

OpenEye[®]

The Cloud Video Platform

4MP INDOOR MICRO DOME

HARDWARE MANUAL



OE- C1011D4 4MP Indoor Micro Dome Camera
User Manual

Manual Edition 37521AD – May 2021

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Important Safeguards

Read Instructions

Read all of the safety and operating instructions before using the product.

Retain Instructions

Save these instructions for future reference.

Attachments / Accessories

Do not use attachments or accessories unless recommended by the appliance manufacturer as they may cause hazards, damage product and void warranty.

Installation

Do not place or mount this product in or on an unstable or improperly supported location. Improperly installed product may fall, causing serious injury to a child or adult, and damage to the product. Use only with a mounting device recommended by the manufacturer or sold with the product. To insure proper mounting, follow the manufacturer's instructions and use only mounting accessories recommended by manufacturer.

Power source

This product should be operated only from the type of power source indicated on the marking label.

Precautions

Operating

Before using, make sure power supply and others are properly connected.

While operating, if any abnormal condition or malfunction is observed, stop using the camera immediately and then contact your local dealer.

Handling

Do not disassemble or tamper with parts inside the camera.

Do not drop or subject the camera to shock and vibration as this can damage camera.

Care must be taken when you clean the clear dome cover. Scratches and dust will ruin the image quality of your camera. Do not use strong or abrasive detergents when cleaning the camera body. Use a dry cloth to clean the camera when it is dirty. In case the dirt is hard to remove, use a mild detergent and wipe the camera gently.

Installation and Storage

Do not install the camera in areas of extreme temperatures in excess of the allowable range; install the camera in areas with temperatures within the camera's operating temperature, including the following: -31°F ~ 140°F (-35° ~ 60 °C)

Avoid installing in humid or dusty places. The relative humidity must be below 95%.

Avoid installing in places where radiation is present.

Avoid installing in places where there are strong magnetic fields and electric signals.

Avoid installing in places where the camera would be subject to strong vibrations.

Never face the camera toward the sun. Do not aim at bright objects. Whether the camera is in use or not, never aim it at the sun or other extremely bright objects. Otherwise the camera may be smeared and damaged.

Cleaning

If the video image becomes blurry or smudged in areas, it may be because the lens cover requires cleaning.

To clean the lens cover:

- Use hand soap or a non-abrasive detergent to wash off dirt or fingerprints.
- Use a microfiber cloth or non-abrasive fabric to dry the dome bubble.
 - **Important:** Failure to use the recommended cleaning materials may result in a damaged or scratched lens cover. A damaged lens cover may negatively impact image quality and cause unwanted IR light reflecting into the lens.

To clean the camera body:

- Use a dry or lightly dampened cloth to clean the camera body.
- Do not use strong or abrasive detergents.

Regulation

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Compliance is evidenced by written declaration from our suppliers, assuring that any potential trace contamination levels of restricted substances are below the maximum level set by EU Directive 2002/95/EC, or are exempted due to their application.

Warning

DANGEROUS HIGH VOLTAGES ARE PRESENT INSIDE THE ENCLOSURE.
DO NOT OPEN THE CABINET.
REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

Caution

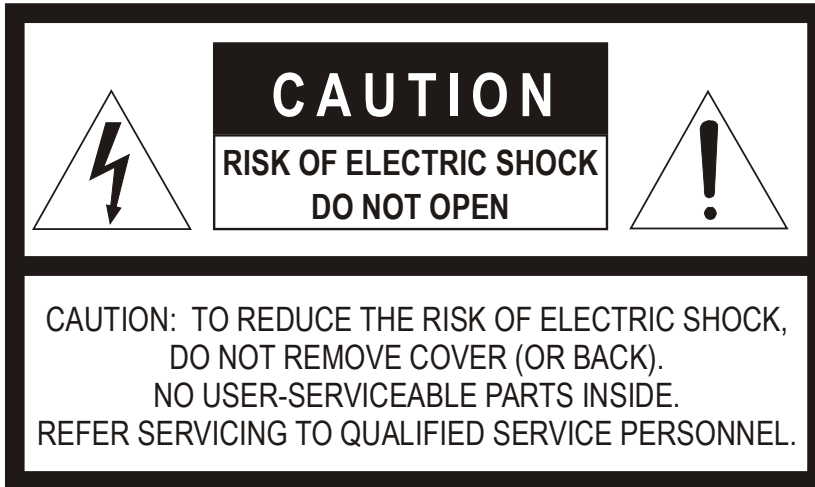


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| | |
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Introduction

OVERVIEW

The OE-C1011D4 is a compact HD indoor IP dome camera equipped with a 4MP 2.8mm fixed lens that provides crisp and clear images. True WDR and true Day/Night provide superior images in varied lighting environments. Adaptive IR technology prevents overexposure of objects close to the camera further enhancing the low light performance. Progressive Smart Compression reduces network throughput and storage requirements without impacting overall video quality and retention. The OE-C1011D4 includes a wide range of accessories allowing it to be mounted in a broad range of applications.

The OE-C1011D4 is ONVIF™ profile S/G/T compliant and fully compatible with the OpenEye Web Services platform, allowing multiple users to concurrently view high quality images and perform remote setup using a Web browser.

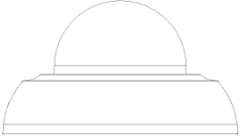
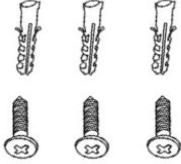
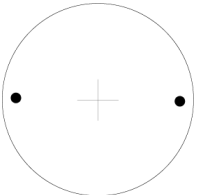

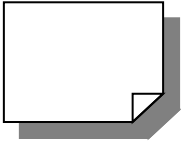
PRODUCT FEATURES

- 2.8mm Fixed Lens
- Built-in microphone
- Adaptive IR
- Progressive Smart Compression
- True WDR image processing
- Accessory Compatibility
- Internal Cable Connection
- NDAA Compliant
- Optional Paintable Dome Cover (Free Upon Request)

Getting Started

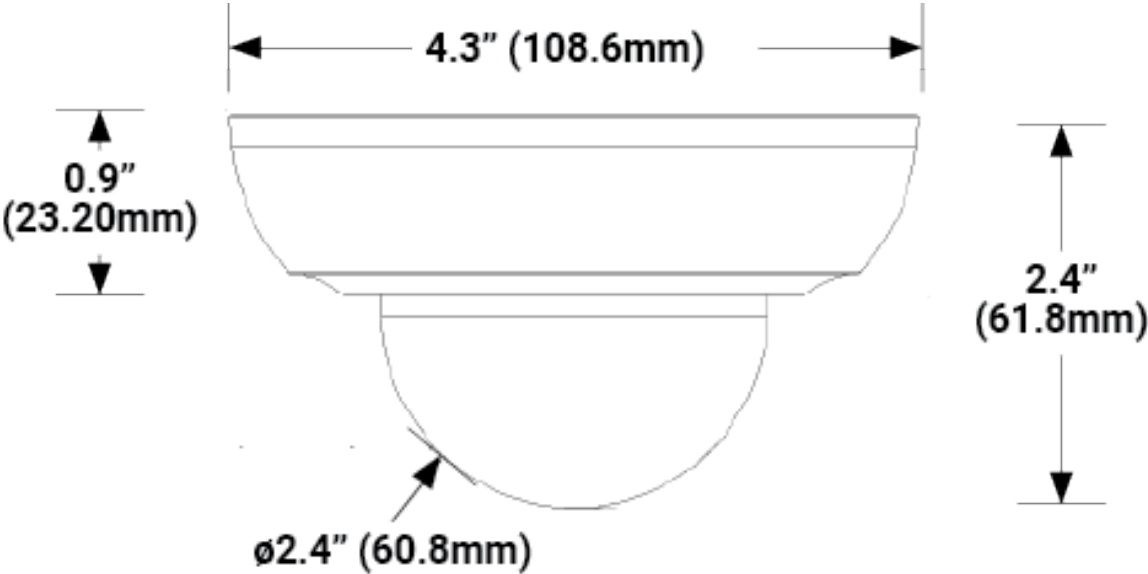
BOX CONTENTS

Before proceeding, please confirm that the box contains the items listed here. Please contact your dealer for assistance if any item is missing or has defects.

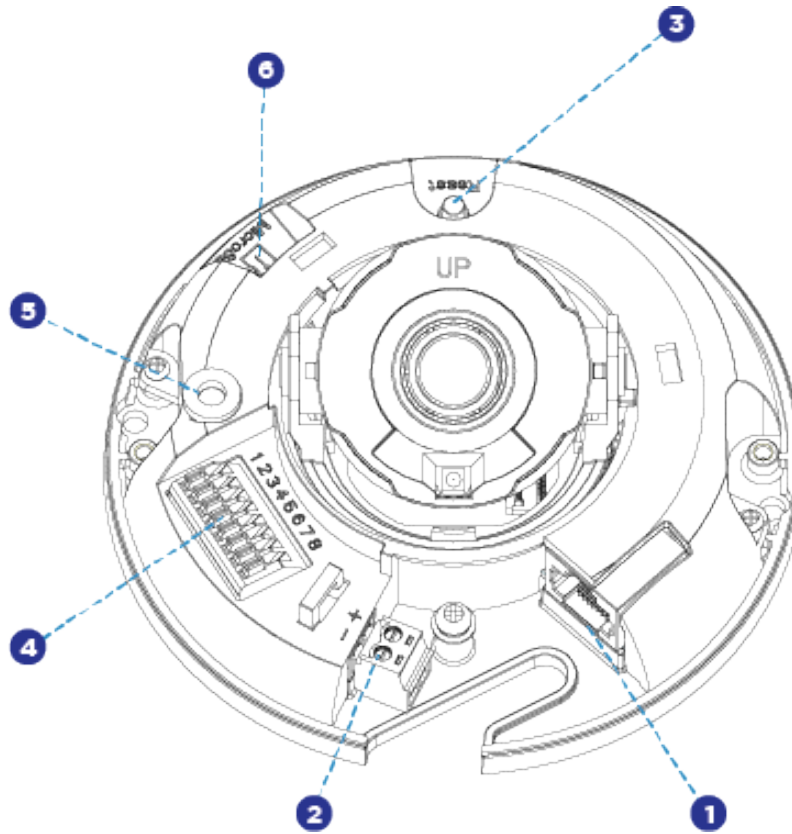
| | |
|---|---|
|  <p>OE-C1011D4 Dome Camera</p> |  <p>Self-tapping screws and Plastic Anchors x 3</p> |
|  <p>Mounting Template</p> |  <p>Security Torx Tool</p> |
|  <p>Quick Start Guide</p> | |

CAMERA OVERVIEW

CAMERA DIMENSIONS



CONNECTIONS



| Pin | Connection | Definition | |
|-----|---------------------|--|-------------------|
| 1 | RJ-45 | For network and PoE connections | |
| 2 | Power (12VDC) | 1 12vDC + | Power connection |
| | | 2 GND - | |
| 3 | Reset Button | To restore the camera to factory defaults: 1. Disconnect power for 30 seconds. 2. Reconnect power and wait 30 seconds. 3. Press and hold the reset button for 20 seconds. | |
| 4 | Alarm & Audio I/O | 1 Audio Out + | Audio connection |
| | | 2 GND | Ground connection |
| | | 3 Audio In + | Audio connection |
| | | 4 GND | Ground connection |
| | | 5 Alarm Input | Alarm connection |
| | | 6 GND | Ground connection |
| | | 7 Alarm Output + | Alarm connection |
| | | 8 Alarm Output - | Alarm connection |
| 5 | Built-in Microphone | | |
| 6 | microSD Card Slot | Insert the microSD card into the slot to store videos and snapshots | |

POWER CONNECTION

For an adequate power connection, use a 12vDC adaptor. Alternatively, you can power the camera by PoE if a Power Sourcing Equipment (PSE) switch is available. Ensure that the camera's power cable is correctly and firmly connected.



Note OpenEye recommends against using more than one power source at a time. Do not use a PoE power source when providing the camera with 12vDC power.

If using Power over Ethernet (PoE), make sure Power Sourcing Equipment (PSE) is in use in the network.

NETWORK CAMERA MANAGER

OpenEye Network Camera Manager (NCM) is a software tool that allows you to quickly and easily connect and configure your OpenEye IP Cameras. This software allows you to apply the camera password, assign IP addresses, configure video settings, and update firmware on multiple cameras at once.

NCM is pre-installed on all OpenEye Recorders and is also available for download www.OpenEye.net for installation on your personal computer or laptop. Network Camera Manager is a Java application, this allows it to be installed on Windows and Linux operating systems.

LAUNCHING NETWORK CAMERA MANAGER

Apex Windows Platforms

Network Camera Manager can be found on the desktop.

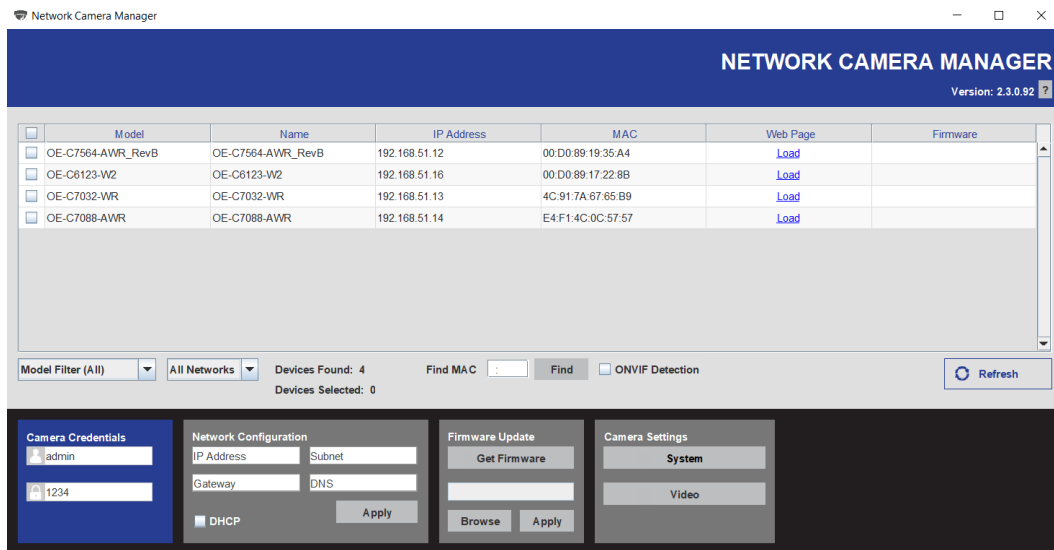
Linux Platforms

In the Apex Settings menu, go to the **Cameras** page and click **Advanced**.

FINDING NETWORK DEVICES

Click **Refresh** to reload the Device List.

To narrow your search by **Camera Model** or **Network**, use the **Model Filter** and **Networks** dropdowns.



| Model | Name | IP Address | MAC | Web Page | Firmware |
|-------------------|-------------------|---------------|-------------------|----------------------|----------|
| OE-C7564-AWR_RevB | OE-C7564-AWR_RevB | 192.168.51.12 | 00:D0:89:19:35:A4 | Load | |
| OE-C6123-W2 | OE-C6123-W2 | 192.168.51.16 | 00:D0:89:17:22:8B | Load | |
| OE-C7032-WR | OE-C7032-WR | 192.168.51.13 | 4C:91:7A:67:65:B9 | Load | |
| OE-C7088-AWR | OE-C7088-AWR | 192.168.51.14 | E4:F1:4C:0C:57:57 | Load | |

A Mac Address search is also available if you are looking for a specific device.

USERNAME AND PASSWORD

**OpenEye IP cameras ship without a default password.*

Username: **admin**

Note Passwords must be 9-32 characters including at least two elements of the following three: digits, letters, and special characters.

The **admin** user password can be set using the following methods:

1. OpenEye recorders running Apex 2.1 or newer will automatically set a new unique password if:
 - Connected to an M-Series recorder with a built in PoE switch.
 - Connected to a network switch through the camera network port and selected then added in setup, if a new password has not already been set.

Note You can set your Default Camera Password under the General Settings page within *Setup > System Settings > General Settings*. For instructions on defining your unique camera password, visit:
<https://www.openeye.net/support/faqs/default-camera-password>

2. Connect to the camera directly through a Web Browser and follow the onscreen prompts.
3. Use the Network Camera Manager (NCM) Utility.

Note The NCM Software Manual can be found at <https://www.openeye.net/ncm-manual>.

Note Refer to your Apex recorder manual or quick start guide for instruction on adding cameras.

VIEWING A NETWORK CAMERA

Click **Load** in the row of the desired camera.

Enter a new Admin password.

- Passwords must be 9-32 characters and include at least two of the following three elements:
 - Digits
 - Letters
 - Special Characters
 - All special characters are allowed

Change Password

Username:

Password:

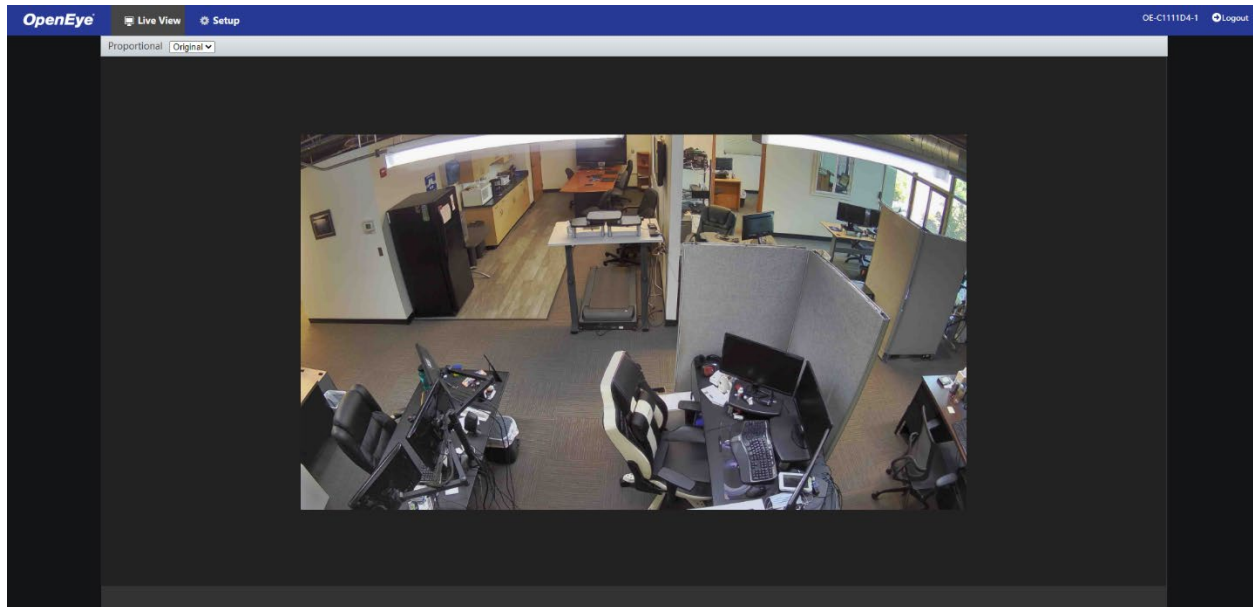
9 to 32 characters including at least two elements of the following three: digits, letters, and special characters

Weak Medium Strong

Confirm:

OK

Live View



The camera displays a live view using the MJPEG stream for setup purposes.

Proportional – Select the image ratio for the live preview image (Original, Stretch, Scale)

Setup – Go to the Setup tab to access the camera menus

Logout – Log out the current user

SETUP & CONFIGURATION

BASIC CAMERA SETTINGS

Basic Information

The Basic Information tab displays the product model, firmware, network, and MAC address for the connected camera, along with the current camera Status.

| | |
|------------------------------|---|
| Basic Camera Settings | Basic Info |
| Basic Info | Basic Info |
| Image | Model OE-C1111D4-1 |
| Video | Firmware Version IPC_G6107-B0001P86D1806C80 |
| Network | Hardware Version A |
| Time | Boot Version V0.1 |
| Network Settings | Serial No. 210235TGDJ3205000000 |
| Streaming Settings | Network Settings 10.0.22.13/255.255.252.0/10.0.23.156 |
| Picture Settings | MAC Address 4c:91:7a:67:a8:4c |
| Event Settings | Status |
| Storage Settings | System Time 2020/9/29 11:39:10 |
| Security Settings | Operation Time 0 Day(s) 4 Hour(s) 26 Minute(s) |
| Maintenance | <input type="button" value="Refresh"/> |

The nested Image, Video, Network, and Time tabs are shortcuts to the more advanced menu options further down the Setup list. For more information about these tabs, see the appropriate sections later in the manual.

NETWORK SETTINGS

Network

The Network tab allows you to configure the connected camera network settings.

DHCP IP Address

The default static IP address of the camera is 192.168.51.2, and the default subnet mask is 255.255.255.0. DHCP is turned on by default.

If a DHCP server is used in the network, the IP address of your camera may be assigned dynamically.

The image displays two side-by-side screenshots of the OpenEye camera's web interface, specifically the 'Network' settings page. The left screenshot shows the 'DHCP/Static IP' dropdown menu set to 'DHCP'. The 'IPv6' section has 'IPv6 Mode' set to 'Manual'. The 'DNS' section has 'Preferred DNS Server' and 'Alternate DNS Server' both set to '8.8.8.8' and '8.8.4.4' respectively. The 'MTU' is set to '1500', 'Port Type' is 'FE Port', and 'Operating Mode' is 'Auto-negotiation'. A 'Save' button is visible at the bottom. The right screenshot shows the 'DHCP/Static IP' dropdown menu set to 'Static'. The 'IP Address' is '192.168.51.3', 'Subnet Mask' is '255.255.255.0', and 'Default Gateway' is '192.168.51.1'. The 'IPv6' section has 'IPv6 Mode' set to 'Manual'. The 'DNS' section has 'Preferred DNS Server' and 'Alternate DNS Server' both set to '8.8.8.8' and '8.8.4.4' respectively. The 'MTU' is set to '1500', 'Port Type' is 'FE Port', and 'Operating Mode' is 'Auto-negotiation'. A 'Save' button is visible at the bottom.

Static IP Address

To set up a new static IP address:

1. Select **Static** from the **DHCP/Static IP** dropdown option.
2. Enter the **IP Address**, **Subnet Mask**, and **Default Gateway**.
***Note** - Make sure that the IP address of the camera is unique in the network.
3. **Save**

IPv6 Address Configuration

1. Enter the **IPv6 Address**, set the **Prefix Length** and **Default Gateway**.
***Note** - Make sure that the IP address of the camera is unique in the network.
2. **Save**

DNS

Set your **Preferred DNS Server** and **Alternate DNS Server**.

Port

| Port Type | External Port | External IP Address | Status |
|-------------|---------------|---------------------|----------|
| HTTP Port | 80 | 0.0.0.0 | Inactive |
| RTSP Port | 554 | 0.0.0.0 | Inactive |
| Server Port | 81 | 0.0.0.0 | Inactive |
| HTTPS Port | 443 | 0.0.0.0 | Inactive |

HTTP Port – Configure your relevant port number.



Note If the HTTP port number has been occupied already, a “Port conflicts” message will display. Ports 23, 81, 82, 85, 3260, and 49152 are occupied by default.

HTTPS Port – The default HTTPS Port is 443; setting range: 1024 ~65535.

RTSP Port – The default RTSP port is 554; setting range: 1024 ~65535.



Note No port number can be used in duplication on more than one item.

Port Mapping

To enable Port Mapping:

1. Toggle **On** for **Port Mapping**.
2. Use the **Mapping Type** dropdown menu to select a type.
3. If selecting **Manual**, the external ports must be configured.



Note If the configured port is already occupied, then the Status will show as inactive and a new port must be selected.

4. **Save**

DDNS

| Basic Camera Settings | | DDNS |
|---------------------------|----------------|---|
| Network Settings | | |
| Network | | |
| Port | | |
| ▶ DDNS | | |
| FTP | | |
| E-mail | | |
| Streaming Settings | | |
| Picture Settings | | |
| Event Settings | | |
| Storage Settings | | |
| Security Settings | | |
| Maintenance | | |
| | DDNS Service | <input type="radio"/> On <input checked="" type="radio"/> Off |
| | DDNS Type | NO-IP ▼ |
| | Server Address | www.noip.com |
| | Domain Name | |
| | Username | |
| | Password | |
| | Confirm | |
| | Save | |

1. **Enable** DDNS Service.
2. Select a **DDNS Type**.
3. Enter **Server Address**, **Domain Name**, **Username** and **Password**.
4. **Save**

FTP

Use FTP (file transfer protocol) to upload snapshots from network cameras to a specified server.

The screenshot shows the 'Basic Camera Settings' menu with 'FTP' selected. The 'General' tab is active, displaying 'Server Parameters' and 'Snapshot Image' sections.

Server Parameters:

- Server IP: 0.0.0.0
- Port No.: 21
- Username: [Empty]
- Password: [Masked]
- Upload Images:
- Overwrite Storage:
- Overwrite At(image): 1000
- Test: [Button]

Snapshot Image:

- Save To: [Empty]
- Root Directory: [Disable] \\ [Disable] \\ [Disable] \\ [Disable]
- File Name: [Empty]
- Separator: [.]
- Naming Element Table:

| No. | Naming Element |
|-----|----------------|
| 1 | None |
| 2 | |
| 3 | |
| 4 | |
| 5 | |

[Save] button and a note: "Note: Overwrite will take place in the current directory."

To configure FTP:

1. Set the **Server IP** address and **Port No.** for the FTP server, **Username** and **Password** used to upload images to the FTP server, select **Upload Images**, **Overwrite Storage** and set **Overwrite At** (threshold for overwriting images).

2. Set the path for saving snapshots on the FTP server and the file name format.

Example: set path as Preset No.\\IP Address\\Date\\Hour(s), and set file name as Preset No.-PTZ Zoom-PTZ Latitude-PTZ Longitude.jpg.

3. **Save.**

Email

The camera can send an e-mail via Simple Mail Transfer Protocol (SMTP) when a variety of events occur. Two sets of SMTP accounts can be configured. Each set includes SMTP Server, Account Name, Password and E-mail Address settings. For SMTP server, contact your network service provider for more specific information.

| Basic Camera Settings | E-mail |
|---------------------------|--|
| Network Settings | |
| Network | |
| Port | |
| DDNS | |
| FTP | |
| ▶ E-mail | |
| Streaming Settings | |
| Picture Settings | |
| Event Settings | |
| Storage Settings | |
| Security Settings | |
| Maintenance | |
| | <p>Sender</p> <p>Name <input type="text"/></p> <p>Address <input type="text"/></p> <p>SMTP Server <input type="text"/></p> <p>SMTP Port <input type="text" value="25"/></p> <p>TLS/SSL <input type="radio"/> On <input checked="" type="radio"/> Off</p> <p>Snapshot Interval(s) <input type="text" value="2"/> <input checked="" type="checkbox"/> Attach Image</p> <p>Server Authentication <input checked="" type="radio"/> On <input type="radio"/> Off</p> <p>Username <input type="text"/></p> <p>Password <input type="password" value="....."/></p> <p>Recipient</p> <p>Name1 <input type="text"/></p> <p>Address1 <input type="text"/> Test</p> <p>Name2 <input type="text"/></p> <p>Address2 <input type="text"/> Test</p> <p>Name3 <input type="text"/></p> <p>Address3 <input type="text"/> Test</p> <p>Save</p> |

| Parameter | Description |
|-------------------|--|
| TLS/SSL | When enabled, the e-mail will be encrypted using TLS (Transport Layer Security) or Secure Socket Layer (SSL) to protect privacy. First it tries to send through an SSL connection. If the SMTP server supports SSL, the e-mail will be sent through the SSL connection; otherwise, it tries to send using STARTTLS. |
| Attach Image | When enabled, the e-mail will contain 3 instant snapshots as attachment according to the Capture Interval. |
| Username/Password | Username and password of the registration email address. The password allows the following special characters \ / : * ? ' " < > % & |

STREAMING SETTINGS

Video

The video settings menu configures the camera's video settings, including **Resolution**, **Frame Rate**, **Bit Rate**, and the **Image Quality**.

To configure camera streams:

Use the dropdown menus to configure the **Video Compression**, **Resolution**, **Frame Rate**, **Bitrate Type**, **Smart Encoding**, and **GOP**.

1. Check to **Enable Sub Stream** and configure if desired.
2. **Save**

Smart Encoding – Turn on Smart Encoding to enable H.264+ encoding to reduce bit rate. It is recommended not to set the frame rate below 10FPS when smart compression is enabled.

Resolution and Frame Rate – Use the dropdown menu to select the base resolution and frame rate for the main stream.



Note Higher frame rate will increase video smoothness but will increase file size and bandwidth usage. Lowering the frame rate will conserve file size and bandwidth usage at the expense of video smoothness.

Video Compression – H.264, H.265, and MJPEG are available for video compression.

Image Quality – If the Encoding Mode is set to VBR, you can adjust the quality level for images by moving the sliding bar. The Quality side of the bar improves video quality, and the Bit Rate side of the bar reduces Bit rate.

I-Frame Interval / GOP – The Group of Pictures setting allows you to modify the frame structure of the video stream. This setting changes the frequency of the I-frames that occur within the stream of P-frames. Increasing this number increases the number of P-frames between each I-frame, decreasing the file size of the stream, but increasing the risk of video decoding errors. It is recommended setting the GOP to be approximately twice the frame rate.

Smoothing – Configure the amount of video smoothing. Moving the sliding bar toward Smooth increases the level of smoothing but may affect image quality.



Note In a poor network environment, you can increase smoothing to get more fluid video.

Stream URLs / RTSP

It is possible to connect to OpenEye IP cameras using third party software like VLC media player.

To connect some types of software will need to know the stream URL. All OpenEye IP cameras can deliver two RTSP streams.

The RTSP stream URL format is as follows:

`rtsp://[USER]:[PASSWORD]@[IP ADDRESS]:[RTSP PORT]/media/video[STREAM]`

[USER] – This is the username to access your device

[PASSWORD] – This is the password to the user

[IP ADDRESS] – This is the IP address of your device

[RTSP PORT] – This is the RTSP port of your device; the default RTSP Port is 554

[STREAM] –

- Primary Stream: video1
- Sub-stream: video2

Example:

| | |
|---------------------|-------------------------|
| [USER] | <i>admin</i> |
| [PASSWORD] | <i>1\$S!9#6v\$\$\$1</i> |
| [IP ADDRESS] | <i>192.168.51.51</i> |
| [RTSP PORT] | <i>554</i> |
| [STREAM] | <i>1</i> |

RTSP Stream URL - `rtsp://admin:1$S!9#6v$$$1@192.168.51.51:554/media/video1`

Snapshot

The Snapshot tab is used to configure the settings for timed or continual snapshots.

To configure Snapshots:

1. Use the dropdowns to select the desired **Resolution**, **Snapshot Interval**, and the **Number of Snapshots**.
2. If you desire Scheduled Snapshots, select **Schedule** Snapshot Mode, and designate snapshot times.
3. **Save**

| Parameter | Description |
|--------------------|--|
| Snapshot Interval | Interval between two snapshots. For example, with Snapshot Interval set to 1 and Number of Snapshot set to 2, the camera will take 2 snapshots (take one first and then take another after 1 second). |
| Number to Snapshot | Currently 1, 2, and 3 snapshots are allowed. |
| Snapshot Mode | <p>Schedule: You need to set a snapshot time, e.g., 19:12:00, which means the camera takes a snapshot at 19:12:00.</p> <p>Repeat: Allows you to set an interval (unit: sec). For example, according to the settings shown in the figure above, 60 seconds must elapse before the camera takes another two snapshots.</p> |

Audio

The Audio tab allows you to configure the audio encoding settings for your camera.

The screenshot shows the 'Audio' configuration page. On the left is a sidebar with menu items: Basic Camera Settings, Network Settings, Streaming Settings (with sub-items Video, Snapshot, Audio, ROI, Media Stream), Picture Settings, Event Settings, Storage Settings, Security Settings, and Maintenance. The 'Audio' tab is active. The main area is divided into 'Audio Input' and 'Audio Output' sections. Under 'Audio Input', there are radio buttons for 'On' (selected) and 'Off', a dropdown for 'Access Mode' (Line/Mic), an input field for 'Input Gain' (128) with a range of [0~255], a dropdown for 'Audio Compression' (G.711U), a dropdown for 'Sampling Rate(KHz)' (8), and radio buttons for 'Noise Suppression' (On selected, Off). Below that are 'Audio 1' (Mic) and 'Audio 2' (Line) dropdowns, each with an 'Enable' checkbox. Under 'Audio Output', there is a dropdown for 'Audio Output' (Line). A 'Save' button is at the bottom.

To configure Audio setup:

1. Configure the Audio settings as desired.
2. **Save**

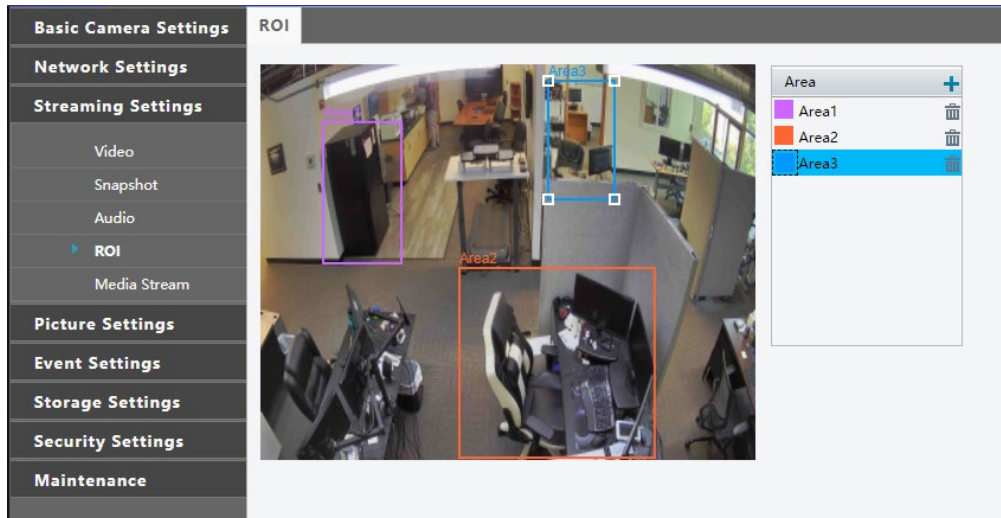


Note Only one Audio Channel can be active at a time. It is recommended to configure only channel 1. If the additional channel is needed, please contact customer support for advanced settings.

| Parameter | Description |
|--------------------------|---|
| Audio Input | No audio data will be encoded when Off is selected. Note: It is recommended to select Off if you do not need audio. This can improve device performance to some extent. |
| Access Mode | Line/Mic |
| Audio Compression | Two options: G.711U, G.711A. G.711U and G.711A support 8K sampling rate only. |
| Input Gain | Audio signal amplification for sampling. The greater the gain, the greater amplification. |
| Noise Suppression | Used to reduce noise in images. To enable noise suppression, select On . |
| Audio 1 / Audio 2 | Audio output channel(s). To enable audio input, select Enable . |

Region of Interest (ROI)

When Region of Interest (ROI) is enabled, the system ensures the image quality for the ROI first if the bit rate is insufficient.



To enable ROI:

1. Click **+** on the Area box.
2. Arrange the ROI square as desired in the camera image. Click and drag to move the square and use the corner markers to expand the square. The interior of the ROI square will be considered the ROI.
3. Click **+** again to add additional ROIs.
4. Click the trash icon to delete a created ROI.

Changes will be saved automatically.

Media Stream

You can display the established media streams from a camera. You can also set the camera to transmit code streams by the UDP or TCP protocol to a specified IP address and port number.



Note Changes to the media stream will take effect after the camera has been restarted.

| Stream Profile | Protocol | Destination IP | Destination... | Persistent | + |
|----------------|----------|----------------|----------------|------------|---|
| Sub Stream | TCP | 10.0.70.108 | 44216 | Disable | |
| Main Stream | TCP | 10.0.70.108 | 44218 | Disable | |
| Main Stream | TCP | 10.0.22.37 | 58529 | Disable | |
| Sub Stream | TCP | 10.0.22.37 | 59558 | Disable | |

Main Stream

Multicast Address:

Port:

Sub Stream

Multicast Address:

Port:

Save

To configure media streams:

1. Click the **+** on the right side of the title bar and the Add Media Stream page will appear.

| Stream Profile | IP Address | Port | Protocol | Persistent | + |
|----------------|------------|------|----------|------------|---|
| | | | | | |

2. Select a **Stream Type**, and then set the **IP Address** and **Port Number** of the unicast or multicast group for the decoding device that receives audio and video streams from the camera.

Add Media Stream ✕

Stream Profile:

IP Address:

Port:

Protocol:

Persistent: Enable Disable

Save Cancel

3. Toggle **Persistent** to **Enable** if you want the device to establish the media stream that you have just configured automatically upon each subsequent restart.
4. **Save**
5. Click the trashcan icon to **delete** a created media stream.

| Stream Profile | IP Address | Port | Protocol | Persistent | + |
|----------------|-------------|------|----------|------------|---|
| Main | 10.0.30.165 | 80 | UDP | Disable | |

PICTURE SETTINGS

Image

The Image tab allows you to configure the setting for the camera image as seen in Live View. When adjusting your image settings, the changes will be saved automatically and will display in the camera image preview window.

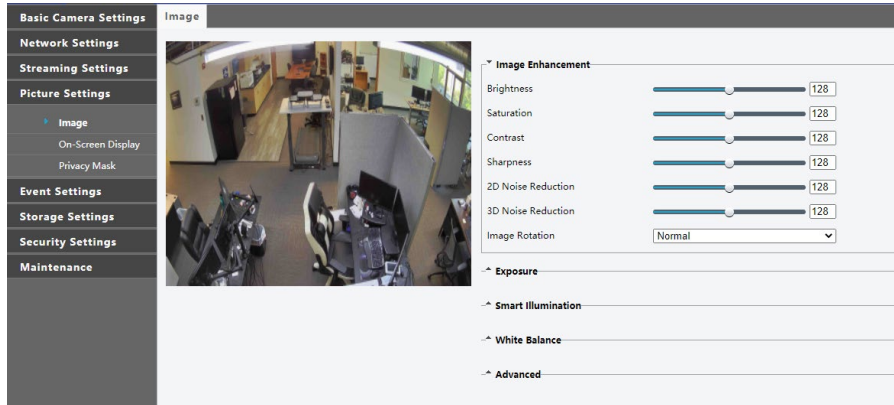


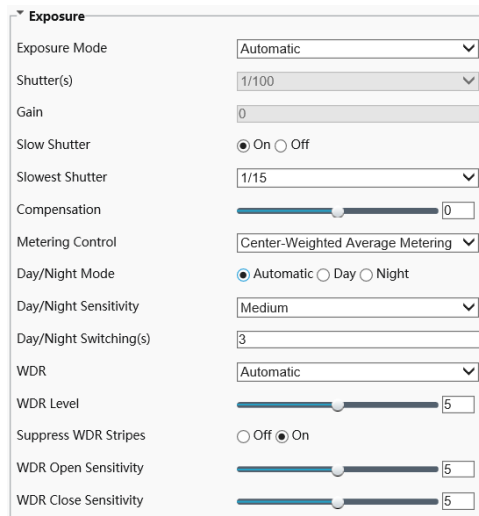
Image Enhancement

Use the sliding scales to adjust the Image settings or set a numeric value in the value box. The dropdown Image Rotation menu will rotate the camera image.



Exposure

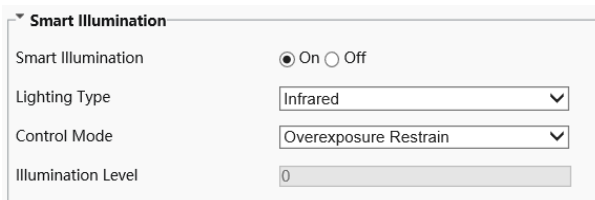
By default, the Exposure Mode is set to Automatic. Other options include Custom, Indoor 50hz, Indoor 60hz, and Manual. Using Custom or Manual allows you to manually configure the shutter and gain control.



| Parameter | Description |
|-------------------------------|--|
| Exposure Mode | <ul style="list-style-type: none"> • Automatic: The camera automatically adjusts exposure according to the environment. • Custom: The user sets exposure as needed. • Indoor 50Hz: Reduce stripes by limiting shutter frequency. • Indoor 60Hz: Reduce stripes by limiting shutter frequency. • Manual: Finetune image quality by setting shutter, gain and iris manually. • Low Motion Blur: Control the minimum shutter to reduce motion blur in faces captured in motion. |
| Shutter (s) | <p>Shutter is used to control the light that comes into the lens. A fast shutter speed is ideal for scenes in quick motion. A slow shutter speed is ideal for scenes that change slowly.</p> <p>Note:</p> <ul style="list-style-type: none"> • You can set a shutter speed when Exposure Mode is set to Manual or Shutter Priority. • If Slow Shutter is set to Off, the reciprocal of the shutter speed must be greater than the frame rate. |
| Gain | <p>Control image signals so that the camera outputs standard video signals according to the light condition.</p> <p>Note: You can set this parameter only when Exposure Mode is set to Manual or Gain Priority.</p> |
| Slow Shutter | Improves image brightness in low light conditions. |
| Slowest Shutter | <p>Set the slowest shutter speed that the camera can use during exposure.</p> <p>Note: You can set this parameter only when Slow Shutter is set to On.</p> |
| Compensation | <p>Adjust the compensation value as required to achieve the desired effects.</p> <p>Note: You can set this parameter only when Exposure Mode is not set to Manual.</p> |
| Metering Control | <p>Set the way the camera measures the intensity of light.</p> <ul style="list-style-type: none"> • Center-Weighted Average Metering: Measure light mainly in the central part of images. • Evaluative Metering: Measure light in the customized area of images. • Face Metering: Adjust image quality in poor lighting conditions by controlling the brightness of captured face in Face scene. <p>Note: You can set this parameter only when Exposure Mode is not set to Manual.</p> |
| Day/Night Mode | <p>Automatic: The camera outputs the optimum images according to the light condition. In this mode, the camera can switch between night mode and day mode automatically.</p> <p>Night: The camera provides high-quality black and white images using the existing light</p> <p>Day: The camera provides high-quality color images using the existing light.</p> |
| Day/Night Sensitivity | <p>Light threshold for switching between day mode and night mode. A higher sensitivity means that the camera is more sensitive to the change of light and becomes more easily to switch between day mode and night mode.</p> <p>Note: You can set this parameter only when Day/Night Mode is set to Automatic.</p> |
| Day/Night Switching(s) | <p>Set the length of time before the camera switches between day mode and night mode after the conditions for switching are met.</p> <p>Note: You can set this parameter only when Day/Night Mode is set to Automatic.</p> |

| | |
|-----------------------------|--|
| WDR | Enable WDR to distinguish the bright and dark areas in the same image. Note: You can set this parameter only when Exposure Mode is neither Customize nor Manual and when Image Stabilizer is disabled. |
| WDR Level | After enabling the WDR function, you can improve the image by adjusting the WDR level. Note: Use level 7 or higher when there is a high contrast between the bright and dark areas of the scene. In the case of low contrast, it is recommended to disable WDR or use level 1-6. |
| Suppress WDR Stripes | When enabled, the camera can automatically adjust slow shutter frequency according to the frequency of light to minimize stripes that may appear in images. |

Smart Illumination



Smart Illumination

Smart Illumination On Off

Lighting Type

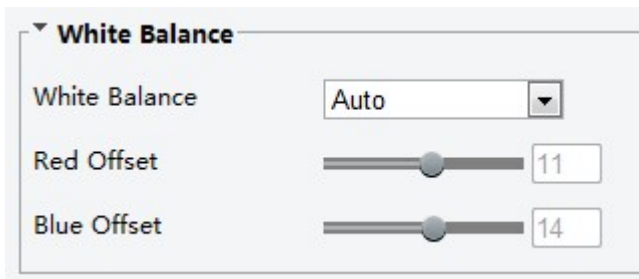
Control Mode

Illumination Level

| Parameter | Description |
|---------------------------|--|
| Lighting Type | <ul style="list-style-type: none"> Infrared: The camera uses infrared light illumination. |
| Control Mode | <ul style="list-style-type: none"> Global Mode: The camera adjusts IR illumination and exposure to achieve balanced image effects. Some areas might be overexposed if you select this option. This option is recommended if monitored range and image brightness are your first priority. Overexposure Restrain: The camera adjusts IR illumination and exposure to avoid regional overexposure. Some areas might be dark if you select this option. This option is recommended if clarity of the central part of the image and overexposure control are your first priority. Manual: This mode allows you to manually control the intensity of IR illumination. |
| Illumination Level | Set the intensity level of the IR light. The greater the value, the higher the intensity. 0 means that the IR light is turned off. Note: You can set this parameter only when Control Mode is set to Manual . |

White Balance

White balance is the process of offsetting unnatural color cast in images under different color temperatures so as to output images that best suit human eyes.



White Balance

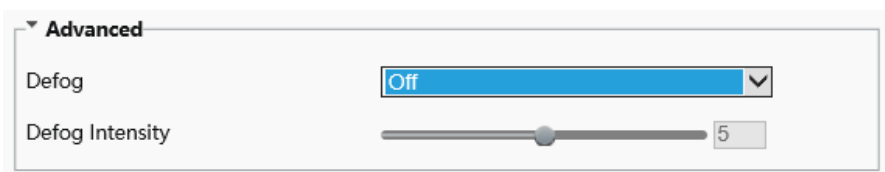
White Balance

Red Offset

Blue Offset

| Parameter | Description |
|----------------------|---|
| White Balance | <p>Adjust the red or blue offset of the image:</p> <p>Auto/Auto2: The camera adjusts the red and blue offset automatically according to the light condition (the color tends to be blue). If the images are still unnaturally red or blue in Auto mode, please try Auto2.</p> <p>Fine Tune: Allow you to adjust the red and blue offset manually.</p> <p>Outdoor: Suitable for outdoor environment with a relatively greater color temperature range.</p> <p>Locked: Lock the current color temperature without change.</p> <p>Sodium Lamp: The camera adjusts red and blue offset automatically according to the light condition (the color tends to be red).</p> |
| Red Offset | <p>Adjust the red offset manually.</p> <p>Note: You can set this parameter only when White Balance is set to Fine Tune.</p> |
| Blue Offset | <p>Adjust the blue offset manually.</p> <p>Note: You can set this parameter only when White Balance is set to Fine Tune.</p> |

Advanced



Defog – Adjust the clarity of images captured in fog or haze conditions.

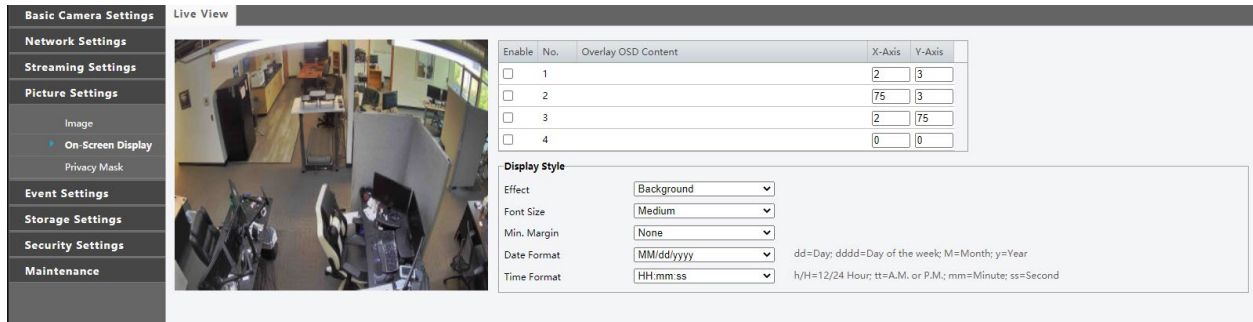
- Use the Defog dropdown menu to turn Defog **On** or **Off**.
- Slide the **Defog Intensity** bar to the desired position (1 is the minimum intensity and 9 is the maximum intensity).



Note The Defog function is only available when WDR is disabled.

On-Screen Display

Up to 4 on-screen displays (OSD) can be configured for the camera image.



The screenshot shows the 'Basic Camera Settings' interface. The 'On-Screen Display' option is selected under 'Picture Settings'. The 'Live View' window shows a camera feed of an office. To the right, there is a table for configuring OSD content and a 'Display Style' section.

| Enable | No. | Overlay OSD Content | X-Axis | Y-Axis |
|--------------------------|-----|---------------------|--------|--------|
| <input type="checkbox"/> | 1 | | 2 | 3 |
| <input type="checkbox"/> | 2 | | 75 | 3 |
| <input type="checkbox"/> | 3 | | 2 | 75 |
| <input type="checkbox"/> | 4 | | 0 | 0 |

Display Style

Effect: Background
Font Size: Medium
Min. Margin: None
Date Format: MM/dd/yyyy
Time Format: HH:mm:ss

dd=Day; dddd=Day of the week; M=Month; y=Year
h/H=12/24 Hour; tt=A.M. or P.M.; mm=Minute; ss=Second

To add an on-screen display:

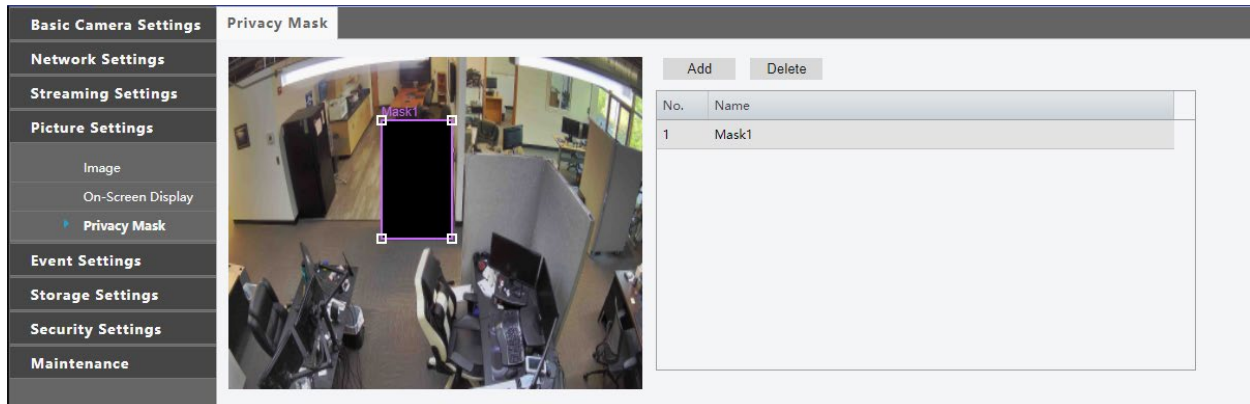
1. Select the position and content of the OSD.
 - a. **Position:** Click the desired box in the Live View area. After the cursor shape is changed, click and hold the button to move the box to the desired position. To set the position precisely, use the X and Y coordinates.
 - b. **Overlay OSD Content:** The drop-down list provides Time, Preset and Serial Info. You may also select Custom and enter the content you want.
2. After you have completed the settings, a message appears to indicate the successful settings.
3. To cancel OSD for an area, clear the OSD content in the Overlay OSD Content column.



Note To view the OSD in the web browser Live View, you must refresh the browser after setting the OSD for the changes to take effect.

Privacy Mask

Add a privacy mask to your camera image to hide desired areas from view.



| No. | Name |
|-----|-------|
| 1 | Mask1 |

To **add** a privacy mask:

1. Click **Add**.
2. Click and drag the newly generated **mask square** to the desired location on the camera image. Arrange and resize the mask as needed.

To **delete** a privacy mask:

1. Select the desired mask from the Privacy Mask list.
2. Click **Delete**.

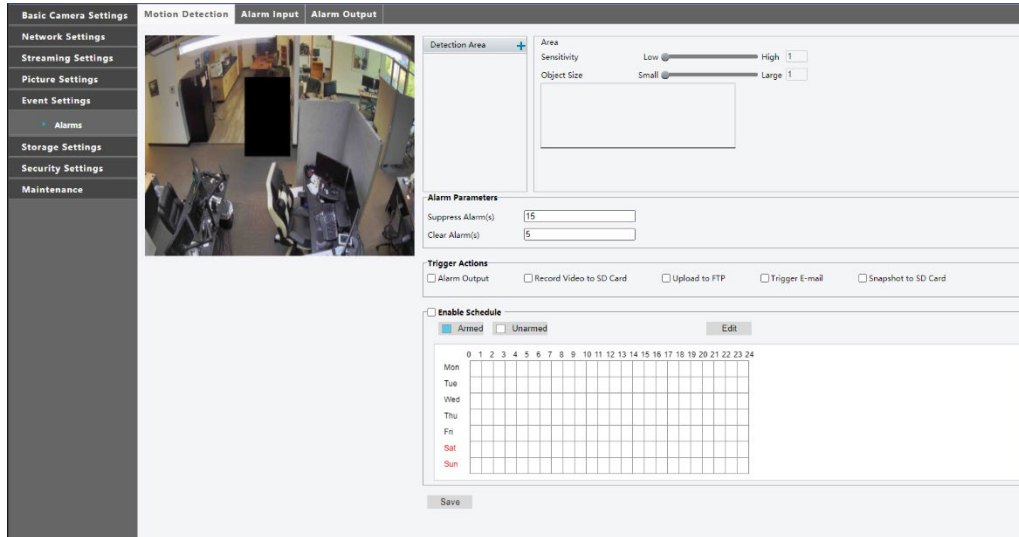
Changes will be saved automatically.

EVENTS SETTINGS

Alarms

Motion Detection

Motion detection is used to detect motion in a specified area during a period of time. The use of motion detection requires setting a detection area, detection sensitivity, object size, and history. When these requirements are met, the motion detection alarm will activate.



To configure Motion Detection:

1. Click and drag the **detection box** to the desired location on the camera image and use the corner markers to adjust the size of the detection box as desired.
2. Use the **Sensitivity** and **Object Size** slider bars to adjust the motion detection parameters as desired.

Sensitivity – This determines how many pixels have to change in order for the alarm to consider motion to have occurred.

Object Size – This determines the area within the camera image that the motion must exceed in order for the alarm to consider motion to have occurred.

Alarm Parameters

Suppress Alarm – After an alarm is triggered, the same alarm will not be reported again within the designated time.

Clear Alarm – After the alarm is triggered:

- a) If the same alarm is not triggered within the set time, the alarm will be cleared and the same alarm can be reported again.
- b) If the same alarm is triggered within the set time, the alarm will not be cleared until the suppress alarm time expires. Then the same alarm can be reported again.

Select the **Trigger Actions** to occur once the motion detection alarm has been triggered.

Trigger Actions

Alarm Output - This setting is the alarm output interface linked to motion detection alarm.

Note: When an alarm is reported, the camera triggers alarm output so as to trigger actions by a third-party device.

Record Video to SD Card - With Record Video to SD Card selected, the camera will automatically upload video to the microSD card when an alarm is triggered.

Note: This option is only available if the camera has a microSD card installed.

Upload to FTP - With Upload to FTP selected, the camera will automatically upload snapshots to the specified FTP server when an alarm is triggered.

Note: Make sure you have completed FTP and Snapshot before using this function.

Trigger E-mail - With Trigger E-mail selected, the camera will automatically send snapshots to the specified E-mail address when an alarm is triggered.

Note: Make sure you have completed E-Mail setup before using this function.

Snapshot to SD Card - With Snapshot to SD Card selected, the camera will automatically upload snapshots to the microSD card when an alarm is triggered.

Note: This option is only available if the camera has a microSD card installed.

Enable Schedule

Select the check box and set the start and end times during which motion detection alarm is enabled. You can directly drag the mouse to draw a plan and click Edit to edit time periods in the table. The camera reports alarms during the specified period(s) only. You can select from Monday to Sunday and set four periods for each day.

Save

Alarm Input

The screenshot shows the 'Alarm Input' configuration page. The left sidebar contains navigation menus for 'Basic Camera Settings', 'Network Settings', 'Streaming Settings', 'Picture Settings', 'Event Settings', 'Alarms', 'Storage Settings', 'Security Settings', and 'Maintenance'. The main content area is divided into 'Motion Detection' and 'Alarm Input' tabs. Under 'Alarm Input', there are fields for 'Select Alarm' (Alarm Input 1), 'Alarm Name' (1), 'Alarm ID', and 'Alarm Type' (N.O.). Below these are radio buttons for 'Alarm Input' (On/Off). The 'Trigger Actions' section includes checkboxes for 'Alarm Output', 'Record Video to SD Card', 'Upload to FTP', 'Trigger E-mail', and 'Snapshot to SD Card'. The 'Enable Schedule' section has checkboxes for 'Armed' and 'Unarmed', and an 'Edit' button. A calendar grid shows days of the week (Mon-Sun) and hours (0-24). A 'Save' button is at the bottom.

To configure Alarm Input:

1. **Select Alarm, Alarm Name and Alarm ID.**
2. Select **N.O.** or **N.C.** according to the type of the third-party alarm input device (For example, if the third-party alarm input device is normally open, you need to select N.O. here) so that the camera can receive alarm information.
3. Set actions to be triggered by an input alarm and the plan. For the detailed steps, see the descriptions of triggered actions in Configuring Motion Detection Alarm.
4. **Save**

Alarm Output

After an alarm output is triggered by a motion detection alarm, audio alarm, or other third-party configured alarm, the camera can trigger an alarm output to a third-party device.

The screenshot shows the 'Alarm Output' configuration page. The sidebar on the left lists various settings categories. The main content area is divided into sections for 'Select Alarm', 'Alarm Name', 'Default Status', and 'Delay(s)'. Below these are options for 'Enable Schedule', 'Armed/Unarmed' status, and a 24-hour grid for scheduling. A 'Save' button is at the bottom.

To configure Alarm Output:

1. **Select Alarm** and the **Alarm Name**.
2. Select **N.O.** as the **Default Status** and set the **Delay**.
3. If desired, **Enable Schedule**. See the *Motion Detection* section for more information about the Alarm Schedule.
4. **Save**

Caution Follow the power-on sequence for alarm output third-party devices and cameras carefully to avoid damaging camera components.

Check that the alarm Status is set to **N.O.** (default setting), and that the camera and the alarm output device are powered off.

After completing the connection, power on the alarm output device first, and then power on the camera.

STORAGE SETTINGS

Storage

OpenEye IP cameras include an integrated microSD™ card (Memory Card) slot that can be used to record video or images. The card slot is compatible with a microSD™ card up to 512GB.

The screenshot shows the 'Storage' settings page. On the left is a sidebar with menu items: Basic Camera Settings, Network Settings, Streaming Settings, Picture Settings, Event Settings, Storage Settings (highlighted), Storage, JPEG Download, Recording Download, Security Settings, and Maintenance. The main content area is titled 'Storage' and contains the following fields and options:

- Storage Medium:** A dropdown menu set to 'Memory Card' and a 'Format' checkbox (unchecked) with the text 'Enable' next to it.
- Storage Medium Status:** 'No card'
- Total Capacity:** '0 MB, Free Space 0 MB.'
- Allocate Capacity:** Two input fields: 'Video(MB)' and 'Common Snapshot(MB)', both containing the value '0'. A note to the right says '(The remaining capacity is used for image storage.)'
- Video Storage Info:** A section with three radio buttons for 'Storage Policy': 'Manual Storage', 'Planned Storage', and 'Off' (which is selected). Below it are two radio buttons for 'When Storage Full': 'Overwrite' and 'Stop' (which is selected). At the bottom of this section is an input field for 'Post-Record(s)' containing the value '60'.
- Save:** A button at the bottom of the settings area.

Note - Formatting the microSD card causes the camera to restart

Note - Camera date and time must be synced with system or server to insure accurate recording timestamps

Format

To format the memory card, check **Enable** and to confirm the operation. The system will restart when the format is completed.

Allocate Capacity

Video (MB) – Enter the amount of storage space to be allocated only to video recordings.

Common Snapshot (MB) – This is the remaining storage after video recordings which will be used to store snapshot images.

Video Storage Info

Storage Policy

Manual Storage – records video to the SD card continuously.

Planned Storage – camera records video to the memory card during the specified periods. (shown below)

Off – No recorded video will be saved to the SD card.

When Storage Full

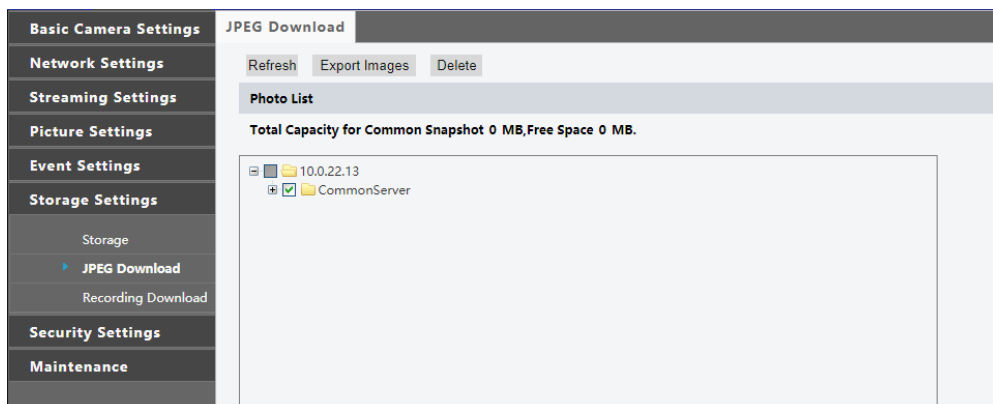
Overwrite – When the SD card is full, new data will begin overwriting oldest data.

Stop – When the SD card is full, video recording will stop writing to the SD card.

Post-Record(s) – For alarm-triggered recording; this is the length of time (seconds) that recording continues after the end of the alarm. Enter an integer range of [30–1800].

Save

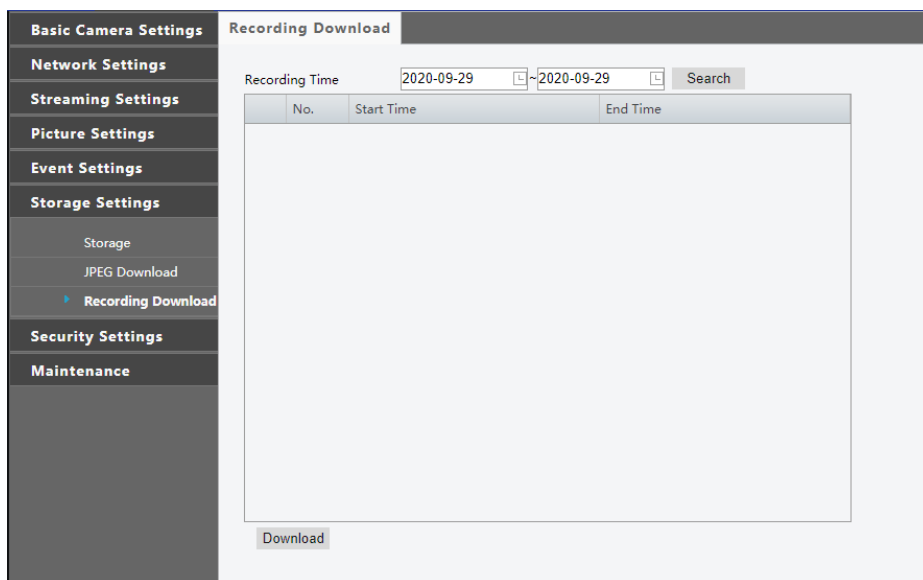
JPEG Download



Use Export Images to download snapshots taken by the camera. Refresh the list to update Photo List or Delete to delete images from the selected folder.

Recording Download

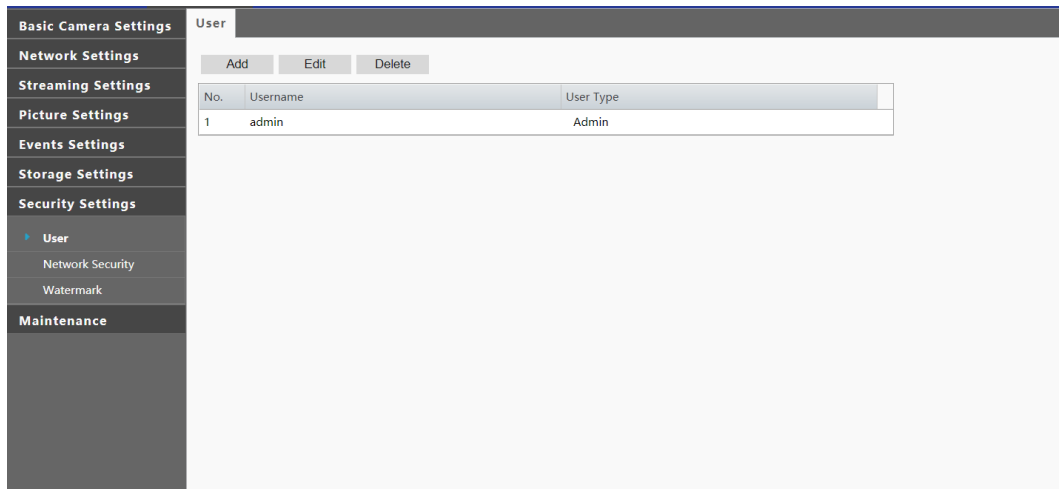
Recording download page allows you to search a selected date range for video and snapshots recorded to the microSD card.



1. Search for video within a specified period. The results will be shown in a list below.
2. Select your video and click **Download**.

SECURITY SETTINGS

User



There are two types of users:

Administrator – referred to as “admin” in this manual. The default name of the administrator is **admin**, which cannot be modified. Admin has full permission and can manage all users and devices. Only one admin user is allowed.

Common User – referred to as “user” in this manual. User only has permission to play live and recorded video.

Up to 20 common users are allowed.

Add

Username and passwords are limited to 32 characters with no spaces permitted. There is a maximum of twenty user accounts.

1. Type the new **Username** and **User Type**.
2. Type a **Password**, and then confirm the password.
3. **Save**

Edit

1. Select the **Username** on the **User list**.
2. Click **Edit**.
3. Modify the password in the resulting window.
4. **Save**

Delete

1. Select the **Username** on the **User list**.
2. Click **Delete** to remove the user.
3. Click **OK** in the confirmation window.

Network Security

You can use the Network Security tab to set a secure channel for data transmission.

| No. | IP Address |
|-----|------------|
| | |
| | |
| | |
| | |
| | |

To configure Network Security:

1. Enable HTTPS by selecting **On** or click **Browse** to upload your custom **SSL certificate** if desired.
2. **Save**

RTSP and HTTP Authentication

Use the **Authentication** dropdown menus to select the appropriate mode, and then click **Save**.

IP Address Filtering

IP Address filtering allows you to forbid access from specified IP addresses to your camera.

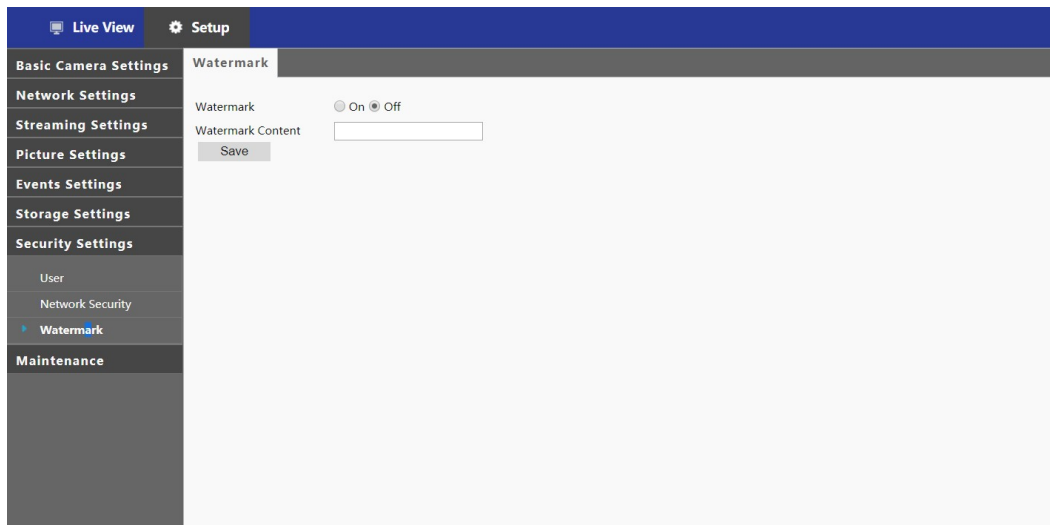
1. Select **On**.
2. Select a **Filtering Mode**, and then click the **+** symbol to add the desired IP addresses to the list.
3. **Save**



Note If the Filtering Mode is set to **Whitelist**, only the specified IP addresses are allowed to access the camera. If the Filtering Mode is set to **Deny Access**, the specified IP addresses are denied access. Up to 32 IP addresses can be added to the list.

Watermark

Use the Video Watermark to encrypt the camera image and protect the video from being deleted or modified.

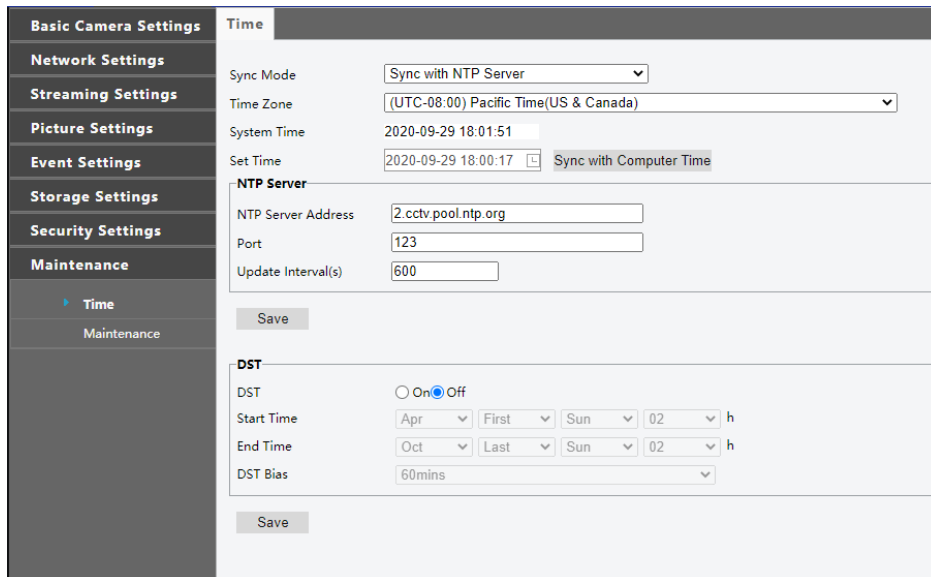


The screenshot shows the 'Watermark' settings page. On the left is a navigation menu with categories: Basic Camera Settings, Network Settings, Streaming Settings, Picture Settings, Events Settings, Storage Settings, Security Settings, User, Network Security, Watermark (selected), and Maintenance. The main content area has a 'Watermark' section with a radio button for 'On' (selected) and 'Off'. Below it is a text input field for 'Watermark Content' and a 'Save' button.

1. Select **On** to enable watermark, and input **Watermark Content**.
2. **Save**

MAINTENANCE

Time



The screenshot shows the 'Time' settings page. The left navigation menu includes: Basic Camera Settings, Network Settings, Streaming Settings, Picture Settings, Event Settings, Storage Settings, Security Settings, Maintenance, Time (selected), and Maintenance. The main content area has a 'Time' section with a dropdown for 'Sync Mode' (set to 'Sync with NTP Server'), a dropdown for 'Time Zone' (set to '(UTC-08:00) Pacific Time(US & Canada)'), a text input for 'System Time' (2020-09-29 18:01:51), and a text input for 'Set Time' (2020-09-29 18:00:17) with a 'Sync with Computer Time' button. Below this is an 'NTP Server' section with inputs for 'NTP Server Address' (2.cctv.pool.ntp.org), 'Port' (123), and 'Update Interval(s)' (600), followed by a 'Save' button. The 'DST' section has radio buttons for 'On' and 'Off' (selected), and dropdowns for 'Start Time' (Apr, First, Sun, 02 h), 'End Time' (Oct, Last, Sun, 02 h), and 'DST Bias' (60mins), followed by a 'Save' button.

By default, the time setting **Sync Mode** will be set to **Sync with NTP Server**.

Manually Setting or Synchronizing the System Time

1. Select a **Sync Mode**.
2. Set the correct **Time Zone** and **System Time**. You may also click **Sync with Computer Time** to synchronize the time settings of your camera with that of your PC.
3. **Save**

Synchronizing with the NTP Server

1. Set **Sync Mode** to **Sync with NTP Server**, and then set the **NTP Server Address**, **Port** and **Update Interval(s)**.
2. Click **Save**. The camera will periodically synchronize time with the NTP server.

Setting the DST

1. Select **On** for **DST**, set the **Start Time**, **End Time**, and **DST Bias**.
2. **Save**

Maintenance

| | |
|------------------------------|---|
| Basic Camera Settings | Maintenance |
| Network Settings | Software Upgrade |
| Streaming Settings | Local Upgrade <input type="text"/> <input type="button" value="Browse..."/> <input type="button" value="Upgrade"/> |
| Picture Settings | Config Management |
| Event Settings | <input type="button" value="Default"/> <input type="checkbox"/> Restore all settings to defaults without keeping current network and user settings. |
| Storage Settings | Importing <input type="text"/> <input type="button" value="Browse..."/> <input type="button" value="Import"/> |
| Security Settings | Exporting <input type="button" value="Export"/> |
| Maintenance | Diagnosis Info |
| Time | Export Diagnosis Info <input type="button" value="Export"/> |
| ▶ Maintenance | <input checked="" type="checkbox"/> Collect Image Debugging Info |
| | Device Restart |
| | <input type="button" value="Restart"/> Restart device |

Software Upgrade

To update your camera software, click **Browse**, select the software file, click **Open**, and then click **Upgrade**.



Note The software file must be a .zip file.

Device Restart

This will restart your camera.

Config Management

1. To import configurations that you have backed up, click **Browse**, select the configuration file, and then click **Import**.
2. To export current system configurations, click **Export**.
3. To restore default configurations, click **Default** and then confirm the operation. The device will restart and restore the default configurations. Clicking **Default** with the check box selected will default all camera and camera network settings.

Diagnosis Info

Diagnostic Information includes logs and system configuration. You can export diagnostic information to your PC.



Note Diagnostic information is exported to the local folder as a compressed file. You will need to decompress the file, and then open the file using a text editor.

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