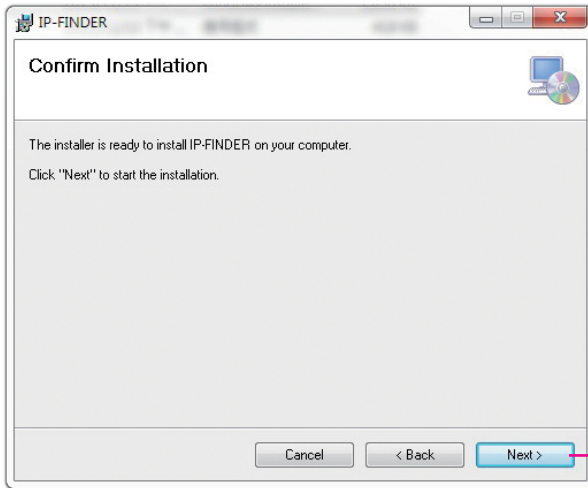


7. Specify which user accounts on the computer can access the program; the options are **Everyone** and **Just me**.



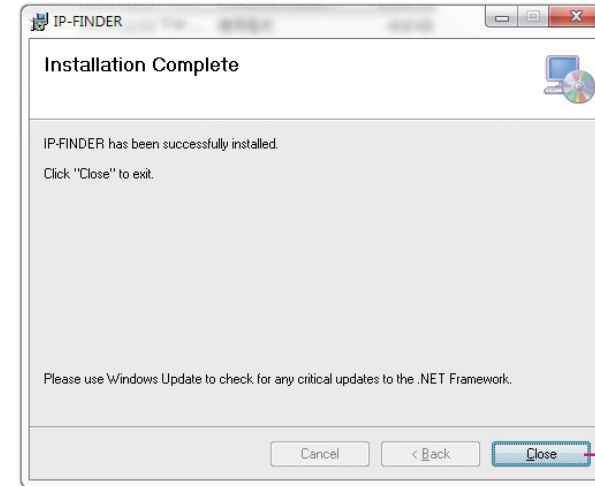
8. Click on the **Next** button to continue.

9. Click on the **Next** button to begin installation.



Next button

10. Once the installation process is complete, click on the **Close** button to finish. A shortcut will be created on the desktop.



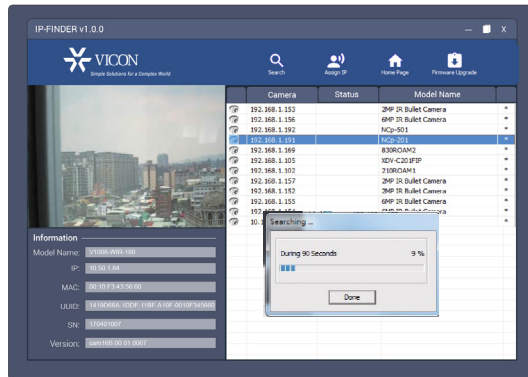
Close button

IP-FINDER

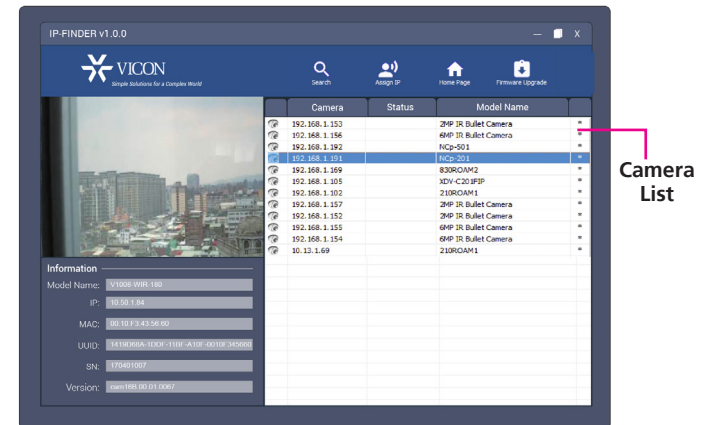
1. Locate and open the **IP-FINDER** software shortcut on the desktop.



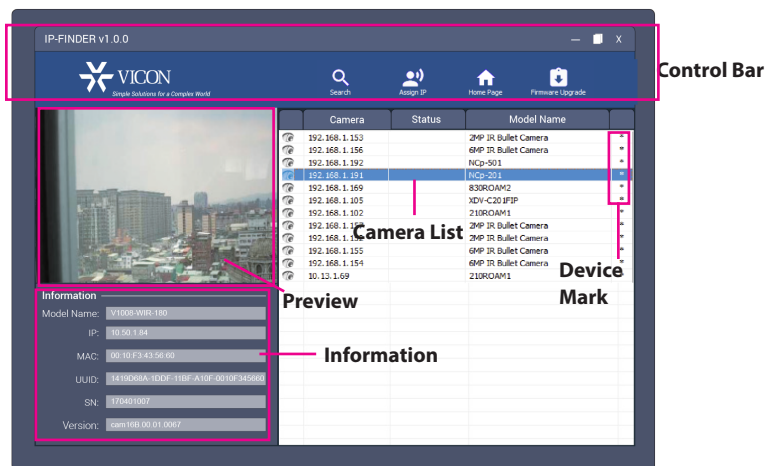
2. When the program is launched, it will begin searching the network for IP cameras automatically (the search will last for up to 90 seconds). You can also manually search cameras by clicking on the **Search** button.



3. Once the camera is discovered, it will show the following information:
 - Model Name
 - IP address
 - MAC address
 - UUID
 - Serial Number
 - Version
4. You can access the menu by double clicking the camera's **IP address** under **Camera List**. The IE will be opened automatically.







Introduction to the IP-FINDER User Interface



UI Block	Description
Control Bar	Contains [Search] , [Assign IP] , [Home Page] and [Firmware Upgrade] buttons.
Preview	Displays the selected camera image.
Information	Displays the selected camera information such as Model Name , IP , MAC , UUID , SN and Version .
Camera List	Lists the cameras discovered by the search function. Each camera shows the "IP" , "Status" , "Model Name" and "Device Mark" . Users can also click the column headers to sort the list.
Device Mark	Asterisk sign indicates that this device has "Preview" , "Assign IP" and "Firmware Upgrade" functions.

Button Functions

Function	Button	Description
Search		Discovers IP cameras available on the network.
Assign IP		Changes the IP address of the camera.
Home Page		Opens the web browser to the home page of the camera.
Firmware Upgrade		Upgrades the camera firmware.

Search

When the **[Search]** button is clicked, the application will start searching cameras on the network. To stop searching, click the **[Done]** button.

Assign IP

When the **[Assign IP]** button is clicked, a pop-up window "IP Address Configuration" will appear, providing options to use DHCP or static IP address.

Home Page

To view the home page of a particular camera, double click on the camera in the list, the web browser will open and redirect to the home page. To access the home page of two or more cameras, tick the box of the cameras you wish to view and click on the **[Home Page]** button.

Firmware Upgrade

To update the camera firmware, tick the box of the cameras you wish to update and click on the **[Firmware Upgrade]** button. Follow the on-screen prompts to complete the upgrade. If the camera does not support firmware upgrade, a pop-up window will be displayed.

NOTE: Different IP camera models use different firmwares, **please do NOT update the firmware of different models using the same firmware.**

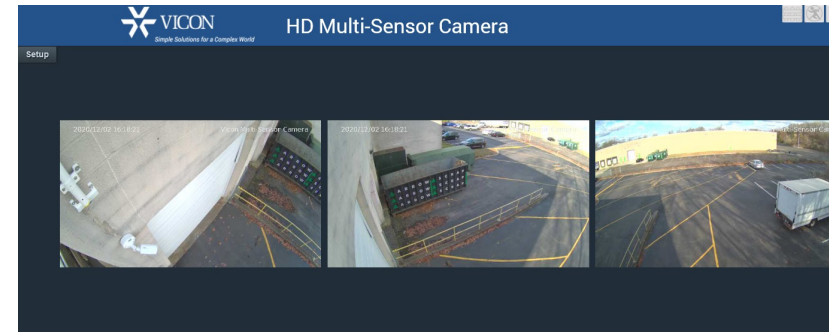
Web Browser

1. Locate and open one of the web browsers (such as Internet Explorer, Chrome, Firefox, etc.) shortcut on the desktop.
2. In the address bar, type IP address of the camera and then press the **Enter** button.
3. You will be prompted with a pop-up window asking for login information, type in **"ADMIN"** (default login name) and **"1234"** (default password).
4. Once logged in, you will see the main screen.



ADMIN

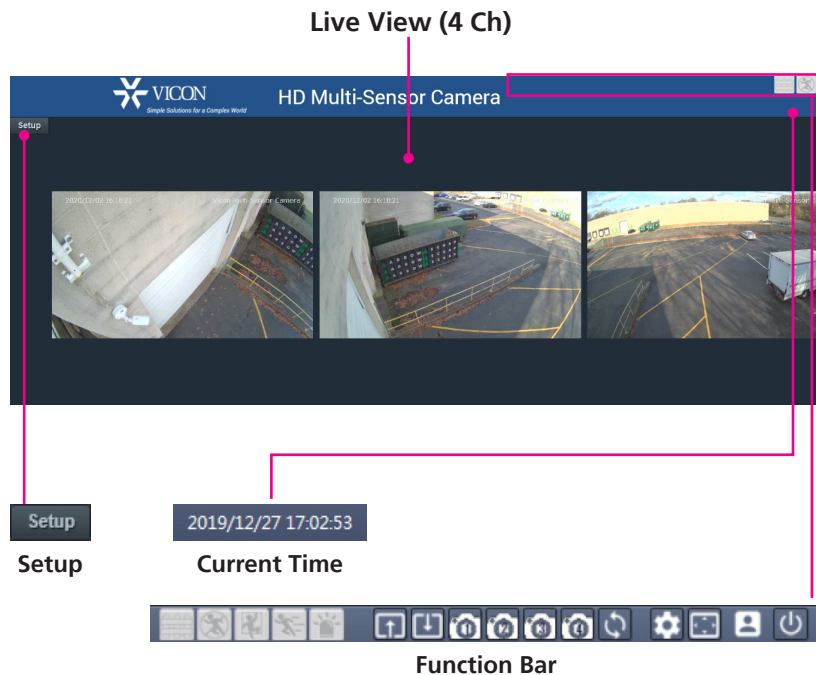
1234

















Note: The recommended browsers to use are Internet Explorer, Safari, Firefox and Chrome. However, Chrome only supports the viewing of the web **Setup** menu; **Live View** of the video stream is not supported.

Main Screen Overview

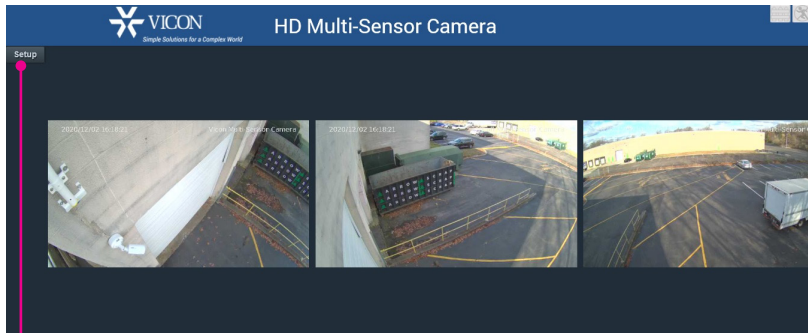
The main screen will be shown after successfully logging into the IP camera. The main screen allows users to view the live video of the 4 channels in the camera and provides options and status icons for configuring and monitoring the camera.



Item	Description
	Enters the setup menu for configuring the IP camera.
	Displays the current date and time.
	Gray: Event detection is disabled or no triggered event is detected. Red: When a line crossing alarm event is triggered, the icon will flash red constantly as a warning.
	Gray: Event detection is disabled or no triggered event is detected. Red: When an intrusion alarm event is triggered, the icon will flash red constantly as a warning.
	Gray: Event detection is disabled or no triggered event is detected. Red: When a tampering alarm event is triggered, the icon will flash red constantly as a warning.
	Gray: Event detection is disabled or no triggered event is detected. Red: When a motion detection event is triggered, the icon will flash red constantly as a warning.
	Gray: Event detection is disabled or no triggered event is detected. Red: When an alarm detection event is triggered, the icon will flash red constantly as a warning.
	Click to take a snapshot of View 1/View 2/View 3/View 4.
	Refreshes the page.
	Switches to full-screen view.
	Options to change the display language.
	Displays the current login account. Move the mouse close to the icon to see which user is currently logged in. "Admins" indicates administrator account and "User" indicates user account.
	Logs out from the current login session.
	Full Up Panel/Full Down Panel.

Configuring the Camera's Setting

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

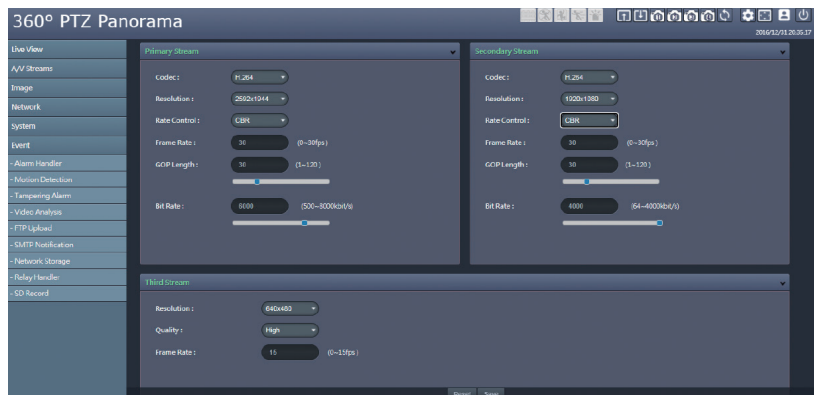


Setup

Setup

Browsing Through the Configuration Menu

The layout of the configuration menu is divided into two sections. All the camera settings are located on the left hand side of the interface; clicking on each of them will open their corresponding sub-menu on the right.



The following are the camera settings available on the left hand side:

- A/V Streams
 - Video Configuration
 - Audio Configuration
- Image
 - Exposure
 - Basic Settings
 - PTZ
 - ROI
 - Privacy Zone
 - OSD
- Network
 - Basic
 - FTP
 - SSL
 - 802.1x
 - SNMP
 - Firewall
 - LDAP
 - DDNS
 - RTSP
- System
 - Date/Time
 - Maintenance
 - User Management
- Event
 - Alarm Handler
 - Motion Detection
 - Tampering Alarm
 - Video Analysis
 - FTP Upload
 - SMTP Notification
 - Network Storage
 - Relay Handler
 - SD Record

Video - Video Configuration



Primary Stream 1

Codec

Configures the format of the video stream, the options are **H.265** and **H.264**.

Resolution

Configures the resolution of the video stream. The available options are camera dependent: **8 MP**: 1920x1080, 1280x960, 1280x720, 960x540, 800x600 and 640x480; **20MP**: 2592x1944, 2560x1440, 2304x1296, 2048x1536, 1920x1080, 1600x1200, 1296x972, 1280x960, 1280x720, 800x600 and 640x480; **32 MP**: 3840x2160, 2860x2160, 2592x1944, 2560x1440, 2304x1296, 2048x1536, 1920x1080, 1280x960, 1280x720, 800x600 and 640x480.

Rate Control

Configures the Rate Control mode as **CBR** (constant bit rate) or **CVBR** (constrained variable bit rate) for the stream. Selecting **CVBR** will show the setting options for **Smart ROI** and **Smart GOP**.

Smart ROI

Enables or disables Smart ROI feature. 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.

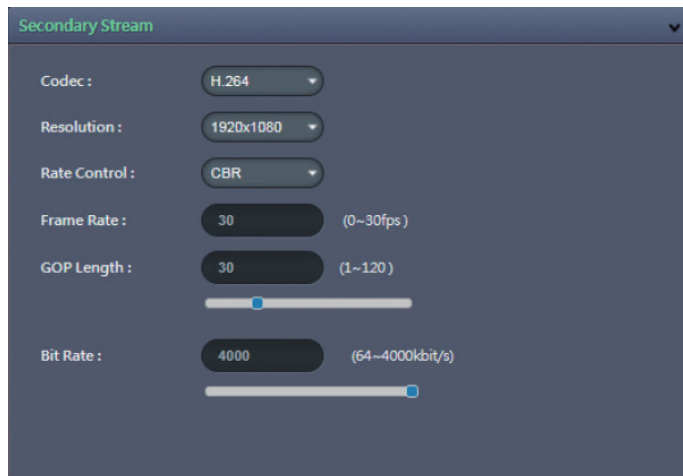
Frame Rate

Adjusts the frame rate of the video stream; the range is 1~30FPS. The stream will be off if **0** is selected.

GOP Length

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

Video Configuration Cont.



Smart GOP

Enables or disables Smart GOP feature. Enabling it will allow GOP to automatically increase when no moving objects are detected to save bandwidth. When moving objects are detected, GOP will automatically decrease.

Bit Rate

Configures the bit rate; the range is 500~8000. Users can enter the value or adjust it through the slider bar.

Secondary Stream

Codec

Configures the format of the video stream, the options are **H.265** and **H.264**.

Resolution

Configures the resolution of the video stream. The available options are **1920x1080**, **1600x1200**, **1296x972**, **1280x960**, **1280x720**, **800x600** and **640x480**.

Rate Control

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

Frame Rate

Adjusts the frame rate of the video stream; the range is 0~30FPS. The stream will be off if **0** is selected.

GOP Length

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

Bit Rate

Configures the bit rate, the range is 64~4000. User can enter the value or adjust it through the slider bar.

Video Configuration Cont.



Third Stream

Resolution : 640x480

Quality : High

Frame Rate : 15 (0~15fps)

Third Stream

Resolution

Configures the resolution of the video stream. The available option is **640x480**.

Quality

Configures the video quality of the stream. The options are **High**, **Medium** and **Low**.

Frame Rate

Adjusts the frame rate of the video stream; the range is 0~15FPS. The stream will be off if **0** is selected.

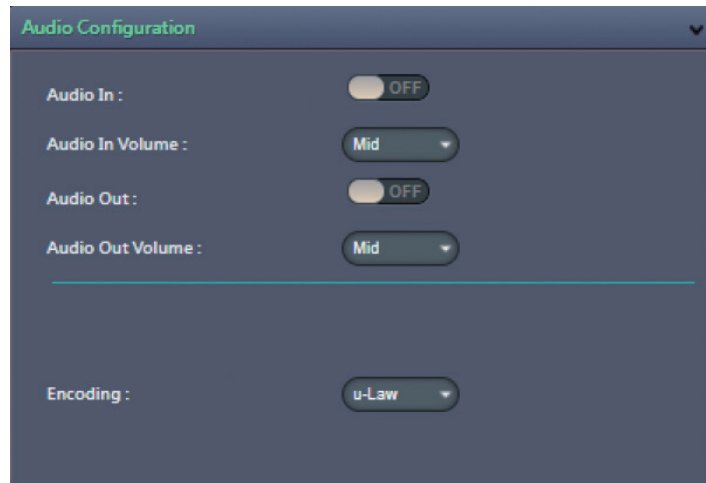
Save

Save button to apply the configurations; click on this button once and all the settings are confirmed for the new changes to take effect.

Reset

Reset button to discard all the settings and revert to the previous settings.

A/V Streams - Audio Configuration



Audio Settings

Audio In

Enables or disables audio-in on the camera. The available options are **ON** and **OFF**.

Audio In Volume

Volume adjustment for audio-in of the camera. The available options are **High**, **Mid** and **Low**.

Audio Out

Enables or disables audio-out on the camera. The available options are **ON** and **OFF**.

Audio Out Volume

Volume adjustment for audio-out of the camera. The available options are **High**, **Mid** and **Low**.

Encoding

Configures the audio companding algorithm. The available options are **u-Law** and **a-law**.

Save

Save button to apply the configurations; click on this button once and all the settings are confirmed for the new changes to take effect.

Reset

Reset button to discard all the settings and revert to the previous settings.

Image - Exposure



Global Mode

The available options are **ON** and **OFF**.

Enable Global Mode (ON)

Set up the parameters for 4 image channels together. After enabling **Global ON**, also select "**Sync Brightness**" from the **AE Mode**. Then the parameters of all the 4 image channels will be the same and can be adjusted together. Press **Save** to keep the configurations.

Disable Global Mode (OFF)

Set up the parameters for each image channel independently. Each image channel can be adjusted individually. After setting up the parameters, press **Save** to keep the configurations.

Exposure Cont.



AE Mode

When **Global Mode** is set to **ON**, the available options for AE mode are **Sync Brightness**, **Sync Brightness 50Hz**, **Sync Brightness 60Hz**, **Auto**, **50Hz**, **60Hz** and **Lock**.

When **Global Mode** is set to **OFF**, the the available options for AE mode are **Auto**, **50Hz**, **60Hz** and **Lock**.

If **Lock** is selected, then Exposure Time Control, Gain Control and BLC cannot be edited. Only Exposure Time can be edited (the range is 1/7~1/20000).

Adjustment

Adjusts the exposure from 0~255. Users can enter the value or adjust it through the slider bar.

Exposure Time Control

Select **User Define** to enter the values of Maximum Exposure Time (the range is 1/7~1/30) and Minimum Exposure Time (the range is 1/30~1/20000) manually.

Exposure Time

The range is 1/7~1/20000. It can only be edited when **Lock** is selected as the AE Mode.

Gain Control

The available options are **OFF**, **Low**, **Medium**, **High** and **User Define**.

Select **User Define** to enter the value of Maximum Gain (the range is 1~512) manually.

Gain

The range is 1~512. It can only be edited when **Lock** is selected as the AE Mode.

Exposure Cont.



BLC

Enables or disables backlight compensation function; enable this option if an image in the camera is too dark.

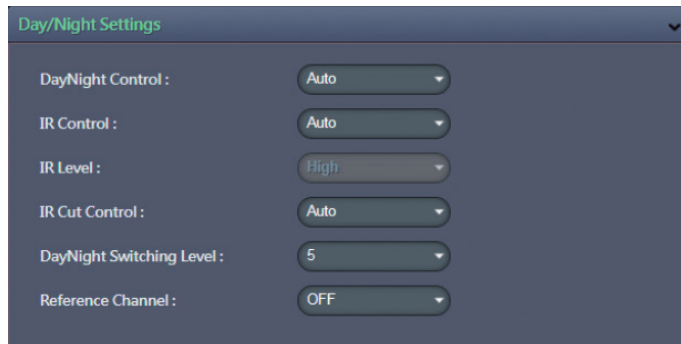
WDR

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**.

AWB Mode (Auto White Balance Mode)

White balance allows the camera to produce more accurate colors under different lighting conditions. The default setting is **Auto**, **Ref. OFF** means each channel individually and automatically adjusts the white balance to suit the current lighting condition. The other available options are **1**, **2**, **3** and **4**. White balance can also be set manually through RG Gain or BG Gain; the range is 0.00-10.00.

Exposure Cont.



Day/Night Settings

DayNight Control

Select the Day and Night control mode. The available options are **Auto**, **Force Day** and **Force Night**.

IR Control

Select the IR Control mode to use. The available options are **Auto**, **OFF** and **ON**.

IR Level

When IR Control is set to **ON**, the available options are **Low**, **Medium** and **High**.

IR Cut Control

Select the IR Cut Control mode to use. The available options are **Auto**, **Force Day** and **Force Night**.

DayNight Switching Level

Select the desired level to sense and switch between day and night mode; the range is 1~10.

Reference Channel

OFF means each channel individually and automatically adjusts the DayNight setting. The other available options are **1**, **2**, **3** and **4**.

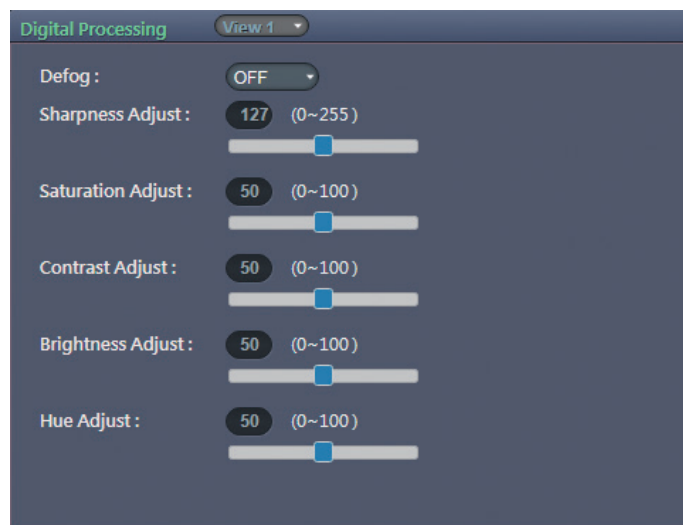
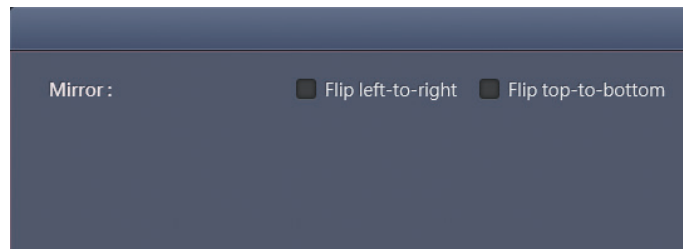
Save

Save button to apply the configurations; click on this button once and all the settings are confirmed for the new changes to take effect.

Reset

Reset button to discard all the settings and revert to the previous settings.

Image - Basic Settings



Mirror

Flip left-to-right & Flip top-to-bottom

Flips the image horizontally (flip left-to-right) or vertically (flip top-to-bottom). They can be selected at the same time.

Digital Processing

Defog

Configures the defog level to enhance the image quality in foggy conditions. The available options are **OFF**, **Low**, **Medium** and **High**.

Sharpness Adjust

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

Saturation Adjust

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

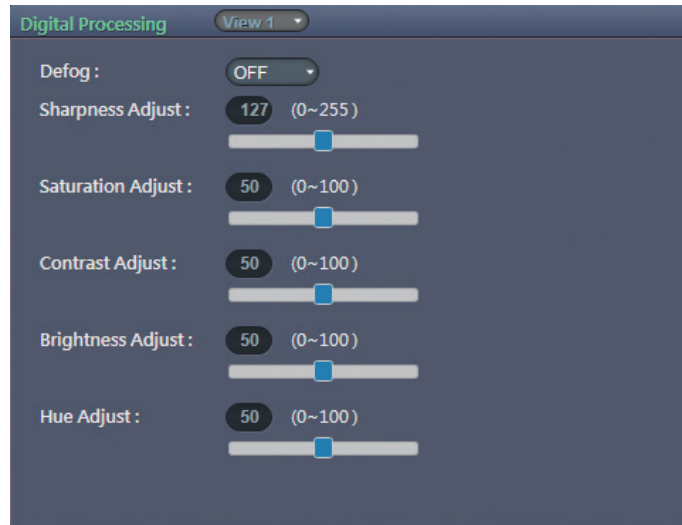
Contrast Adjust

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

Brightness Adjust

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

Basic Settings Cont.



Hue Adjust

Configures the overall hue of the image; the range is 0 ~ 100. 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.

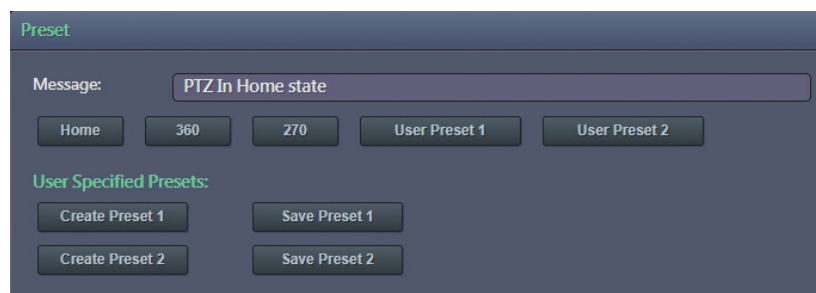
Restore Settings to Defaults

Discards all the settings applied to the image and resets to the default settings.

Restore All Image Settings

Discards all the settings applied to the image and reverts to the previous settings.

Image - PTZ



PTZ

Allows users to adjust the Focus/Pan/Tilt/Zoom positions for each individual module or for all four modules. The available options are **View1**, **View2**, **View3**, **View4** and **All**. After adjusting zoom, either full or short range focus is selected.

Full Range/Short Range: Short Range is applied when the camera focus appears to be a little blurry; the focusing time is shorter. Full Range function is applied when camera doesn't focus on a clear image and is focusing for the full focal length; the focusing time is longer.

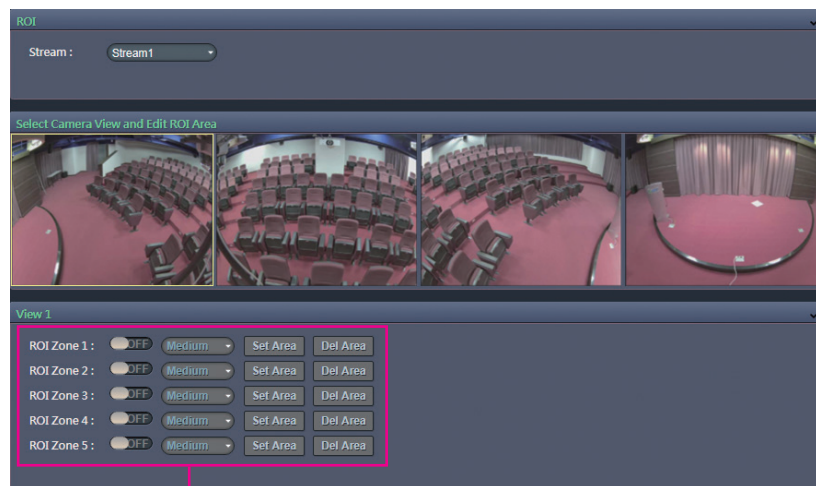
Preset

The available options for the preset buttons are **Home**, **360**, **270**, **User Preset 1** and **User Preset 2**.

User Specified Presets: Users can set up custom preset configurations. The available options are **Create Preset 1**, **Save Preset 1**, **Create Preset 2** and **Save Preset 2**.

Note that this is not a traditional PTZ. In order to create a precise preset position, the must first select Create Preset. The modules will go back to the Home position. (Home is for calibration purposes only. This will index all the camera modules to module 4 into a position where they are all directly adjacent to each other.) Then move each module to adjust tilt and zoom to achieve desired field of view for the preset. Then select Save Preset.

Image - ROI

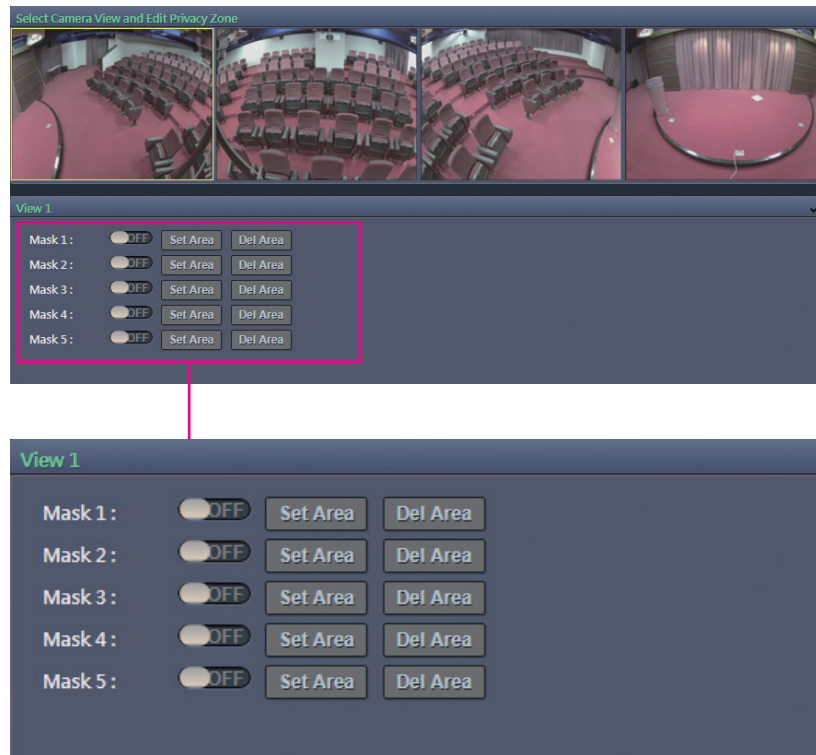


Configurations

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. 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). Switch to **ON** to enable ROI function. The default is **OFF**.
3. Set the image quality of the ROI in the **Level** drop-down menu; the options are **Low**, **Medium** or **High**.
4. Select the area to set the ROI by holding down the mouse button and drag to make a rectangular square; release the button once the desired area is covered.
5. Press the **Set Area** button for the setting to take effect. The ROI area will then be seen on the video stream.
6. Press the **Del Area** button or select **OFF** to delete the ROI area.

Image - Privacy Zone

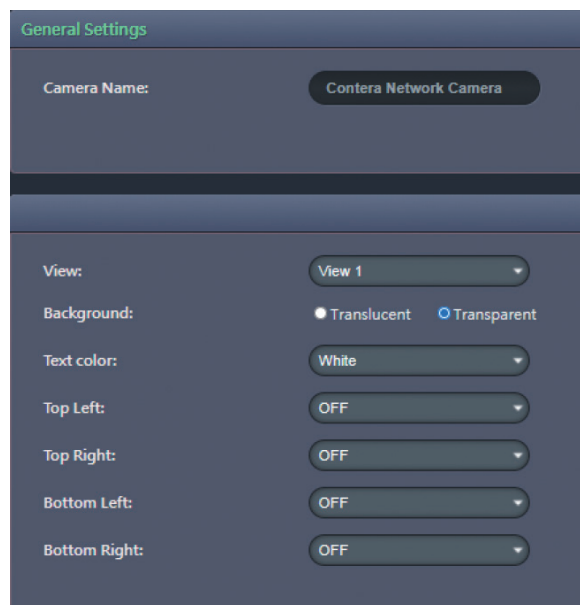
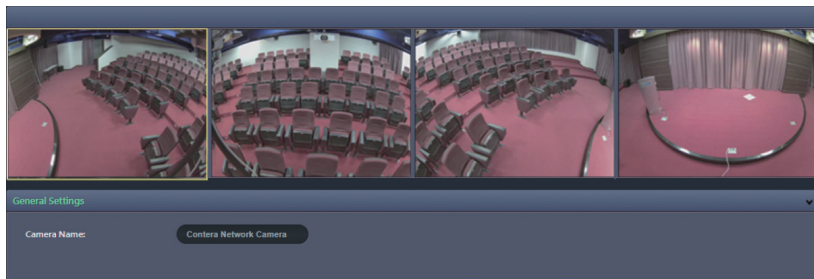


Configurations

Configures which area of the video stream will be masked for privacy. There are 5 privacy zones that can be configured.

1. Select **ON** to enable **Privacy Zone** function. The default is **OFF**. Each channel can be edited individually.
2. Select the area to set the privacy zone by holding down the mouse button and drag to make a rectangular square; release the button once the desired area is covered.
3. Press the **Set Area** button for the setting to take effect. The masked area will be filled with black and the label **Mask** will be seen on the video stream.
4. Press the **Del Area** button or select **OFF** to delete the privacy zone.

Image - OSD



General Settings

Camera Name

Specifies a name for the device. The maximum length is 32 characters.

Background

Configures the background color of the text overlay; the options are **Translucent** (light gray) or **Transparent**.

Text Color

Configures the text color as **Black**, **White**, **Green** or **Yellow**.

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 camera name, current date/time and text overlay.

Content

OFF: The default setting is OFF.

Date/Time: Displays the current date/time.

Camera Name: Displays the device name.

Camera Name + Date/Time: Displays the device name and date/time.

Custom Text: A customized text can be specified here.

Save

Save button to apply the configurations; click on this button once and all the settings are confirmed for the new changes to take effect.

Reset

Reset button to discard all the settings and revert to the previous settings.

Network - Basic



IPv4 Settings

DHCP

Enables or disables 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, primary and secondary DNS server address.

System Settings

HTTP Port

Configures the HTTP port number of the web configuration menu.

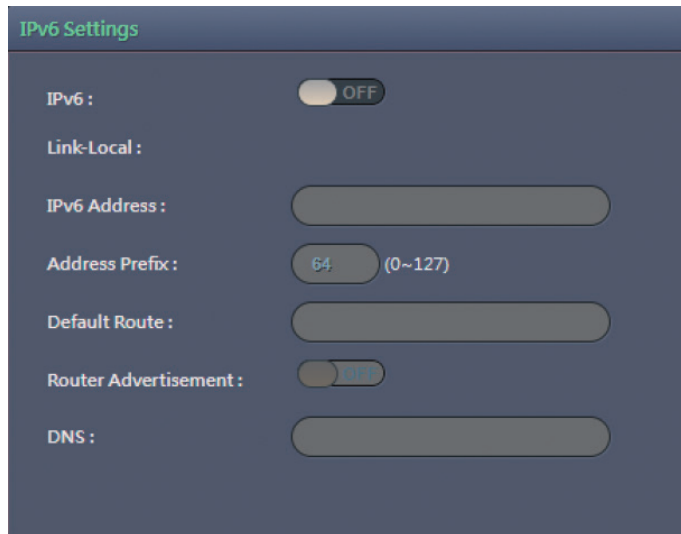
HTTPS Port

Configures the HTTPS port number of the web configuration menu.

Hardware Address

Unique MAC address for each camera device.

Network - Basic



IPv6 Settings

IPv6 : ☐ OFF

Link-Local : ☐

IPv6 Address :

Address Prefix : (0~127)

Default Route :

Router Advertisement : ☐ OFF

DNS :

IPv6 Settings

Enables or disables IPv6 function.

To manually input an IP address, enable IPv6 and input the address prefix, default route, enable/disable router advertisement and DNS server address.

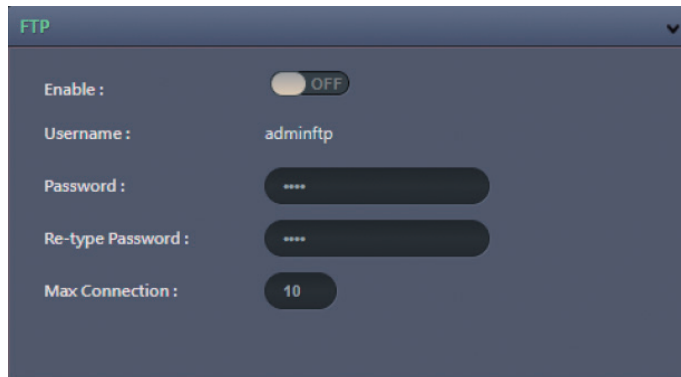
Save

Save button to apply the configuration; click on this button once and all the settings are confirmed for the new changes to take effect.

Reset

Reset button to discard all the settings and revert to the previous settings.

Network - FTP



Configurations

Enable

Enables or disables FTP access to this camera. This function is only available when an SD card is inserted. You can access files in the SD card attached to the IP camera.

Password

Specifies the FTP login password to access the IP camera.

Max Connection

Specifies the maximum number of FTP connections the IP camera can support.

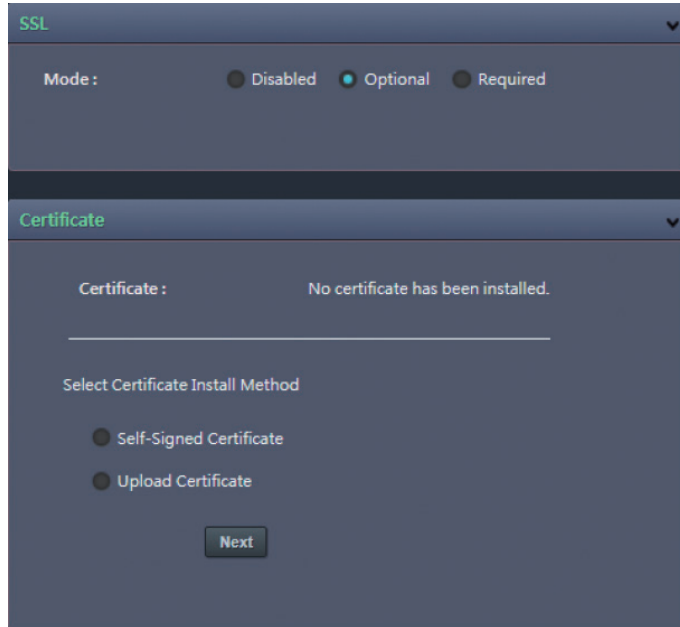
Save

Save button to apply the configurations; click on this button once and all the settings are confirmed for the new changes to take effect.

Reset

Reset button to discard all the settings and revert to the previous settings.

Network - SSL



SSL

Mode : ☐ Disabled ☒ Optional ☐ Required

Certificate

Certificate : No certificate has been installed.

Select Certificate Install Method

☐ Self-Signed Certificate

☐ Upload Certificate

Next

SSL Configurations

Mode

Disabled: Support for http only.

Optional: Support for http & https.

Required: Support for https only.

Certificate

Certificate

Provides options to install a new CA certification.

Select Certificate Install Method

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

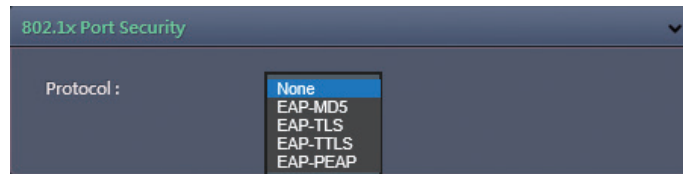
Save

Save button to apply the configurations; click on this button once and all the settings are confirmed for the new changes to take effect.

Reset

Reset button to discard all the settings and revert to the previous settings.

Network - 802.1x



802.1x Configurations

Protocol

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

Select the protocols to enable 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.

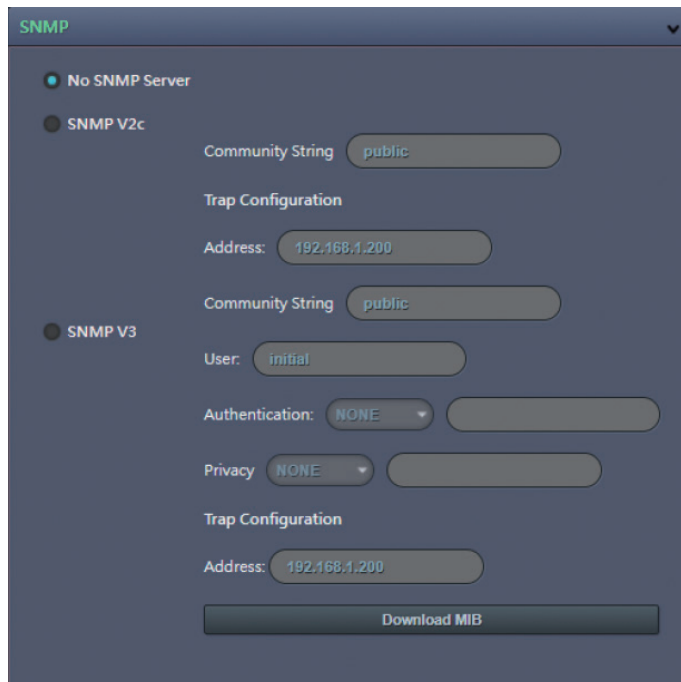
Save

Save button to apply the configurations; click on this button once and all the settings are confirmed for the new changes to take effect.

Reset

Reset button to discard all the settings and revert to the previous settings.

Network - SNMP



The image shows a web-based configuration interface for SNMP. It has a title bar 'SNMP' with a dropdown arrow. Below it are three radio buttons: 'No SNMP Server' (selected), 'SNMP V2c', and 'SNMP V3'. Under 'SNMP V2c', there is a 'Community String' field with the value 'public' and a 'Trap Configuration' section with an 'Address' field containing '192.168.1.200'. Under 'SNMP V3', there is a 'Community String' field with 'public', a 'User' field with 'initial', 'Authentication' and 'Privacy' dropdown menus both set to 'NONE' with adjacent text input fields, and another 'Trap Configuration' section with an 'Address' field containing '192.168.1.200'. At the bottom is a 'Download MIB' button.

SNMP Configurations

No SNMP Server

Disables SNMP function.

SNMP V2c

Enables or disables SNMPv2c support.

Community String

Configures the community string.

Trap Configuration

Specifies the destination IP address to send SNMP trap messages.

SNMP V3

Enables or disables SNMPv3 support.

User

Configures the SNMPv3 username.

Authentication

Configures the Authentication mode. The options are **None**, **MD5** and **SHA**.

Privacy

Configures encryption for SNMPv3. The options are **DES** and **AES**.

Trap Configuration

Specifies the destination IP address to send SNMP trap messages.

Download MIB

Download MIB file for SNMP.

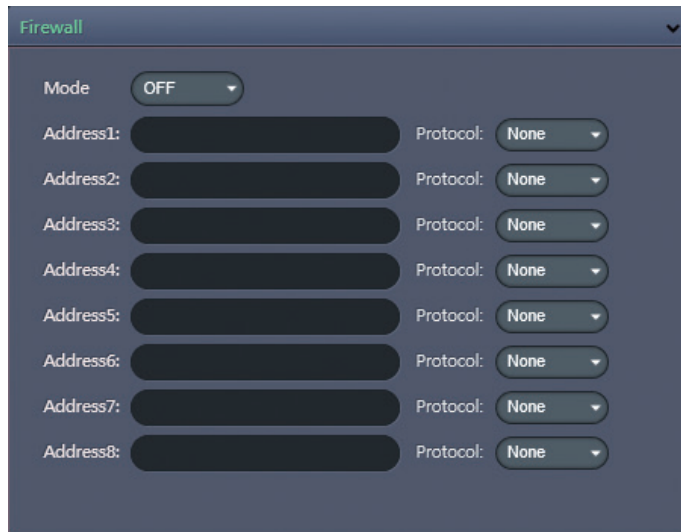
Save

Save button to apply the configurations; click on this button once and all the settings are confirmed for the new changes to take effect.

Reset

Reset button to discard all the settings and revert to the previous settings.

Network - Firewall



Firewall Configurations

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.

Address1 to Address8

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

Save

Save button to apply the configurations; click on this button once and all the settings are confirmed for the new changes to take effect.

Reset

Reset button to discard all the settings and revert to the previous settings.

Network - LDAP



The image shows a software interface for LDAP configuration. It has a title bar 'LDAP' with a dropdown arrow. Below are several settings, each with a label and a control field:

Label	Value
Enable :	<input type="checkbox"/> OFF
Server :	[Empty text field]
Port :	389
Base dn :	dc=ipcamera,dc=com
Bind dn template :	cn=%u,ou=people,dc=ipcamera,dc=com
Search dn template :	cn=%u
Administrator :	cn=admin,ou=groups,dc=ipcamera,dc=com
Operator :	cn=operator,ou=groups,dc=ipcamera,dc=com
Viewer :	cn=user,ou=groups,dc=ipcamera,dc=com

LDAP Configurations

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

After enabling LDAP, manually configure the LDAP server and other required information.

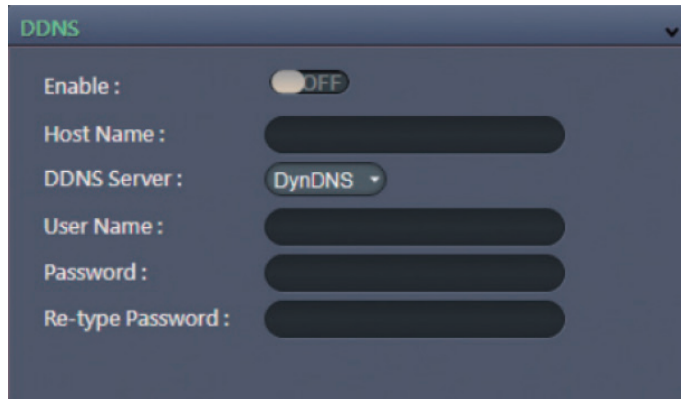
Save

Save button to apply the configurations; click on this button once and all the settings are confirmed for the new changes to take effect.

Reset

Reset button to discard all the settings and revert to the previous settings.

Network - DDNS



DDNS Configurations

Enable

Enables or disables DDNS service.

Hostname

Hostname of the DDNS account.

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**.

Username

Username of the DDNS account.

Password

Password of the DDNS account.

Re-type Password

Type the same password again for confirmation.

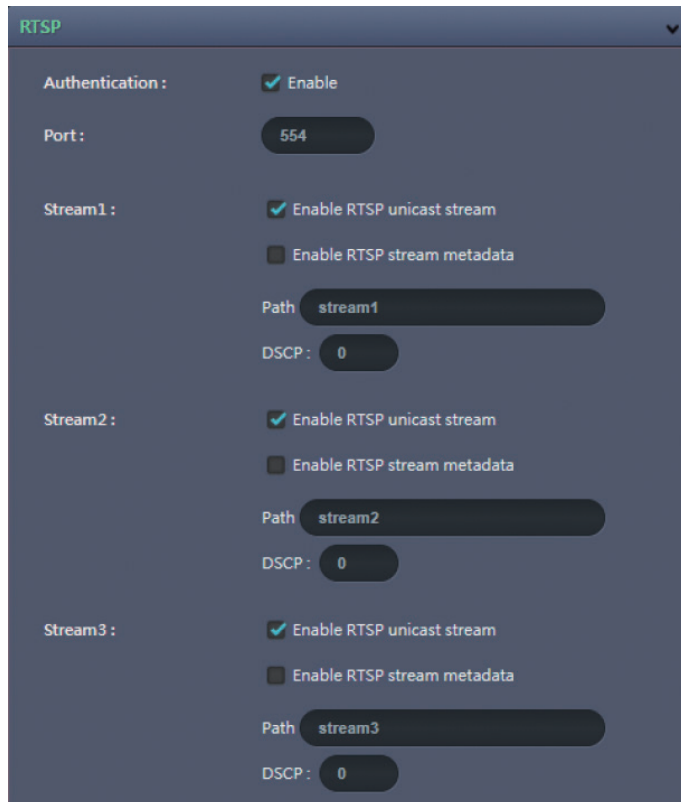
Save

Save button to apply the configurations; click on this button once and all the settings are confirmed for the new changes to take effect.

Reset

Reset button to discard all the settings and revert to the previous settings.

Network - RTSP



The screenshot shows the RTSP configuration window with a dark blue header and a light blue body. The window is titled 'RTSP' in green. It contains three sections for configuration: Authentication, Stream1, Stream2, and Stream3. Each section has a 'Path' field and a 'DSCP' field. The 'Authentication' section has a checked 'Enable' checkbox. The 'Stream1' section has checked 'Enable RTSP unicast stream' and 'Enable RTSP stream metadata' checkboxes, a 'Path' field with 'stream1', and a 'DSCP' field with '0'. The 'Stream2' section has checked 'Enable RTSP unicast stream' and 'Enable RTSP stream metadata' checkboxes, a 'Path' field with 'stream2', and a 'DSCP' field with '0'. The 'Stream3' section has checked 'Enable RTSP unicast stream' and 'Enable RTSP stream metadata' checkboxes, a 'Path' field with 'stream3', and a 'DSCP' field with '0'.

RTSP

Authentication : ☒ Enable

Port : 554

Stream1 : ☒ Enable RTSP unicast stream
☒ Enable RTSP stream metadata
Path stream1
DSCP : 0

Stream2 : ☒ Enable RTSP unicast stream
☒ Enable RTSP stream metadata
Path stream2
DSCP : 0

Stream3 : ☒ Enable RTSP unicast stream
☒ Enable RTSP stream metadata
Path stream3
DSCP : 0

RTSP Configurations

Authentication

Enables or disables verification of the account and password.

Port

Configures the port number for stream 1 to stream 3. The range is 554/1025~65535.

Stream 1 to Stream 3

Enables or disables RTSP unicast for stream 1 to stream 3. The RTSP port number and pathname for each stream can be configured here.

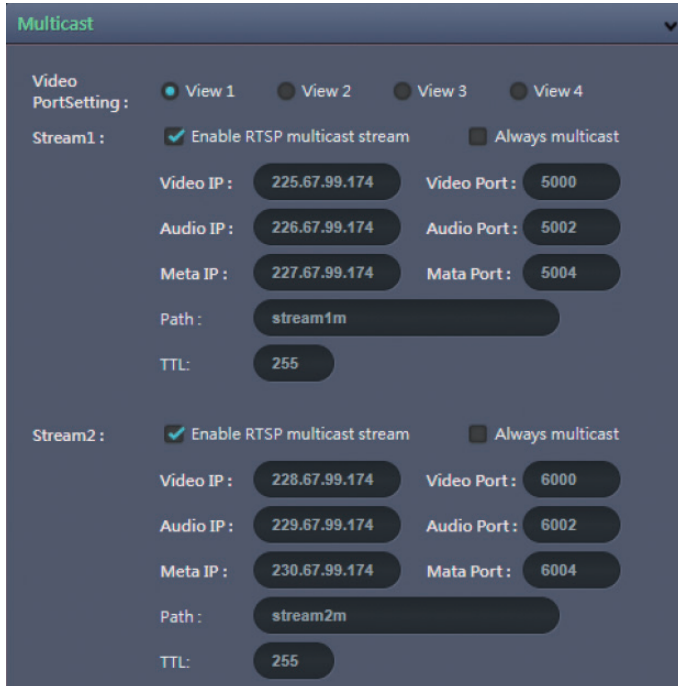
Default URL Path of Stream 1 to Stream 3

Stream 1: rtsp://cameralP/stream1

Stream 2: rtsp://cameralP/stream2

Stream 3: rtsp://cameralP/stream3

RTSP Cont.



Multicast

Video PortSetting : ☒ View 1 ☐ View 2 ☐ View 3 ☐ View 4

Stream1 : ☒ Enable RTSP multicast stream ☐ Always multicast

Video IP : 225.67.99.174 Video Port : 5000

Audio IP : 226.67.99.174 Audio Port : 5002

Meta IP : 227.67.99.174 Meta Port : 5004

Path : stream1m

TTL : 255

Stream2 : ☒ Enable RTSP multicast stream ☐ Always multicast

Video IP : 228.67.99.174 Video Port : 6000

Audio IP : 229.67.99.174 Audio Port : 6002

Meta IP : 230.67.99.174 Meta Port : 6004

Path : stream2m

TTL : 255

Multicast (Stream 1 to Stream 3)

Enable RTSP Multicast

Enables or disables RTSP multicast streaming.

Always Multicast

Check this option to enable the video stream to start multicast streaming without using RTCP.

Video IP

Configures the multicast address to stream video.

Video Port

Configures the port number of the video stream.

Audio IP

Configures the multicast address to stream audio.

Audio Port

Configures the port number of the audio stream.

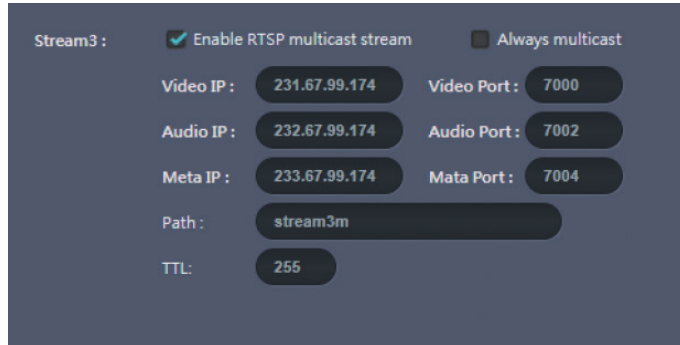
Meta IP

Configures the multicast address for the html meta.

Meta Port

Configures the port number of the html meta.

RTSP Cont.



The screenshot shows the RTSP configuration for Stream3. It includes two checkboxes: 'Enable RTSP multicast stream' (checked) and 'Always multicast' (unchecked). Below these are input fields for Video IP (231.67.99.174), Video Port (7000), Audio IP (232.67.99.174), Audio Port (7002), Meta IP (233.67.99.174), and Meta Port (7004). There is also a text field for Path (stream3m) and a dropdown for TTL (255).

Stream3 :	<input checked="" type="checkbox"/> Enable RTSP multicast stream	<input type="checkbox"/> Always multicast
Video IP :	231.67.99.174	Video Port : 7000
Audio IP :	232.67.99.174	Audio Port : 7002
Meta IP :	233.67.99.174	Mata Port : 7004
Path :	stream3m	
TTL:	255	

Path

Configures the URL address of the video stream.

TTL

Configures the time-to-live threshold of the multicast datagram before it is discarded by the router.

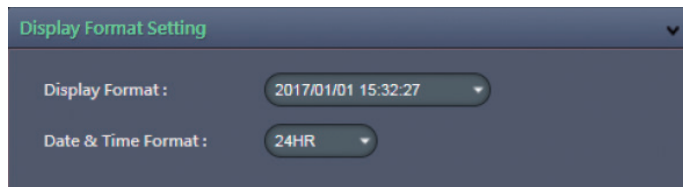
Save

Save button to apply the configurations; click on this button once and all the settings are confirmed for the new changes to take effect.

Reset

Reset button to discard all the settings and revert to the previous settings.

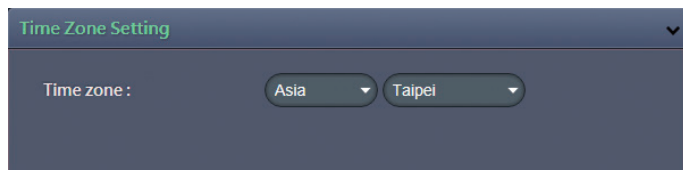
System - Date/Time



Display Format Setting

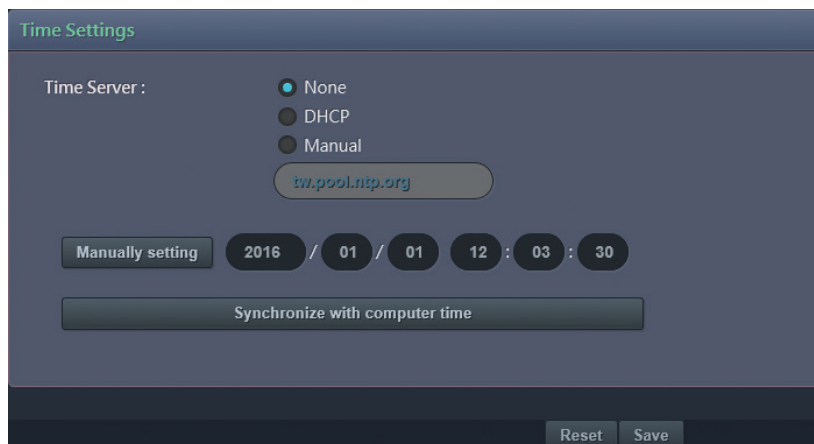
Display Format : 2017/01/01 15:32:27

Date & Time Format : 24HR



Time Zone Setting

Time zone : Asia Taipei



Time Settings

Time Server : ☒ None ☐ DHCP ☐ Manual

tw.pool.ntp.org

Manually setting 2016 / 01 / 01 12 : 03 : 30

Synchronize with computer time

Reset Save

Date/Time Configurations

Display Format

Displays the current date and time. There are various formats to select from the drop-down menu.

Date & Time Format

Select the display format of the date and time. The available options are **24HR** and **12HR**.

Time Zone Setting

Time Zone

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

Time Setting

Time Server

None: Disables synchronization of the current date/time through the internet.

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

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

Manually setting

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

Sync with computer time

Manually synchronize with the current computer date and time.

Save

Save button to apply the configurations; click on this button once and all the settings are confirmed for the new changes to take effect.

Reset

Reset button to discard all the settings and revert to the previous settings.

System - Maintenance

System Information

Firmware Version :

cam59A_01.00.0030

MCU Version :

F00A

Model Name :

NCp-521B

Serial Number :

TSCA91003766

Mac Address :

00:10:F3:43:63:AE

Firmware Update

Choose a bin file to upgrade camera.

File Name :

Choose a 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

System Information

Firmware Version & Model Name

Displays the current firmware version and IP camera model number.

Serial Number & MAC Address

Displays the IP camera serial number and MAC address.

Firmware Update

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



During update, please do not disconnect the network cable, reset or power off the IP camera, as you 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).

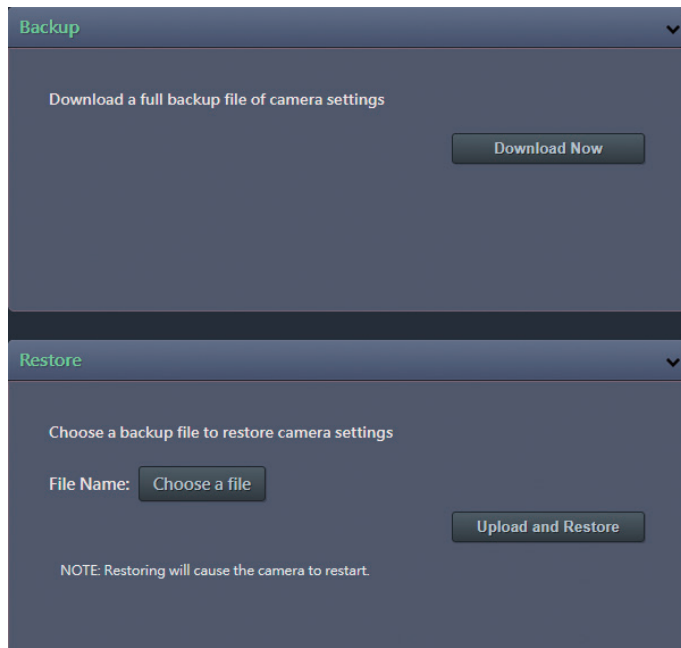
Reset to Factory Default

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

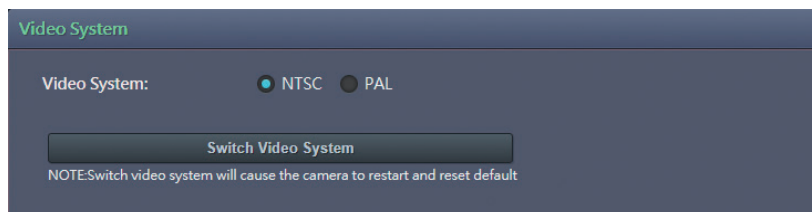
Download Log File

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

Maintenance Cont.



The screenshot shows a software interface with two main sections: 'Backup' and 'Restore'. The 'Backup' section has a title bar with a dropdown arrow and contains the text 'Download a full backup file of camera settings' and a 'Download Now' button. The 'Restore' section also has a title bar with a dropdown arrow and contains the text 'Choose a backup file to restore camera settings'. Below this text is a 'File Name:' label followed by a 'Choose a file' button. To the right of this is an 'Upload and Restore' button. At the bottom of the 'Restore' section, there is a note: 'NOTE: Restoring will cause the camera to restart.'



The screenshot shows a 'Video System' settings panel. It features a title bar with the text 'Video System'. Below the title bar, there is a 'Video System:' label followed by two radio buttons: 'NTSC' (which is selected) and 'PAL'. Below the radio buttons is a 'Switch Video System' button. At the bottom of the panel, there is a note: 'NOTE: Switch video system will cause the camera to restart and reset default.'

Backup

Download Now

Downloads the current camera settings to a backup file.

Restore

Update and Restore

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

Video System

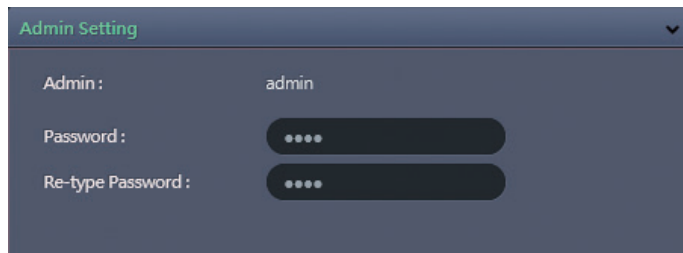
Switch Video System

Select the desired video system type.

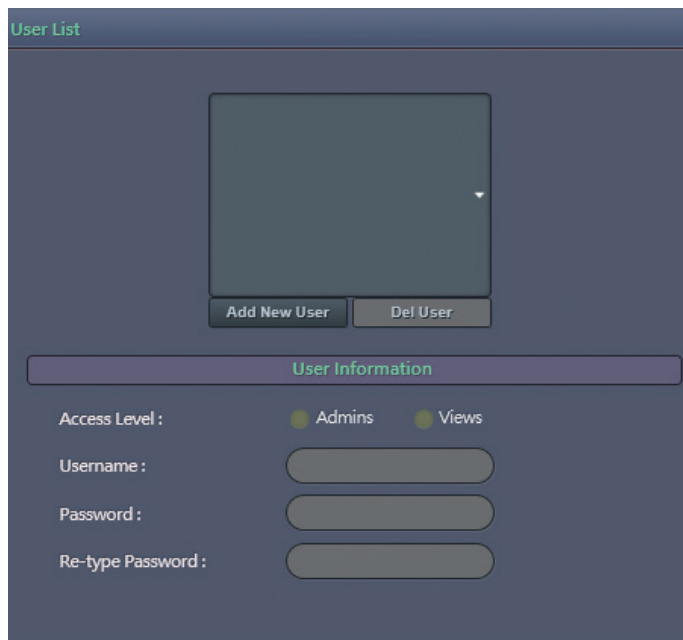


Note: Switching the video system type will cause the camera to restart and reset to default.

System - User Management



The Admin Setting screen has a title bar with the text "Admin Setting" and a dropdown arrow. Below the title bar, there are three labels and input fields: "Admin :" with the text "admin", "Password :" with a masked input field (four dots), and "Re-type Password :" with a masked input field (four dots).



The User List screen has a title bar with the text "User List". Below the title bar, there is a large rectangular area with a dark background and a small white arrow pointing to the right. Below this area are two buttons: "Add New User" and "Del User". Below the buttons is a section titled "User Information" with a light blue background. This section contains four labels and input fields: "Access Level :" with two radio buttons labeled "Admins" and "Views", "Username :" with a text input field, "Password :" with a text input field, and "Re-type Password :" with a text input field.

Admin Setting

Admin

The default username is **ADMIN**. Users cannot change it.

Password

Set up the password for administrator's authorization.

Re-type Password

Retype the same password to confirm.

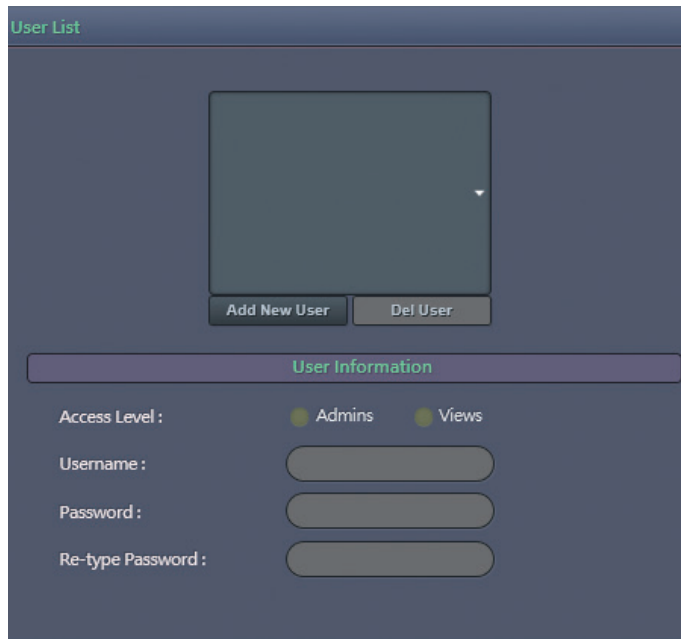
User List

Displays user accounts available on the camera.

Press **Add New User** to add a new account and set up the authorization level of this user under **User Information**. Press **Cancel** to delete the new user if you do not want to continue the setup.

To delete an account, press the **Del User** button.

User Management Cont.



User List

Add New User Del User

User Information

Access Level : ☐ Admins ☐ Views

Username :

Password :

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**.

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).

User Name

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

Password

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

Re-type Password

Retype the same password to confirm.

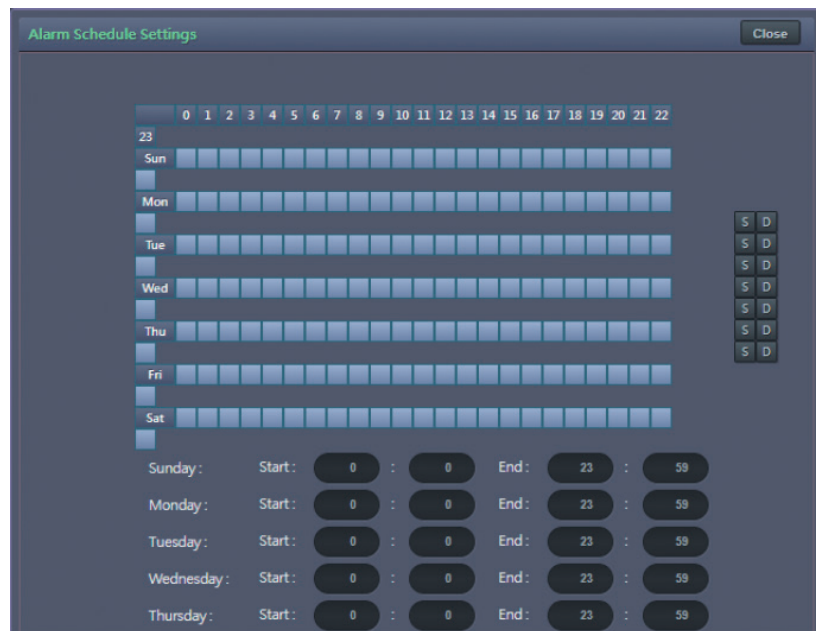
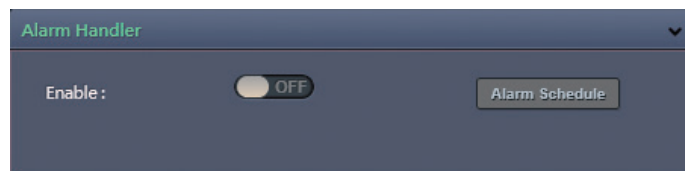
Save

Save button to apply the configurations; click on this button once and all the settings are confirmed for the new changes to take effect.

Reset

Reset button to discard all the settings and revert to the previous settings.

Event - Alarm Handler



Alarm Handler Configurations

Enable

Enables or disables the alarm schedule setup.

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

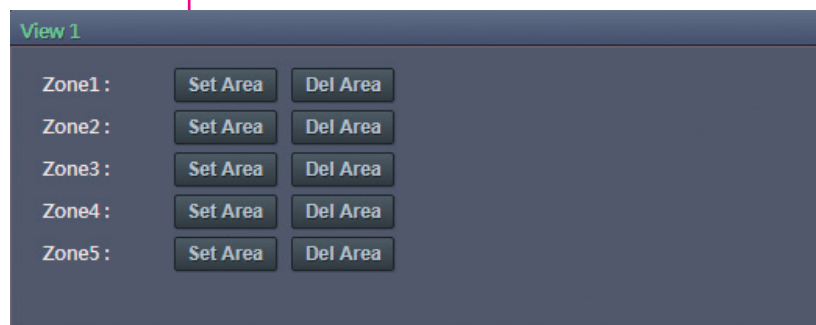
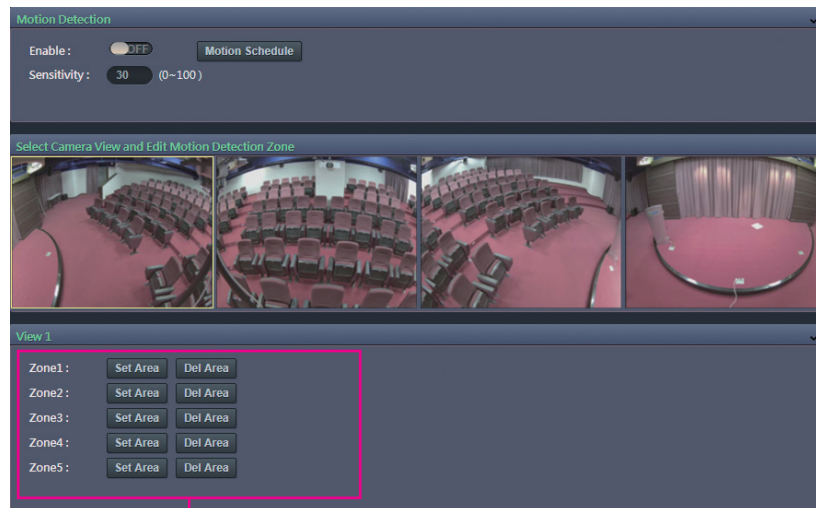
Save

Save button to apply the configurations; click on this button once and all the settings are confirmed for the new changes to take effect.

Close

Press to leave this schedule setting page.

Event - Motion Detection



Motion Configurations

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

Enable

Enables or disables motion detection function.

Sensitivity

Configures the sensitivity of motion detection, the range is 0 to 100.

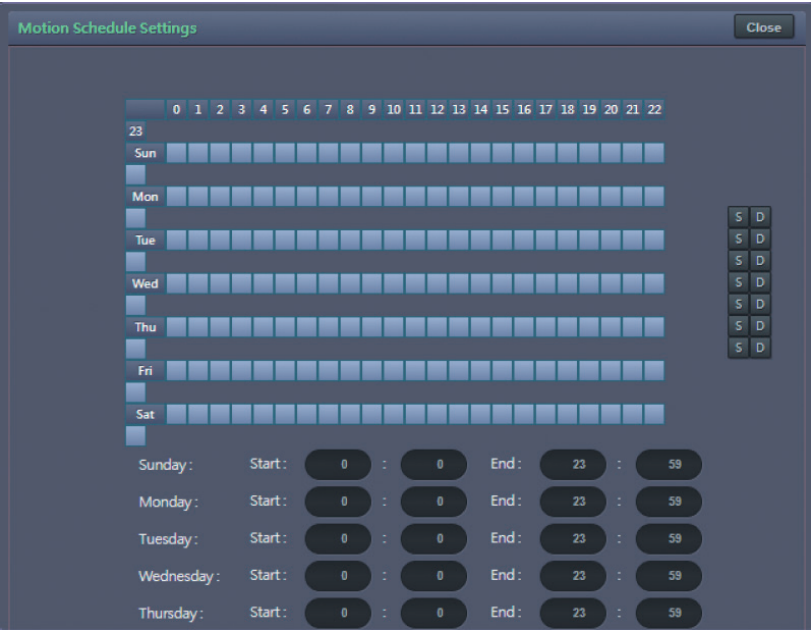
Zone1 to Zone5 Setup

Configures the type of area layout to use for motion detection. You can configure up to 5 zones. The instructions below illustrate how to set up 5 zones. Each channel can be setup individually.

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 rectangular square; 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.
3. Repeat the above steps to create motion areas for zones 2 to 5.

To delete an area, find the motion zone number you would like to remove, and press the **Del Area** button.

Motion Detection Cont.



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

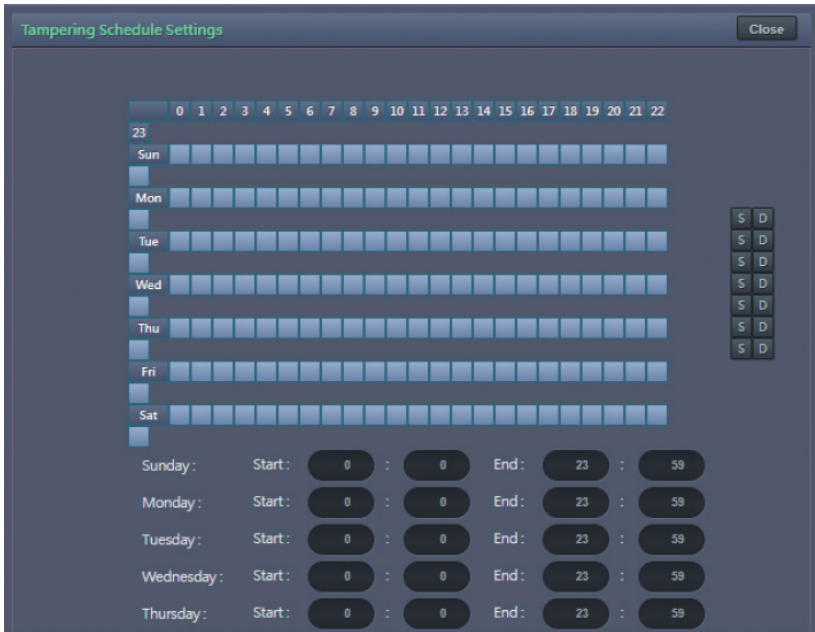
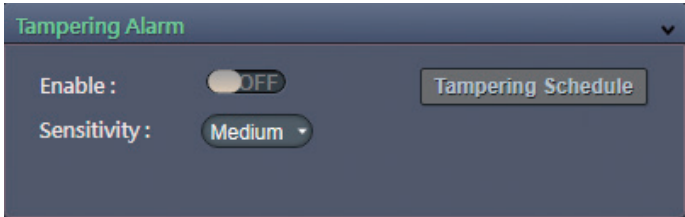
Save

Save button to apply the configurations; click on this button once and all the settings are confirmed for the new changes to take effect.

Close

Press to leave this schedule setting page.

Event - Tampering Alarm



Tampering Alarm Configurations

Enable

Enables or disables the tampering alarm function.

Tampering Sensitivity

Configures the sensitivity level of tampering alarm; the options are **High**, **Medium** and **Low**.

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

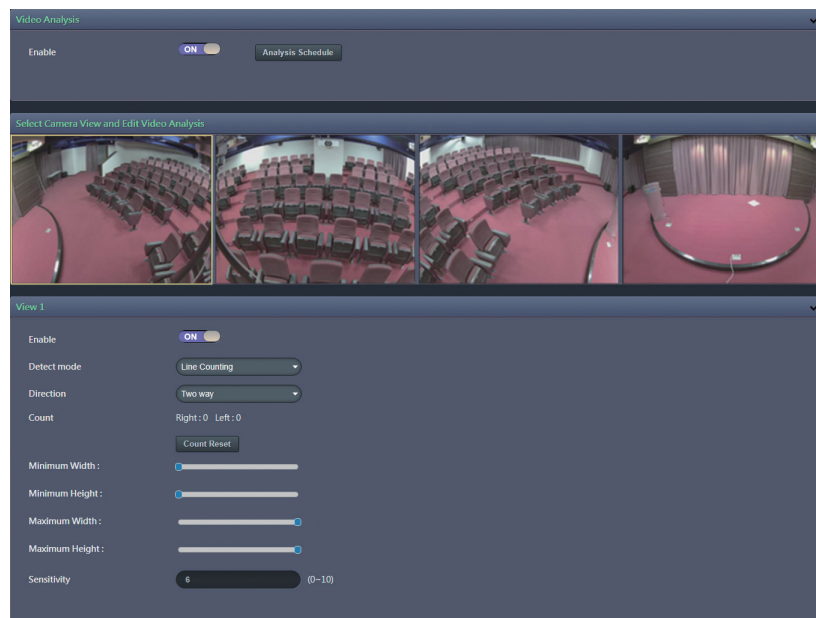
Save

Save button to apply the configurations; click on this button once and all the settings are confirmed for the new changes to take effect.

Close

Press to leave this schedule setting page.

Event - Video Analysis



Video Analysis Configurations

Enable

Enables or disables object detection function.

Detect mode

Configures the methods of object detection; the options are **Line Counting**, **Line Crossing**, **Area Counting** and **Intrusion**.

Line Counting: To create a **Line Counting** area for calculation (no event trigger), on the live video screen, select the area by holding down the mouse button and draw the **Line Counting** lines; release the button once the desired area is covered. Then select the **Two way** or **One way** option (calculation method) from the **Direction** drop-down menu.

Line Crossing: To create a **Line Crossing** area for triggering events, on the live video screen, select the area by holding down the mouse button and draw the **Line Crossing** lines; release the button once the desired area is covered. Then select the **Two way** or **One way** option (trigger method) from the **Direction** drop-down menu. (Note: Object detection function must be enabled in the Network Storage menu to enable event triggers.)

Area Counting: To create an **Area Counting** area for calculation (no event trigger), on the live video screen, select the area by clicking the mouse button to specify the first anchor point; then draw a line to place the second anchor point. Continue to draw lines for the third and fourth anchor points; finish off the selection by clicking the first anchor point. A total of 4 anchor points can be created. Select the **Inside** or **Outside** option (calculation method) from the **Direction** drop-down menu.

Video Analysis Cont.

View 1

Enable ☒

Detect mode Line Counting

Direction Two way

Count Right: 0 Left: 0

Count Reset

Minimum Width :

Minimum Height :

Maximum Width :

Maximum Height :

Sensitivity 6 (0~10)

Intrusion: To create an **Intrusion** area for triggering events, on the live video screen, select the area by clicking the mouse button to specify the first anchor point; then draw a line to place the second anchor point. Continue to draw lines for the third and fourth anchor points; finish off the selection by clicking the first anchor point. A total of 4 anchor points can be created. Select the **Inside** or **Outside** option (trigger method) from the **Direction** drop-down menu. (Note: Object detection function must be enabled in the **Network Storage** menu to enable event triggers.)

Direction

Configures the direction of counting method.

Count

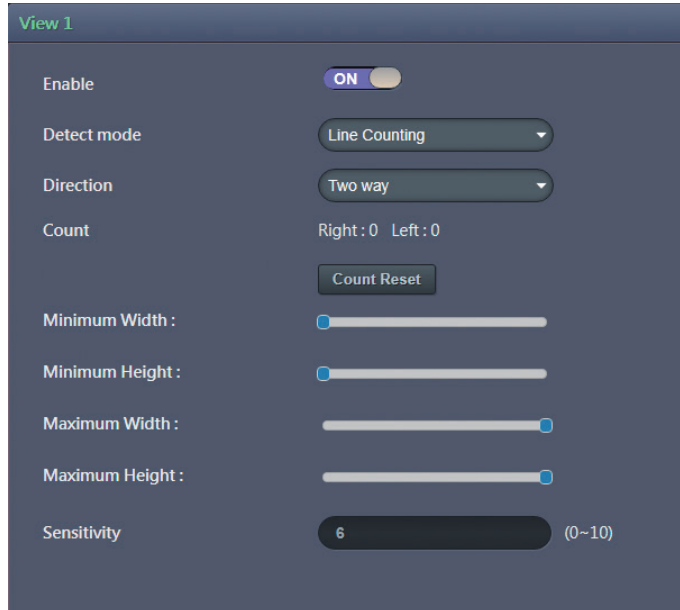
Displays the counting result.

One way for Line Counting: There will be two parallel lines (red and green). Only objects passing the green line first will be calculated and counted. If the green line is on the right, it will be counted as **Right in Count**; if the green line is on the left, it will be counted as **Left in Count**.

Two way for Line Counting: There will be two parallel lines (both green). Only objects passing the green line first will be calculated and counted. If the object passes the right green line first, it will be counted as **Right in Count**; if the object passes the left green line first, it will be counted as **Left in Count**.

Inside for Area Counting: Objects leaving from inside the zone area to the outside will be calculated as **Inside**. Objects entering from outside the zone area to the inside will not be counted as **Inside** or **Outside**.

Video Analysis Cont.



Outside for Area Counting: Objects entering from outside the zone area to the inside will be counted as Outside. Objects leaving from inside the zone area to the outside will not be counted as **Inside** or **Outside**.

Count Reset

Resets all the counting results of Line Counting or Zone Counting to zero.

Setup Detection Area

Enable

Enables or disables the detection area for monitoring objects. When enabled, the minimum and maximum width and height of the detection area can be configured through the slider bars.

Save

Save button to apply the configurations; click on this button once and all the settings are confirmed for the new changes to take effect.

Reset

Reset button to discard all the settings and revert to the previous settings.

Video Analysis Cont.

Analysis Schedule Settings

Close

	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																								
Mon																								
Tue																								
Wed																								
Thu																								
Fri																								
Sat																								

S

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Sunday :

Start :

0

:

0

End :

23

:

59

Monday :

Start :

0

:

0

End :

23

:

59

Tuesday :

Start :

0

:

0

End :

23

:

59

Wednesday :

Start :

0

:

0

End :

23

:

59

Thursday :

Start :

0

:

0

End :

23

:

59

Friday :

Start :

0

:

0

End :

23

:

59

Saturday :

Start :

0

:

0

End :

23

:

59

Save

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

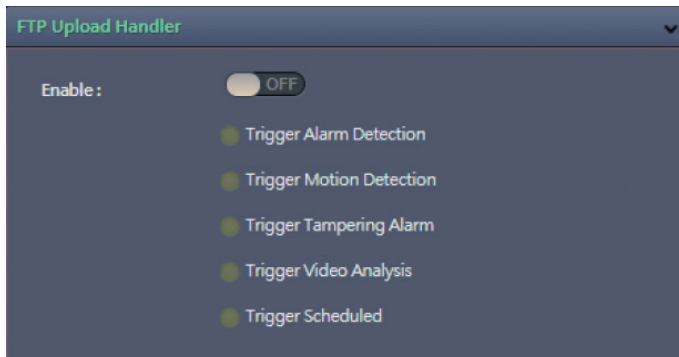
Save

Save button to apply the configurations; click on this button once and all the settings are confirmed for the new changes to take effect.

Close

Press to leave this schedule setting page.

Event - FTP Upload



FTP Upload Handler Configurations

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

- Trigger Alarm Detection
- Trigger Motion Detection
- Trigger Tampering Alarm
- Trigger Video Analysis
- Trigger Scheduled

Remote Server

Host Address

Specifies the host name or IP address of the FTP server.

Port

Specifies the port number of the FTP server.

Username

Specifies the login username for the FTP server.

Password

Specifies the login password for the FTP server.

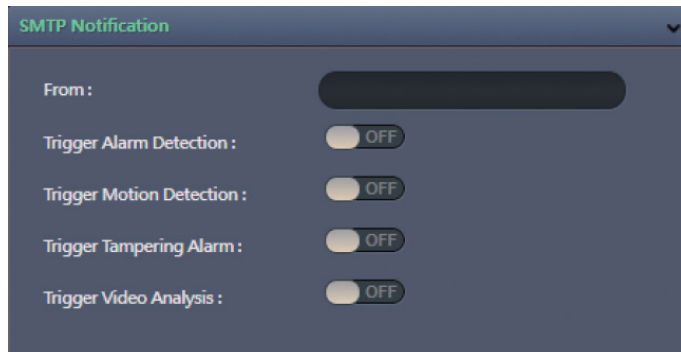
Save

Save button to apply the configurations; click on this button once and all the settings are confirmed for the new changes to take effect.

Reset

Reset button to discard all the settings and revert to the previous settings.

Event - SMTP Notification



SMTP Notification Handler Configurations

This section configures the SMTP mail server address that the camera will use for sending emails.

From

Specifies the email address of the sender.

Trigger Event

Configures 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 Alarm
- Trigger Video Analysis

Message

Specifies the message content.

Subject

Specifies the subject of the message.

Attach JPEG Snapshot

Enables or disables email delivery of trigger event snapshots.

SMTP Notification Cont.

SMTP Server

Host Address :

Port :

25

(1~65535)

Username :

Password :

Authentication :

NO_AUTH

Recipient List

Enable	No	Email	Alarm	Motion	Tampering	Video Analysis
<input type="checkbox"/>	1		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	2		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	3		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	4		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	5		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	6		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	7		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	8		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	9		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	10		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SMTP Server

Host Address

Specifies the host name or IP address of the SMTP mail server.

Port Number

Specifies the port number of the SMTP mail server.

Username

Specifies the login username for the SMTP mail server.

Password

Specifies the login password for the SMTP mail server.

Authentication Mode

Specifies the SMTP server authentication mode; the options are **NO_AUTH**, **SMTP_PLAIN**, **LOGIN** and **TLS_TLS**.

Recipient List

Specifies the email address to send the email to when an event is triggered by **Alarm**, **Motion**, **Tampering** or **Video Analysis**. A maximum of 10 email addresses can be configured.

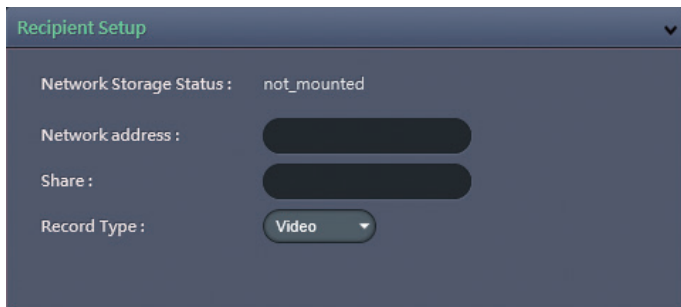
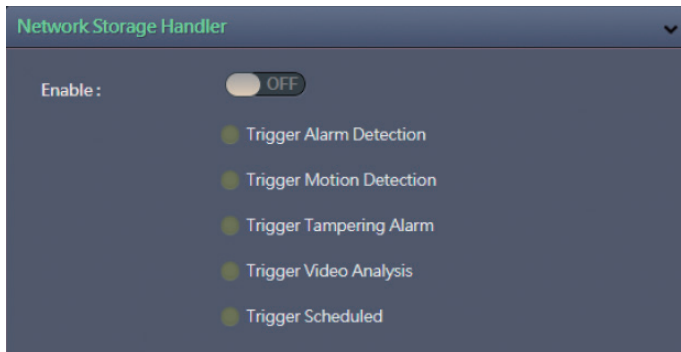
Save

Save button to apply the configurations; click on this button once and all the settings are confirmed for the new changes to take effect.

Reset

Reset button to discard all the settings and revert to the previous settings.

Event - Network Storage



Network Storage Configurations

Network Storage

This section configures the network storage server address that the camera will use when an event trigger is detected.

Trigger Event

Configures 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 Alarm
- Enable Trigger Video Analysis
- Enable Trigger Scheduled

Recipient Setup

Network Storage Status

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

Network Address

Specifies the IP address of the network storage server.

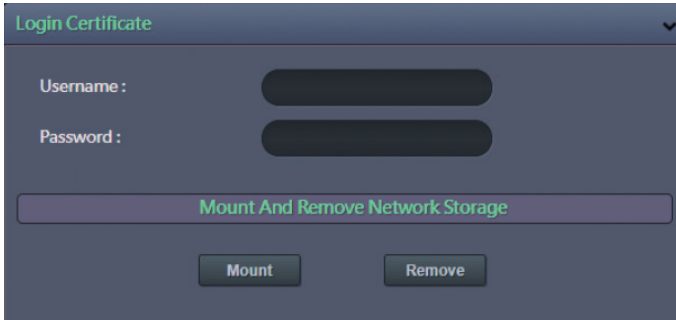
Share

Specifies the shared folder name on the network storage server.

Record Type

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

Network Storage Cont.



Login Certificate

Username and Password

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

Mount and Remove Network Storage

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** field will display **ok**.

Remove

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

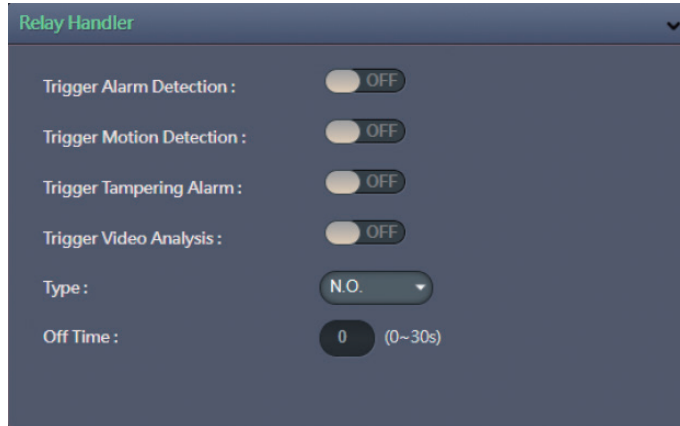
Save

Save button to apply the configurations; click on this button once and all the settings are confirmed for the new changes to take effect.

Reset

Reset button to discard all the settings and revert to the previous settings.

Event - Relay Handler



Relay Handler Configurations

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

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

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

Trigger Tampering Alarm: When a tampering event is detected, the **Alarm out** will be triggered.

Trigger Video Analysis: When a video analysis event is detected, the **Alarm out** will be triggered.

Types

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

Off Time

Configure the seconds from 0 to 30 seconds.

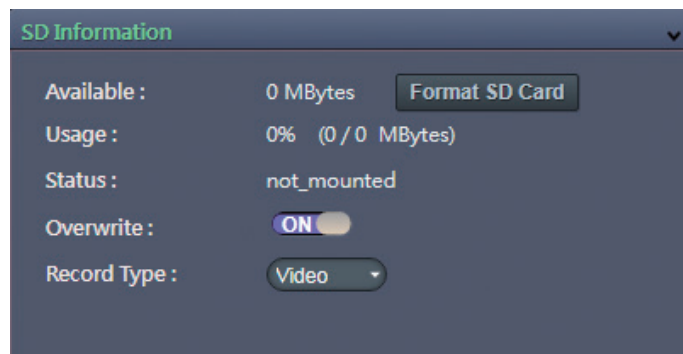
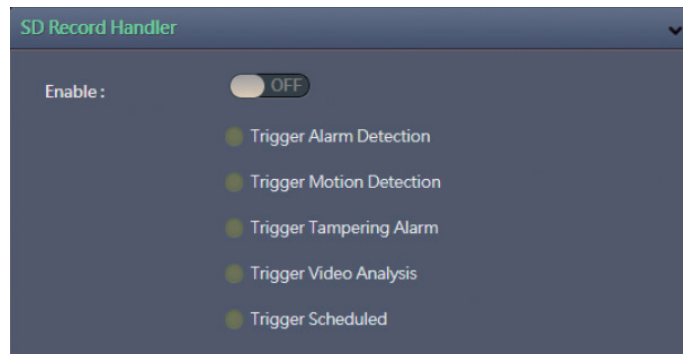
Save

Save button to apply the configurations; click on this button once and all the settings are confirmed for the new changes to take effect.

Reset

Reset button to discard all the settings and revert to the previous settings.

Event - SD Record



SD Record Handler Configurations

Configures 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 Alarm
- Enable Trigger Video Analysis
- Enable Trigger Scheduled

SD Information

Available

If an SD card is installed, this section will display information on the availability of the SD card.

Usage

If an SD card is installed, this section will display the percentage of the total storage used.

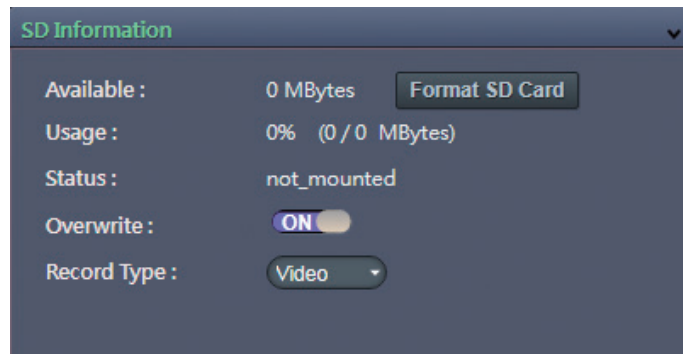
Format SD Card

Formats the SD card; all data stored on the SD card will be erased if this option is used.

Status

Displays 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.

SD Record Cont.



Overwrite

Enables or disables SD card overwrite.

Record Type

Configures the recording method to record the stream onto the SD card. The options are **Video** or **Snapshot**.

Save

Save button to apply the configurations; click on this button once and all the settings are confirmed for the new changes to take effect.

Reset

Reset button to discard all the settings and revert to the previous settings.

SD Record Cont.

Alarm Detection Settings	
Pre-event Snapshots :	3
Post-event Snapshots :	3
Pre-event Snapshot Interval :	1 Seconds
Post-event Snapshot Interval :	1 Seconds
FileName Prefix :	AlarmSD
Server Path :	snapshotAlarm

Motion Detection Settings	
Pre-event Snapshots :	3
Post-event Snapshots :	3
Pre-event Snapshot Interval :	1 Seconds
Post-event Snapshot Interval :	1 Seconds
FileName Prefix :	MotionSD
Server Path :	snapshotMotion

Tampering Alarm Settings	
Pre-event Snapshots :	3
Post-event Snapshots :	3
Pre-event Snapshot Interval :	1 Seconds
Post-event Snapshot Interval :	1 Seconds
FileName Prefix :	TamperSD
Server Path :	snapshotTampering

Video Analysis Settings	
Pre-event Snapshots :	3
Post-event Snapshots :	3
Pre-event Snapshot Interval :	1 Seconds
Post-event Snapshot Interval :	1 Seconds
FileName Prefix :	VideoAnalysisSD
Server Path :	snapshotVideoAnalysis

Alarm/Motion/Tampering/Video Analysis Settings Record Type Selected: Snapshot

Pre-event Snapshots

Configures the number of pre-event snapshots to upload to SD card. The options are **0, 1, 3, 5** and **10**.

Post-event Snapshots

Configures the number of post-event snapshots to upload to SD card. The options are **1, 3, 5, 10, 30** and **60**.

Pre-event Snapshot Interval

Configures the interval of pre-event snapshots. The options are **1, 3, 5** and **10**.

Post-event Snapshot Interval

Configures the interval of post-event snapshots. The options are **1, 3, 5** and **10**.

FileName Prefix

Configures a prefix to append to the filename. The default prefixes for Alarm, Motion, Tampering Detection and Video Analysis are **Alarm**, **Motion**, **Tampering** and **Video Analysis**, respectively.

The format of the filenames:

Alarm_yyyymmddhhmmss

Motion_yyyymmddhhmmss

Tampering_yyyymmddhhmmss

Video Analysis_yyyymmddhhmmss

Server Path

Configures a folder name on the SD card. The default folder names for Alarm, Motion, Tampering Detection and Video Analysis are **Alarm**, **Motion**, **Tampering** and **Video Analysis**, respectively.

SD Record Cont.

Alarm Detection Settings	
Pre-event Record :	3 (1~5) Seconds
FileName Prefix :	Alarm_Rec
Post-event Record :	5 (5~100) Seconds
Server Path :	videoAlarm

Motion Detection Settings	
Pre-event Record :	3 (1~5) Seconds
FileName Prefix :	Motion_Rec
Post-event Record :	5 (5~100) Seconds
Server Path :	videoMotion

Tampering Alarm Settings	
Pre-event Record :	3 (1~5) Seconds
FileName Prefix :	Tamper_Rec
Post-event Record :	5 (5~100) Seconds
Server Path :	videoTampering

Video Analysis Settings	
Pre-event Record :	3 (1~5) Seconds
FileName Prefix :	VideoAnalysis_Rec
Post-event Record :	5 (5~100) Seconds
Server Path :	videoVideoAnalysis

Alarm/Motion/Tampering/Video Analysis Settings

Record Type Selected: Video

Pre-event Record

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

FileName Prefix

Configures a prefix to append to the filename. The default prefixes for Alarm, Motion, Tampering Detection and Video Analysis are **Alarm**, **Motion**, **Tampering** and **Video Analysis**, respectively.

The format of the filenames:

Alarm_yyyymmddhhmmss

Motion_yyyymmddhhmmss

Tampering_yyyymmddhhmmss

Video Analysis_yyyymmddhhmmss

Post-event Record

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

Server Path

Configures a folder name on the SD card. The default folder names for Alarm, Motion, Tampering Detection and Video Analysis are **Alarm**, **Motion**, **Tampering** and **Video Analysis**, respectively.

SD Record Cont.

Schedule Settings

Schedule1 : Start: End: (0-23) hour

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

FileName Prefix:

Server Path :

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"/>

Trigger Scheduled Settings

Schedule1 and Schedule 2

Configures the **Start** time and **End** time to trigger the scheduled record video or snapshot event. Two time slots (**Schedule1** and **Schedule2**) are available.

FileName Prefix

Configures a prefix to append to the filename.

Server Path

Configures a folder name on the SD card.

Day/Time Inclusion Filter

Select the day of the week to trigger the schedule. **Schedule1** and **Schedule2** previously configured or **AllDay** for whole day recording can be selected for each weekday.

Save

Save button to apply the configurations; click on this button once and all the settings are confirmed for the new changes to take effect.

Reset

Reset button to discard all the settings and revert to the previous settings.



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