

**OpenEye<sup>®</sup>**

**2MP / 4MP MINI IP  
DOME CAMERA  
USER MANUAL**



MODELS:  
OE-C7032-WR / OE-C7034-WR

OE-C7032-WR / OE-C7034-WR Mini IP Dome Camera  
User Manual

Manual Edition 35298AE– FEBRUARY 2021

©2021, OPENEYE  
All Rights Reserved.

No part of this documentation may be reproduced in any means, electronic or mechanical, for any purpose, except as expressed in the Software License Agreement. OpenEye shall not be liable for technical or editorial errors or omissions contained herein. The information in this document is subject to change without notice.

The information in this publication is provided “as is” without warranty of any kind. The entire risk arising out of the use of this information remains with recipient. In no event shall OPENEYE be liable for any direct, consequential, incidental, special, punitive, or other damages whatsoever (including without limitation, damages for loss of business profits, business interruption or loss of business information), even if OPENEYE has been advised of the possibility of such damages and whether in an action or contract or tort, including negligence.

This documentation is copyrighted. All other rights are reserved to OPENEYE. OPENEYE, and OpenEye, are registered trademarks of OPENEYE in the United States and elsewhere; Windows, and Windows XP Embedded are registered trademarks of Microsoft Corporation. All other brand and product names are trademarks or registered trademarks of the respective owners.

OPENEYE  
Liberty Lake, WA • U.S.A.

---

## 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 ensure 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 ~ 140 °F (-35 ~ 60 °C)
- Avoid installing in humid or dusty places. The relative humidity must be below 90%.
- 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.

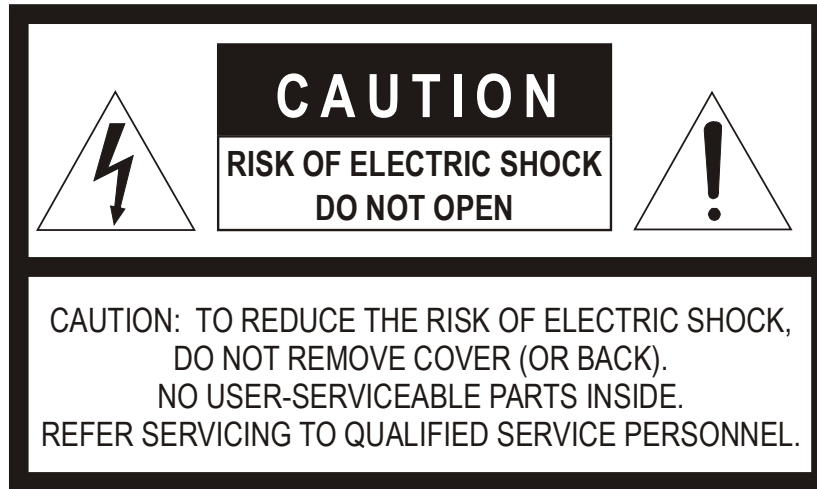
DO NOT OPEN THE CABINET.

REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

---

**Caution**

---



# TABLE OF CONTENTS

<b>Introduction .....</b>	<b>7</b>
Overview .....	7
Product Features .....	7
<b>Getting Started .....</b>	<b>8</b>
Box Contents .....	8
Camera Overview .....	9
Camera Dimensions .....	9
Connections .....	10
<b>NETWORK CAMERA MANAGER.....</b>	<b>11</b>
Launching Network Camera Manager.....	11
Finding Network Devices.....	11
Username and Password .....	12
Viewing a Network Camera .....	12
Live View .....	13
Setup & Configuration.....	14
Basic Camera Settings .....	14
Network Settings .....	15
DHCP IP Address .....	15
IPv6 Address Configuration .....	15
Port Mapping.....	17
Streaming Settings .....	20
Picture Settings .....	26
Scenes .....	26
Image Enhancement.....	26
<b>White Balance</b> .....	29
Advanced .....	29
Events Settings.....	32
Motion Detection .....	32
Audio Detection (OE-C7034-WR only) .....	33
Alarm Output (OE-C7034-WR only).....	36
Storage Settings .....	37
Security Settings.....	40
Add User .....	40
Edit User .....	40
Delete User .....	40
Maintenance .....	43
Software Upgrade .....	44
Device Restart.....	44
Config Management.....	44
Diagnosis Info .....	44

# INTRODUCTION

## OVERVIEW

---

The OE-C7032-WR and OE-C7034-WR are rugged outdoor IP dome cameras equipped with a 2MP or 4MP 2.8mm lens that provides crisp and clear images. These cameras include WDR and True Day/Night for improved low light performance, and adaptive IR technology to prevent overexposure of objects close to the camera.

Network throughput and storage requirements are reduced thanks to H.264 smart encoding technology which dynamically compresses the cameras video to reduce its bitrate. Both models include a paintable snap on cover that allows you to match the color of the dome to the surrounding environment without the risk of damaging the camera. Both camera models are IP67 rated and function down to -31°F making them a perfect fit for extreme weather installations. In addition, the OE-C7032-WR and OE-C7034-WR are IK10 rated and can be fully powered over PoE, reducing installation labor and giving you peace of mind in vandalism prone installation locations.

All OpenEye IP cameras are fully ONVIF™ compliant and are compatible with the OpenEye Web Services platform, allowing multiple users to view high quality images and perform remote setup using a web browser.

## PRODUCT FEATURES

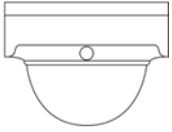
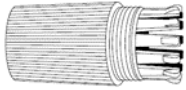
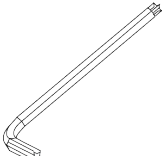
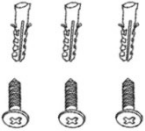


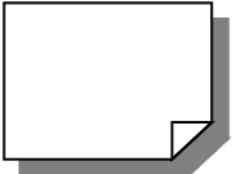
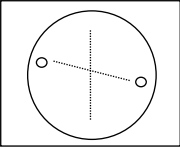
- Maximum Resolution
  - 2MP - OE-C7032-WR
  - 4MP - OE-C7034-WR
- IP67 Outdoor Rating
- True Day / Night
- True Wide Dynamic Range
- H.264 / H.265 / MJPEG
- Smart Encoding
- IK10 Vandal Resistance
- ONVIF™ Profile S compliant
- Paintable snap on cover

# 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>Mini IP Dome Camera</p>	 <p>Waterproof Cable Connector</p>
 <p>Torx Tool</p>	 <p>Screws and Anchors x3</p>
 <p>Paintable Housing</p>	 <p>Desiccant Packet</p>
 <p>Quick Start Guide</p>	 <p>Mounting Template</p>

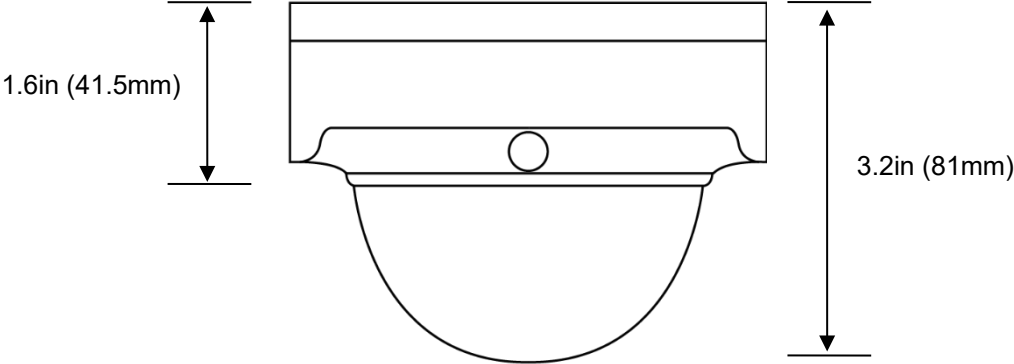


# CAMERA OVERVIEW

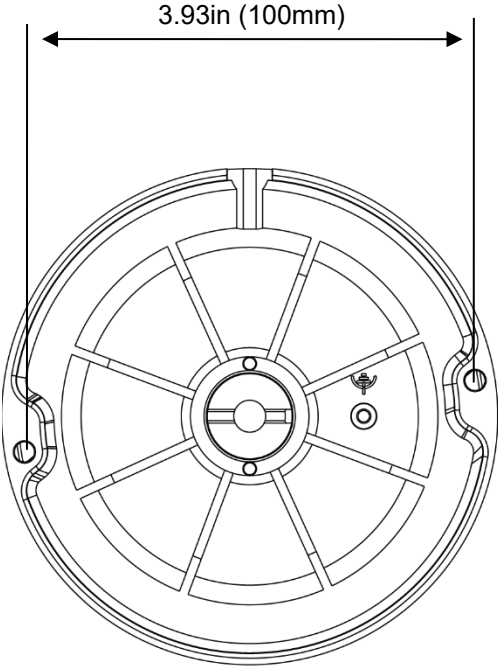
---

## CAMERA DIMENSIONS

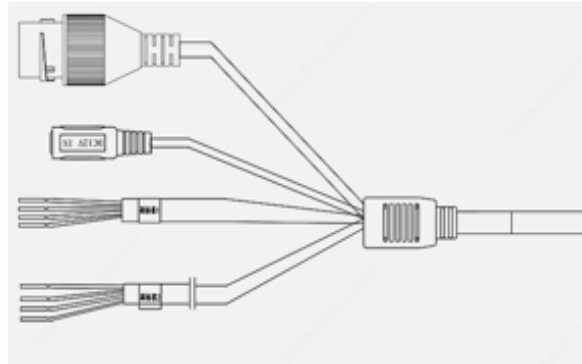
### Side



### Bottom

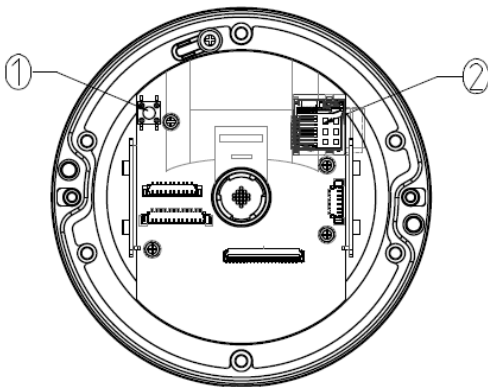


## CONNECTIONS



Pin	Connection	Definition	
1	RJ-45	For network and PoE connections	
2	Power (12vDC)	Power connection	
3*	Audio I/O	Green	Audio In L
		Brown	Audio In R
		Gray	Audio Out
		Purple	Ground
4*	Audio I/O	Blue	Ground
		Orange	Alarm Input
		White	Alarm Out -
		Yellow	Alarm Out +

\*OE-C7034-WR only. Only one audio channel can be active at a time.



1	Reset	<p><b>To restore the camera to factory defaults:</b></p> <ol style="list-style-type: none"> <li>1. Disconnect power for 30 seconds.</li> <li>2. Reconnect power and wait 30 seconds.</li> <li>3. Press the reset button with a proper tool for 20 seconds.</li> </ol>
2	MicroSD Card Slot	<p>Supports up to 512GB microSD card for Edge storage.</p> <p><b>Do not add or remove the microSD card when the camera is powered on.</b></p>

# 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](http://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.

The screenshot shows the Network Camera Manager application window. At the top, it says "NETWORK CAMERA MANAGER" and "Version: 2.3.0.92". Below this is a table with columns: Model, Name, IP Address, MAC, Web Page, and Firmware. The table contains four rows of device information. Below the table are search filters: "Model Filter (All)", "All Networks", "Devices Found: 4", "Find MAC", "Find", and "ONVIF Detection". A "Refresh" button is also present. At the bottom, there are four panels: "Camera Credentials" (with fields for username and password), "Network Configuration" (with fields for IP Address, Subnet, Gateway, and DNS, and a "DHCP" checkbox), "Firmware Update" (with a "Get Firmware" button and "Browse" and "Apply" buttons), and "Camera Settings" (with "System" and "Video" buttons).

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	<a href="#">Load</a>	
OE-C6123-W2	OE-C6123-W2	192.168.51.16	00:D0:89:17:22:8B	<a href="#">Load</a>	
OE-C7032-WR	OE-C7032-WR	192.168.51.13	4C:91:7A:67:65:B9	<a href="#">Load</a>	
OE-C7088-AWR	OE-C7088-AWR	192.168.51.14	E4:F1:4C:0C:57:57	<a href="#">Load</a>	

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.
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 a minimum of 9 characters
- Accepted characters: A-Z, a-z, 0-9, all special characters are allowed.

**Change Password**

Username: admin

Password:

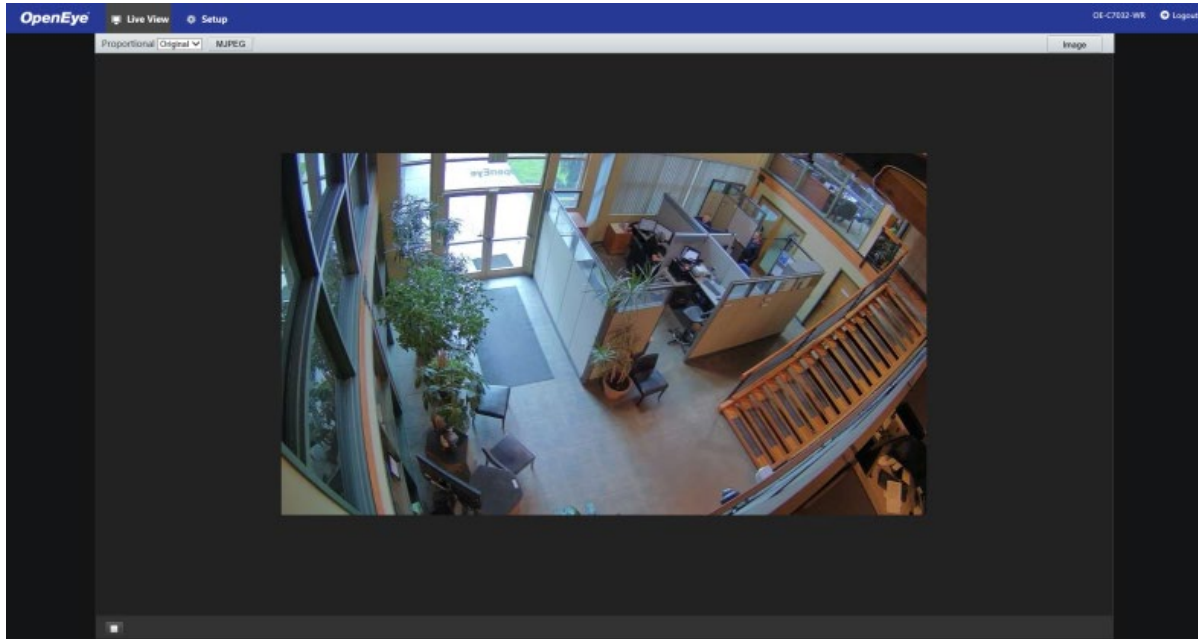
9 to 32 characters including at least two elements of the following three: digits, letters, and special characters

Weak Medium Strong

Confirm:

OK

# LIVE VIEW



**Note** Live view is broadcast in MJPEG pass-through. Stream settings will be broadcast to your recording device according to the selected Codec type.

**Setup** – View additional camera settings.

**Proportional** – Dropdown menu with Live View image options including:

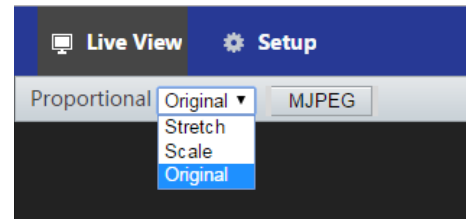
**Stretch:** Fit the camera image to the entire viewing window without scaling the image proportionately to the original view.

**Scale:** Fit the camera image to the entire viewing window, including scaling the image proportionately to the original view.

**Original:** The camera image will fit in the viewing window in accordance with the default image resolution.

**Image** – Shortcut to camera Image Setup menu.

**Logout** – Log out of the currently displayed camera.



# 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.

The screenshot shows the OpenEye camera setup interface. At the top, there are tabs for 'Live View' and 'Setup'. Under 'Setup', there is a 'Basic Camera Settings' menu with sub-items: 'Basic Info', 'Image', 'Video', 'Network', and 'Time'. Below these are other settings categories: 'Network Settings', 'Streaming Settings', 'Picture Settings', 'Events Settings', 'Storage Settings', 'Security Settings', and 'Maintenance'. The 'Basic Info' tab is selected, displaying a table of camera information:

Basic	
Product Model	OE-C7032-WR
Firmware Version	IPC_G6102-B5013P10D1611C21
Hardware Version	A
Boot Version	V3.7
Product Bar Code	210235T3UY3173000002
Network	10.0.22.166/255.255.252.0/10.0.23.254
MAC Address	48:ea:63:4b:bd:e8

Status	
Device Time	2017/4/14 12:42:40
Operation Time	15 Day(s) 22 Hour(s) 33 Minute(s)
Edge Storage	No card

Below the status table is a 'Refresh' button.

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

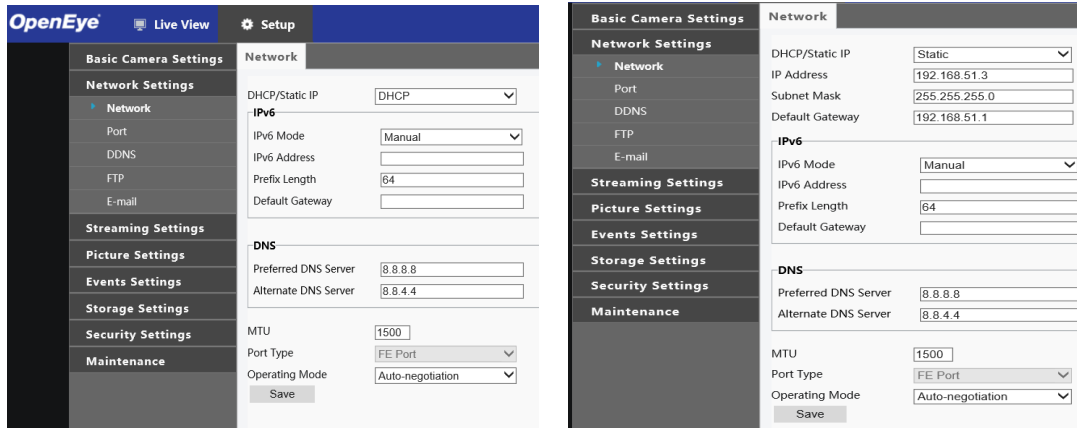
## Network

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.



### Static IP Address

To set up a new static IP address:

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

### IPv6 Address Configuration

1. Enter the **IPv6 address**, set the **prefix length** and **default gateway**.  
\*Note - The IP address must be unique on the network.
2. **Save**

### PPPoE

1. If the camera is connected to the network through Point to Point over Ethernet (PPPoE), you need to select PPPoE as the IP obtainment mode.
2. Select **PPPoE** from the Obtain IP Address drop-down list.
3. Enter the username and password provided by your internet Service Provider (ISP).
4. Click **Save**.

### DNS

Set your preferred DNS and alternate DNS server.

## Port

The screenshot shows the 'Port' configuration page in the OpenEye interface. The sidebar on the left contains categories: Basic Camera Settings, Network Settings (with sub-items: Network, DNS, Port, DDNS, FTP, E-mail), Streaming Settings, Picture Settings, Events Settings, Storage Settings, Security Settings, and Maintenance. The main content area is titled 'Port' and includes:

- Input fields for HTTP Port (80), HTTPS Port (443), and RTSP Port (554).
- A note: "Note: Modifying the RTSP or server port number will cause the device to restart." followed by a 'Save' button.
- Port Mapping options:  Enable and  Disable.
- Mapping Type dropdown menu set to 'Automatic'.
- A table with columns: Port Type, External Port, External IP, and Status.
 

Port Type	External Port	External IP	Status
HTTP	80	0.0.0.0	Inactive
RTSP	554	0.0.0.0	Inactive
Server	81	0.0.0.0	Inactive
- A 'Save' button at the bottom of the table.

**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:

- Check the Port-Mapping **Enable** checkbox.
- Use the **Mapping Type** dropdown menu to select a type.
- 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.

**Save**

## DDNS

**OpenEye** Live View Setup

**Basic Camera Settings** **DDNS**

**Network Settings**

Network

Port

DDNS

FTP

E-mail

**Streaming Settings**

**Picture Settings**

**Events Settings**

**Storage Settings**

**Security Settings**

**Maintenance**

DDNS Service  On  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.

No.	Naming Element
1	None
2	
3	
4	
5	

### To configure FTP:

- Set the **IP address** and **port** 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).

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

- a. **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.

**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.

The screenshot shows the 'OpenEye' camera setup interface. The 'Setup' tab is active, and the 'E-mail' configuration page is displayed. The interface includes a sidebar with various settings categories and a main configuration area. The 'E-mail' section is divided into 'Sender' and 'Recipient' information. The 'Sender' section includes fields for Name, Address, SMTP Server, SMTP Port (set to 25), TLS/SSL (set to Off), Snapshot Interval (set to 2), Attach Image (checked), and Server Authentication (set to On). The 'Recipient' section includes fields for Name1, Address1, Name2, Address2, Name3, and Address3. A 'Save' button is located at the bottom of the configuration area.

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 **Resolution, Video Compression, Frame Rate Bitrate Type, GOP, and Smart Encoding.**
- Enable and configure the **Sub-Stream** if desired.
- **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 15FPS 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 Smoothing increases the level of smoothing but may affect image quality.



**Note** In a poor network environment, you can enable smoothing to get more fluent 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, as well as streaming MJPEG over HTTP.

The stream URLs are as follows:

- `rtsp://<ip address>/jpeg`
- `rtsp://<ip address>/mpeg4`
- `rtsp://<ipaddress>/h264`
  - H.264 Stream 1
- `rtsp://<ipaddress>/h264_2`
  - H.264 Stream 2
- `rtsp://<ipaddress>/h264_3`
  - H.264 Stream 3
- `rtsp://<ipaddress>/h265`
  - H.265 Stream 1
- `rtsp://<ipaddress>/h265_2`
  - H.265 Stream 2
- `rtsp://<ipaddress>/h265_3`
  - H.265 Stream 3
- <http://<ipaddress>:8008>

**Note:** The MJPEG over HTTP stream is identified by a port number. The default port is 8008; this port can be configured in the cameras Network page.

## Snapshot

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

### To configure Snapshots:

- Use the dropdowns to select the desired **Resolution**, **Image Quality**, **Snapshot Interval**, and the **Number of Snapshots**.
- If you desire Scheduled Snapshots, select **Timed** Snapshot Mode, and designate an **Interval**.
- **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	<b>Schedule:</b> You need to set a snapshot time, e.g., 19:12:00, which means the camera takes a snapshot at 19:12:00. <b>Repeat:</b> 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.

## Audio (OE-C7034-WR only)

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

The screenshot shows the OpenEye camera web interface. The top navigation bar includes 'OpenEye', 'Live View', and 'Setup'. The left sidebar lists various settings categories: Basic Camera Settings, Network Settings, Streaming Settings, Video, Snapshot, Audio (highlighted), ROI, Media Stream, Picture Settings, Events Settings, Storage Settings, Security Settings, and Maintenance. The main content area is titled 'Audio' and contains the following settings:

- Audio Input:** Radio buttons for 'On' and 'Off'. 'Off' is selected.
- Access Mode:** Dropdown menu set to 'Line/Mic'.
- Input Gain:** Input field showing '128' with a range of '[0~255]'.
- Audio Compression:** Dropdown menu set to 'G.711U'.
- Sampling Rate(KHz):** Dropdown menu set to '8'.
- Noise Suppression:** Radio buttons for 'On' and 'Off'. 'Off' is selected.
- Audio L:** Dropdown menu set to 'Line' with an 'Enable' checkbox checked.
- Audio R:** Dropdown menu set to 'Line' with an 'Enable' checkbox unchecked.

A 'Save' button is located at the bottom of the settings panel.

### To configure Audio setup:

- Check the **Audio Input On** checkbox.
- Configure the Audio settings as desired.

### Save



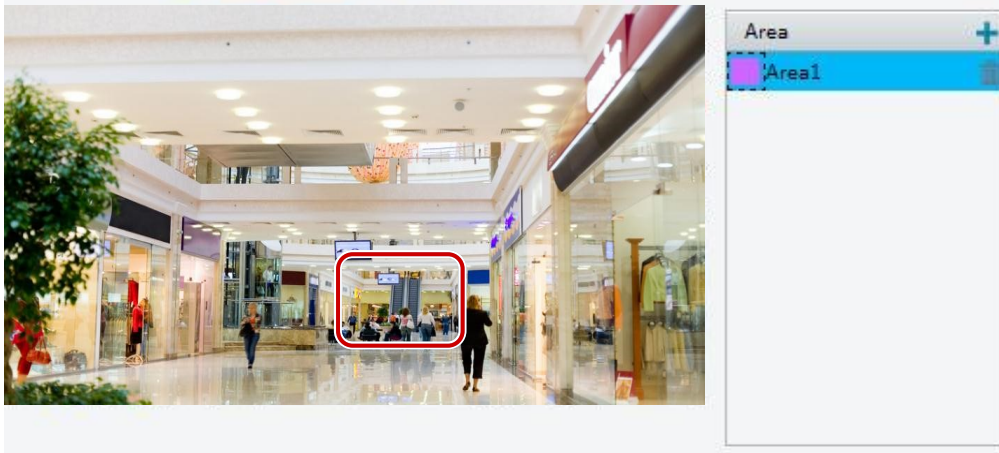
**Note** Only one Audio Channel can be active at a time. It is recommended to configure only channel 1. If the additional channel is needed, please contact customer support for advanced



Parameter	Description
<b>Audio Input</b>	No audio data will be encoded when <b>Off</b> is selected. <b>Note:</b> It is recommended to select <b>Off</b> if you do not need audio. This can improve device performance to some extent.
<b>Access Mode</b>	Line/Mic.
<b>Audio Compression</b>	Three options: G.711U, G.711A and ACC-LC. G.711U and G.711A support 8K sampling rate only, and ACC-LC supports 8K, 16K and 48K sampling rates.
<b>Input Gain</b>	Audio signal amplification for sampling. The greater the gain, the greater amplification.
<b>Noise Suppression</b>	Used to reduce noise in images. To enable noise suppression, select <b>On</b> .
<b>Audio L / Audio R</b>	Audio output channel(s). To enable audio output, select <b>Enable</b> .

## 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:



Click , and then drag the mouse to cover the intended part of the images. To delete, select the area and then click .

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.

The screenshot shows the 'OpenEye' camera management interface. At the top, there are tabs for 'Live View' and 'Setup'. The 'Setup' tab is active, and a sidebar on the left lists various settings categories: Basic Camera Settings, Network Settings, Streaming Settings, Video, Snapshot, Audio, ROI, Media Stream (selected), Picture Settings, Events Settings, Storage Settings, Security Settings, and Maintenance. The main content area is titled 'Media Stream' and features a table with columns for Stream Profile, IP Address, Port, Protocol, and Persistent. Below the table, there are two sections: 'Main Stream' and 'Sub Stream'. Each section has input fields for 'Multicast Address' (set to 0.0.0.0) and 'Port' (set to 0). A 'Save' button is located at the bottom of the configuration area.



### To configure media streams:

- 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	+
----------------	------------	------	----------	------------	---

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

Check the **Enable Persistent** checkbox if you want the device to establish the media stream that you have just configured automatically upon each subsequent restart.

### Save

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

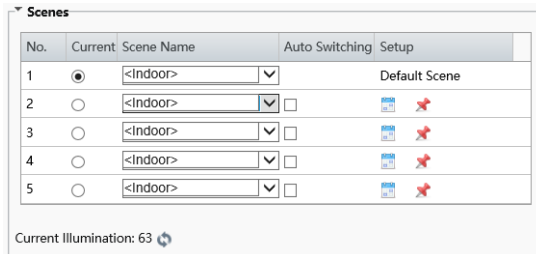
The Image tab allows you to configure the setting for the camera image as seen in Live View.

When adjusting your image settings, the changes will be saved automatically and will display in the camera image preview window.

## Scenes

Scene allows you to set the image parameters to achieve the desired image effects based on live video in different environments.

If auto-switching is enabled, the camera can switch to the scene automatically when the condition for switching to a non-default scene is met.



### To configure Scenes:

- Click the **Current** checkbox of the desired Scene.

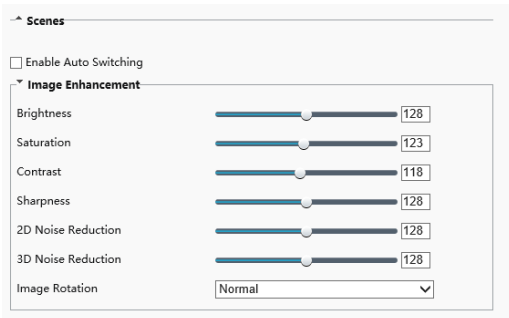
Select a **Scene Name** from the dropdown, or select **Custom** and enter one of the common options below.

Use the **Default Scene Pin** icon to set the desired Scene as default.

## 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.

**Exposure**

Exposure Mode: Automatic

Shutter(s): 1/100

Gain: 0

Slow Shutter:  On  Off

Slowest Shutter: 1/15

Compensation: 0

Metering Control: Center-Weighted Average Metering

Day/Night Mode:  Automatic  Day  Night

Day/Night Sensitivity: Medium

Day/Night Switching(s): 3

WDR: Automatic

WDR Level: 5

Suppress WDR Stripes:  Off  On

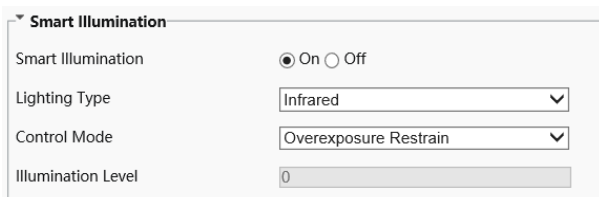
WDR Open Sensitivity: 5

WDR Close Sensitivity: 5

Parameter	Description
<b>Exposure Mode</b>	<ul style="list-style-type: none"> <li>• <b>Automatic:</b> The camera automatically adjusts exposure according to the environment.</li> <li>• <b>Custom:</b> The user sets exposure as needed.</li> <li>• <b>Indoor 50Hz:</b> Reduce stripes by limiting shutter frequency.</li> <li>• <b>Indoor 60Hz:</b> Reduce stripes by limiting shutter frequency.</li> <li>• <b>Manual:</b> Finetune image quality by setting shutter, gain and iris manually.</li> <li>• <b>Low Motion Blur:</b> Control the minimum shutter to reduce motion blur in faces captured in motion.</li> </ul>
<b>Shutter (s)</b>	<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><b>Note:</b></p> <ul style="list-style-type: none"> <li>• You can set a shutter speed when Exposure Mode is set to Manual or Shutter Priority.</li> <li>• If <b>Slow Shutter</b> is set to <b>Off</b>, the reciprocal of the shutter speed must be greater than the frame rate.</li> </ul>
<b>Gain</b>	<p>Control image signals so that the camera outputs standard video signals according to the light condition.</p> <p><b>Note:</b> You can set this parameter only when <b>Exposure Mode</b> is set to <b>Manual</b> or <b>Gain Priority</b>.</p>
<b>Slow Shutter</b>	Improves image brightness in low light conditions.
<b>Slowest Shutter</b>	<p>Set the slowest shutter speed that the camera can use during exposure.</p> <p><b>Note:</b> You can set this parameter only when <b>Slow Shutter</b> is set to <b>On</b>.</p>
<b>Compensation</b>	<p>Adjust the compensation value as required to achieve the desired effects.</p> <p><b>Note:</b> You can set this parameter only when <b>Exposure Mode</b> is not set to <b>Manual</b>.</p>
<b>Metering Control</b>	<p>Set the way the camera measures the intensity of light.</p> <ul style="list-style-type: none"> <li>• <b>Center-Weighted Average Metering:</b> Measure light mainly in the central part of images.</li> <li>• <b>Evaluative Metering:</b> Measure light in the customized area of images.</li> <li>• <b>Face Metering:</b> Adjust image quality in poor lighting conditions by controlling the brightness of captured face in Face scene.</li> </ul>

	<b>Note:</b> You can set this parameter only when <b>Exposure Mode</b> is not set to <b>Manual</b> .
<b>Day/Night Mode</b>	<b>Automatic:</b> 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. <b>Night:</b> The camera provides high-quality black and white images using the existing light <b>Day:</b> The camera provides high-quality color images using the existing light.
<b>Day/Night Sensitivity</b>	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. <b>Note:</b> You can set this parameter only when <b>Day/Night Mode</b> is set to <b>Automatic</b> .
<b>Day/Night Switching(s)</b>	Set the length of time before the camera switches between day mode and night mode after the conditions for switching are met. <b>Note:</b> You can set this parameter only when <b>Day/Night Mode</b> is set to <b>Automatic</b> .
<b>WDR</b>	Enable WDR to distinguish the bright and dark areas in the same image. <b>Note:</b> You can set this parameter only when <b>Exposure Mode</b> is neither <b>Customize</b> nor <b>Manual</b> and when <b>Image Stabilizer</b> is disabled.
<b>WDR Level</b>	After enabling the WDR function, you can improve the image by adjusting the WDR level. <b>Note:</b> 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.
<b>Suppress WDR Stripes</b>	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

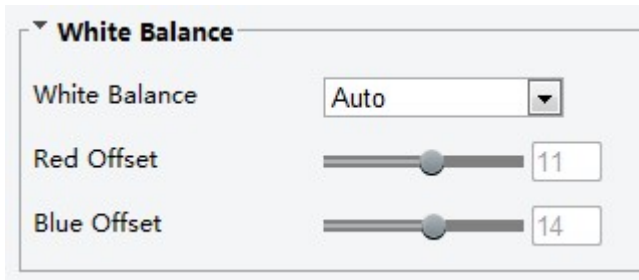
Illumination Level

Parameter	Description
<b>Lighting Type</b>	<ul style="list-style-type: none"> <li><b>Infrared:</b> The camera uses infrared light illumination.</li> </ul>
<b>Control Mode</b>	<ul style="list-style-type: none"> <li><b>Global Mode:</b> 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.</li> <li><b>Overexposure Restrain:</b> 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.</li> <li><b>Manual:</b> This mode allows you to manually control the intensity of IR illumination.</li> </ul>

<b>Illumination Level</b>	<p>Set the intensity level of the IR light.</p> <p>The greater the value, the higher the intensity. 0 means that the IR light is turned off.</p> <p><b>Note:</b> You can set this parameter only when <b>Control Mode</b> is set to <b>Manual</b>.</p>
---------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

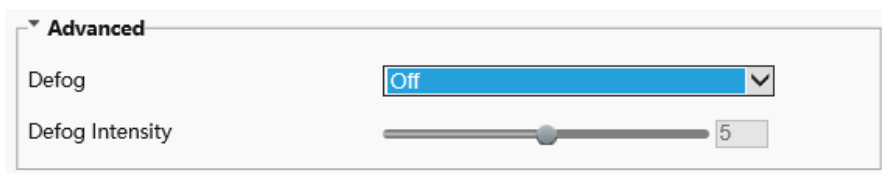
### White Balance

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.



Parameter	Description
<b>White Balance</b>	<p>Adjust the red or blue offset of the image:</p> <p><b>Auto/Auto2:</b> 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><b>Fine Tune:</b> Allow you to adjust the red and blue offset manually.</p> <p><b>Outdoor:</b> Suitable for outdoor environment with a relatively greater color temperature range.</p> <p><b>Locked:</b> Lock the current color temperature without change.</p> <p><b>Sodium Lamp:</b> The camera adjusts red and blue offset automatically according to the light condition (the color tends to be red).</p>
<b>Red Offset</b>	<p>Adjust the red offset manually.</p> <p><b>Note:</b> You can set this parameter only when <b>White Balance</b> is set to <b>Fine Tune</b>.</p>
<b>Blue Offset</b>	<p>Adjust the blue offset manually.</p> <p><b>Note:</b> You can set this parameter only when <b>White Balance</b> is set to <b>Fine Tune</b>.</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 8 on-screen displays (OSD) can be configured for the camera image.

Enable	No.	Overlay OSD Content	X-Axis	Y-Axis
<input type="checkbox"/>	1		<input type="text" value="2"/>	<input type="text" value="3"/>
<input type="checkbox"/>	2		<input type="text" value="75"/>	<input type="text" value="3"/>
<input type="checkbox"/>	3		<input type="text" value="2"/>	<input type="text" value="75"/>
<input type="checkbox"/>	4		<input type="text" value="0"/>	<input type="text" value="0"/>
<input type="checkbox"/>	5		<input type="text" value="0"/>	<input type="text" value="0"/>
<input type="checkbox"/>	6		<input type="text" value="0"/>	<input type="text" value="0"/>
<input type="checkbox"/>	7		<input type="text" value="0"/>	<input type="text" value="0"/>
<input type="checkbox"/>	8		<input type="text" value="0"/>	<input type="text" value="0"/>

**Display Style**

Effect:

Font Size:

Font Color:

Min. Margin:

Date Format:

Time Format:

h/H=12/24 Hour; tt=A.M. or P.M.; mm=Minute; ss=Second

### To add an on-screen display:

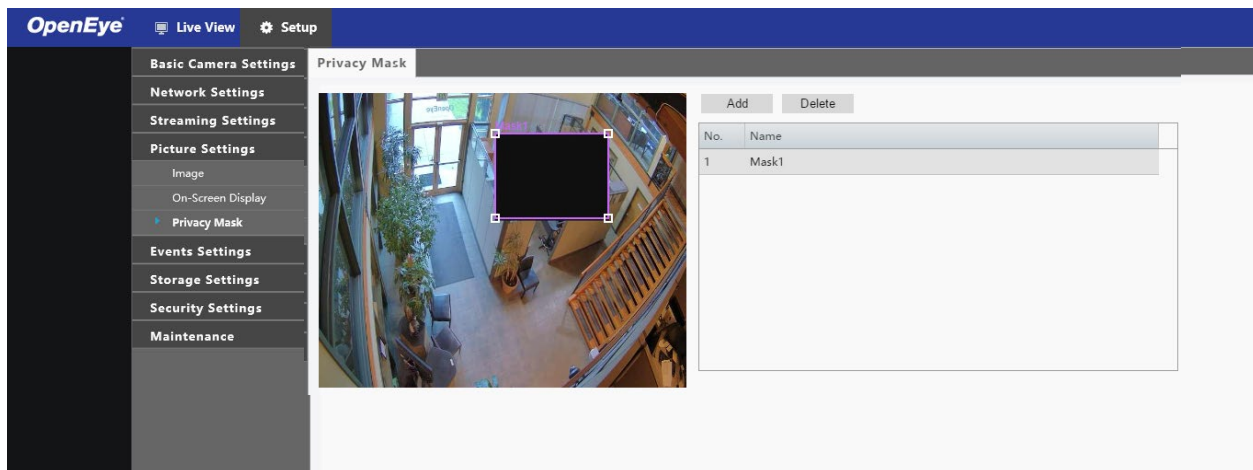
1. Select the position and content of the OSD.
  - a. **Position:** Click the desired box in the Live View area. After the cursor shape is changed, click and hold the button to move the box to the desired position. To set the position precisely, use the X and Y coordinates.
  - b. **Overlay OSD Content:** 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.



To **add** a privacy mask:

- Click **Add**.
- 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:

- Select the desired mask from the Privacy Mask list.
- 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.

The screenshot shows a web-based configuration interface for motion detection. It is divided into several sections:

- Detection Area:** Contains a camera image with a white detection box overlaid. To the right of the image are three sliders: 'Sensitivity' (ranging from Low to High), 'Object Size' (ranging from Small to Large), and 'Duration' (ranging from Short to Long).
- Alarm Parameters:** Contains two input fields: 'Suppress Alarm(s)' and 'Clear Alarm(s)', both with the value '5' entered.
- Trigger Actions:** Contains four checkboxes: 'Alarm Output 1', 'Upload to FTP', 'Recording', and 'Trigger E-mail', all of which are currently unchecked.
- Enable Schedule:** A checkbox labeled 'Enable Schedule' is checked. Below it are two radio buttons for 'Armed' (selected) and 'Unarmed', and an 'Edit' button. A calendar grid shows the days of the week (Mon-Sun) and hours (0-24). The grid is currently empty, indicating no specific schedule is set.
- Save:** A 'Save' button is located at the bottom left of the interface.

### 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**, **Object Size**, and **Duration** 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.

**Duration** – This determines how long the camera image must be changing before alarm considers 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.



- **Save**

## Trigger Actions

**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.*

**Alarm Output 1** - 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.*

**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.*

**Recording** - With Recording selected, the camera will automatically record video when an alarm is triggered.

*Note: Please set Post-Record(s) on the Storage Settings page first. Post-Record(s) specifies how long recording continues after the end of an alarm.*

**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.*

## Enable Plan

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

## Audio Detection (OE-C7034-WR only)

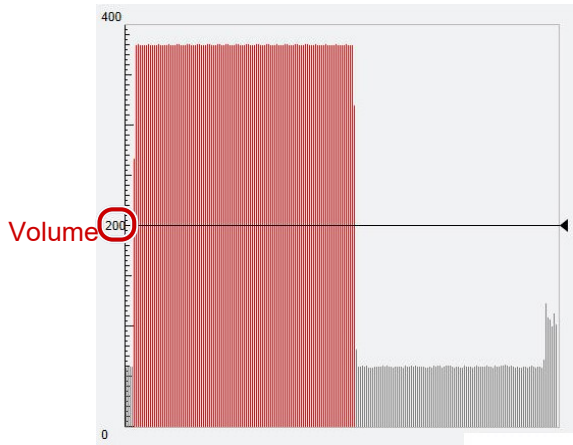
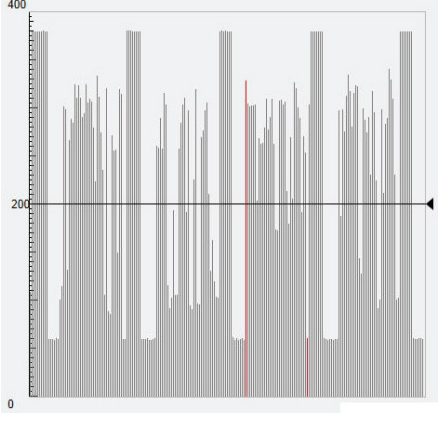
The camera can detect input audio signal for exceptions. When the rise or fall of volume exceeds the set limit, or when the input volume reaches the threshold, the camera reports an alarm and triggers the set actions. Ensure that an audio input device is correctly connected to the camera and audio input is turned on.

The screenshot shows the 'Audio Detection' configuration page. At the top, there are tabs for 'Motion Detection', 'Audio Detection', 'Alarm Input', and 'Alarm Output'. The 'Audio Detection' tab is active. On the left, there is a graph with a vertical axis from 0 to 400 and a horizontal line at 200. On the right, the 'Audio Detection' section has a radio button for 'On' (selected) and 'Off'. Below it is a 'Detection Type' dropdown menu set to 'Sudden Rise' and a 'Difference' input field set to '100'. The 'Trigger Actions' section has four checkboxes: 'Alarm Output 1', 'Upload to FTP', 'Recording', and 'Trigger E-mail'. Below that is the 'Enable Schedule' section, which has a checkbox for 'Enable Schedule' (unchecked), a legend for 'Armed' (blue) and 'Unarmed' (white), and a grid for scheduling. The grid has columns for hours 0-24 and rows for days of the week (Mon-Sun). The grid is currently empty, indicating no schedule is set.

## To configure Audio Detection:

- Select the **On** checkbox.
- Use the **Detection Type** dropdown to select a detection type, and then set the Difference.

- Select the **Trigger Actions** to occur once the audio detection alarm has been triggered. See the Motion Detection section for more information about the **Trigger Actions**. If desired, enable an **Audio Detection schedule**. See the *Motion Detection* section for more information about the Alarm Schedule. Save. Alarm Input (OE-C7034-WR only)

Parameter	Description
Detection Type	<ul style="list-style-type: none"> <li>• Sudden Rise: An alarm is reported when the rise of volume exceeds the difference.</li> <li>• Sudden Falls: An alarm is reported when the fall of volume exceeds the difference.</li> <li>• Sudden Change: An alarm is reported when the rise or fall of volume exceeds the difference.</li> <li>• Threshold: An alarm is reported when the volume exceeds a threshold.</li> </ul>
Difference	<ul style="list-style-type: none"> <li>• Threshold: After a volume is set as the threshold, an alarm is reported when the threshold is exceeded.</li> <li>• Difference: the difference between two volumes. When the rise or fall of volume exceeds the difference, an alarm is reported.</li> </ul> <p><b>Note:</b></p> <ul style="list-style-type: none"> <li>• <i>The scale in the audio detection area is used to measure sound volume.</i></li> <li>• <i>Audio detection results are shown in real time. The red part indicates the reported audio detection alarms.</i></li> </ul> 
Parameter	Description
	



**Note** The “difference” refers to the numerical difference between two volumes. The ‘threshold’ refers to a maximum numerical value that must be exceeded for the alarm to trigger.

**Note** - Audio Detection results are shown in real time. The red bars indicate the volume of the audio alarm has reached the threshold.

The camera can receive alarm information from a third-party device.

**Motion Detection** **Audio Detection** **Alarm Input** **Alarm Output**

Select Alarm: Alarm Input 1  
Alarm Name:   
Alarm ID:   
Alarm Type: N.O.  
Alarm Input:  On  Off

**Trigger Actions**  
 Alarm Output 1  Upload to FTP  Recording  Trigger E-mail

**Enable Schedule**  
 Armed  Unarmed

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mon																									
Tue																									
Wed																									
Thu																									
Fri																									
Sat																									
Sun																									

### To configure Alarm Input:

1. Select **alarm** and set the **alarm name**.
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 (OE-C7034-WR only)

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. It includes the following elements:

- Navigation tabs: Motion Detection, Audio Detection, Alarm Input, Alarm Output.
- Form fields:
  - Select Alarm: Alarm Output 1 (dropdown)
  - Alarm Name: (text input)
  - Default Status: N.O. (dropdown)
  - Delay(s): 1 (text input)
- Scheduling section:
  - Enable Schedule:  (checked)
  - Armed:  Unarmed:  Edit: (button)
  - Grid: 7 rows (Mon-Sun) and 24 columns (0-24). All cells are blue.
- Save: (button)

### To configure Alarm Input:

- Select the **Alarm** and the **Alarm Name**.
- Select **N.O.** as the default status and set the **Delay**.
- If desired, enable an **Alarm Input schedule**. See the *Motion Detection* section for more information about the Alarm Schedule.
- **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 SETTINGS

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 128GB.

**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

Storage Medium	<input type="text" value="Memory Card"/>	<input type="button" value="Format"/>	<input checked="" type="checkbox"/> Enable
Total Capacity 121860 MB, Free Space 121830 MB.			
<b>Allocate Capacity</b>			
Video(MB)	<input type="text" value="100000"/>	(The remaining capacity is used for image storage.)	
Common Snapshot(MB)	<input type="text" value="21860"/>		
<b>Video Storage Info</b>			
Storage Policy	<input type="radio"/> Manual Storage <input type="radio"/> Planned Storage <input checked="" type="radio"/> Off		
Stream	<input type="text" value="Main Stream"/>		
When Storage Full	<input checked="" type="radio"/> Overwrite <input type="radio"/> Stop		
Post-Record(s)	<input type="text" value="60"/>		
<input type="button" value="Save"/>			

### Format

To format the memory card, click **Format** and then click **OK** 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.

**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.

**Stream** – select which video stream should be recorded.

#### 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].

## Planned Storage

Storage Medium    Enable

Total Capacity 121860 MB, Free Space 121830 MB.

**Allocate Capacity**

Video(MB)  (The remaining capacity is used for image storage.)

Common Snapshot(MB)

**Video Storage Info**

Storage Policy  Manual Storage  Planned Storage  Off

Stream

When Storage Full  Overwrite  Stop

Post-Record(s)

**Plan**

Armed  Unarmed

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mon																									
Tue																									
Wed																									
Thu																									
Fri																									
Sat																									
Sun																									

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

Click **Edit** to open the schedule and add recording days and times

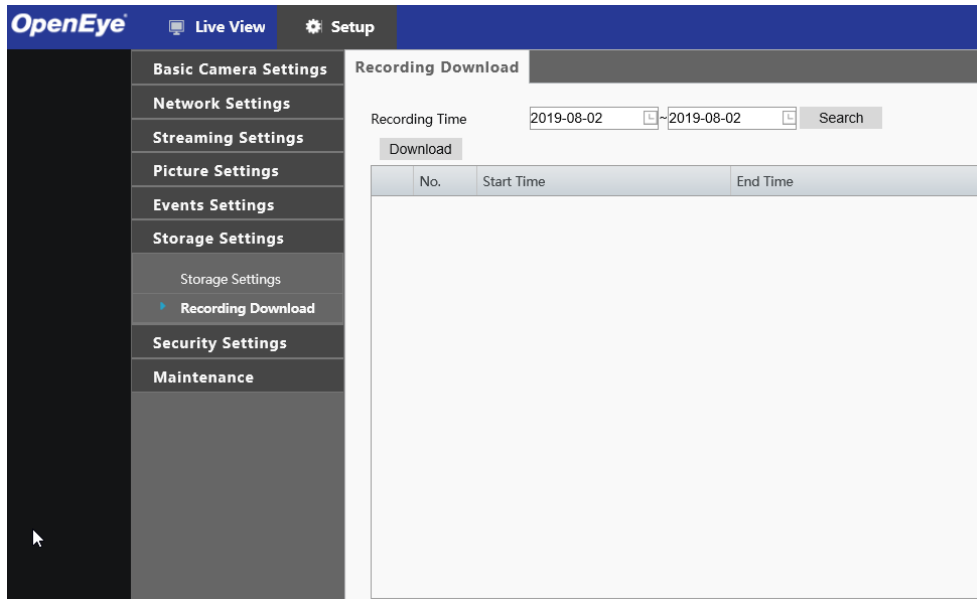
**Save**



**Note** Video recorded to the microSD card cannot be accessed through Video Management Software. Video recorded to the microSD card must be accessed and downloaded directly from the camera's web interface.

## RECORDING DOWNLOAD

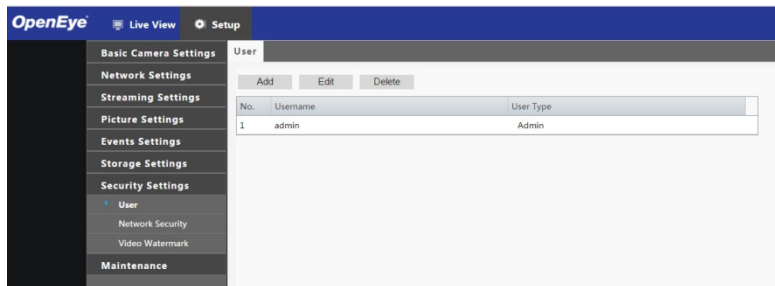
Recording download page allows you to search a selected date range for video and snapshots recorded to the microSD card.



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 User

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

- Type the new **Username** and **User Type**.
- Type a **Password**, and then confirm the password.
- **Save**.

### Edit User

- Select the user name on the **User list**.
- Click **Edit**.
- Modify the password in the resulting window.
- **Save**.

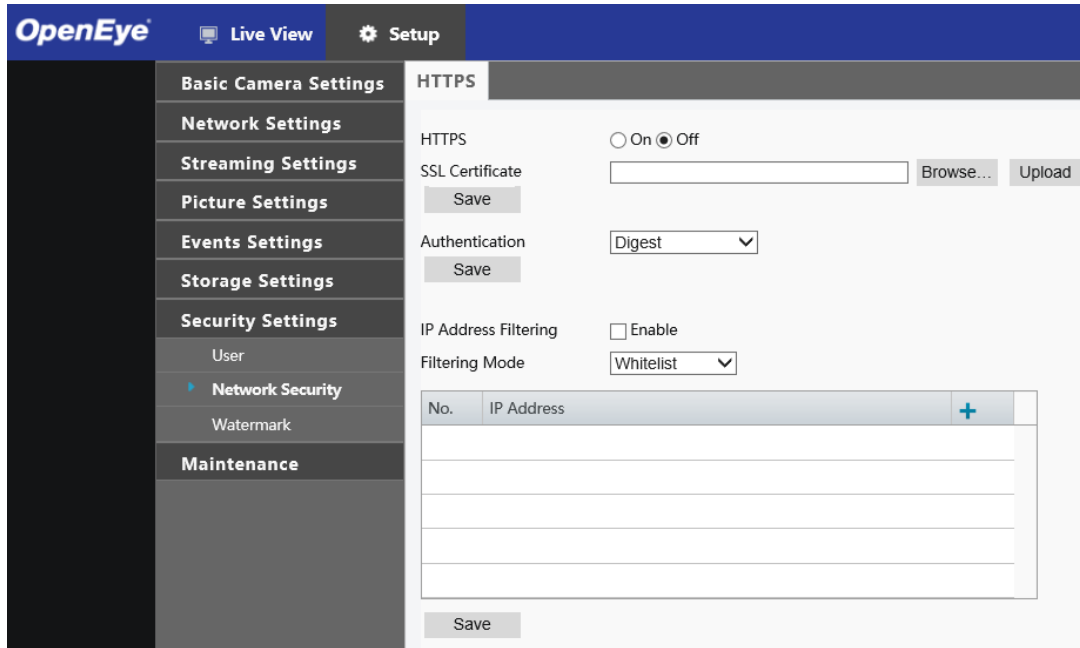
### Delete User

- Select the user name on the **User list**.
- Click **Delete** to remove the user.
- Click **OK** in the confirmation window.



# Network Security

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

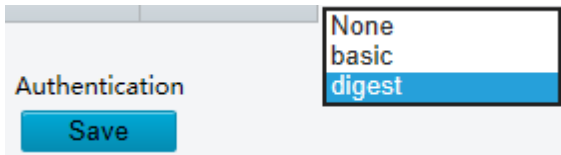


## To configure Network Security:

- Click **Network Settings**, and then click **Port**, and then enter the port number in the **HTTPS Port** box.
- Click **Save**.
- Click **Security Settings**, and then click **Network Security**.
- Enable HTTPS by selecting the **On** checkbox, or click **Browse** to upload your custom **SSL certificate** if desired.
- **Save**

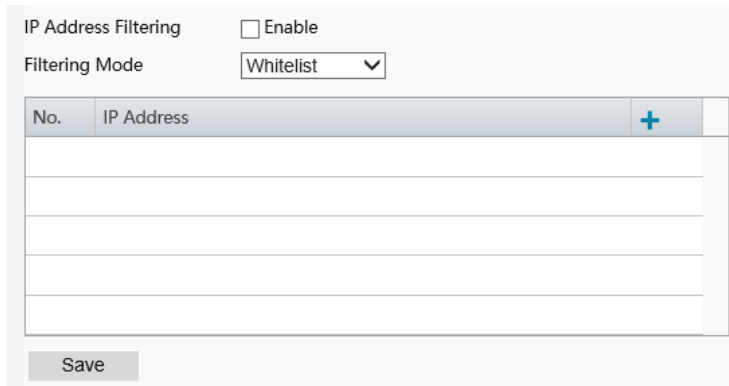
## Authentication

Use the **Authentication** dropdown menu 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.



The screenshot shows the IP Address Filtering configuration page. At the top, there is a section labeled "IP Address Filtering" with an "Enable" checkbox. Below it, the "Filtering Mode" is set to "Whitelist" via a dropdown menu. A table with two columns, "No." and "IP Address", is shown with a "+" button in the top right corner to add entries. The table currently contains no rows. At the bottom of the form is a "Save" button.

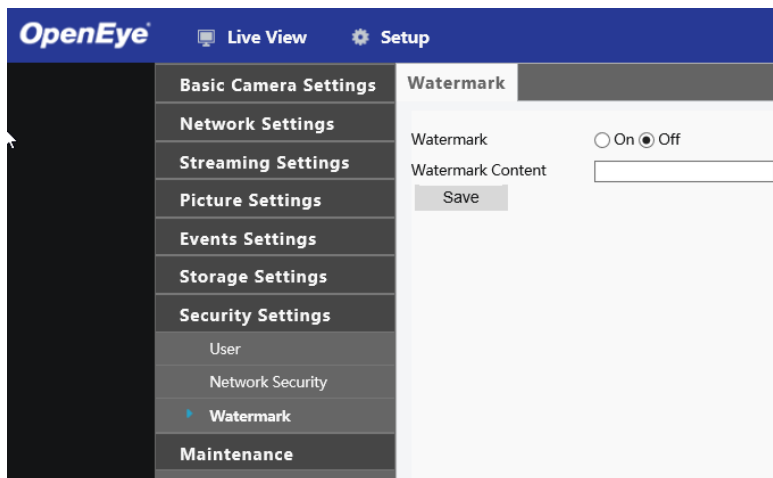
- Check the **Enable** checkbox.
- Select a **Filtering Mode**, and then click the **+** symbol to add the desired IP addresses to the list.



**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 OpenEye camera management interface. The top navigation bar includes "OpenEye", "Live View", and "Setup". A sidebar on the left lists various settings 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 is titled "Watermark" and contains a "Watermark" toggle set to "Off" (radio buttons for On and Off), a "Watermark Content" text input field, and a "Save" button.

Select **On** to enable watermark, and input watermark content.

**Save**

# MAINTENANCE

## Time

The screenshot shows the OpenEye camera's maintenance settings interface. The left sidebar contains a menu with categories: Basic Camera Settings, Network Settings, Streaming Settings, Picture Settings, Events Settings, Storage Settings, Security Settings, Maintenance, and Time. The 'Time' section is active, displaying the following settings:

- Sync Mode:** Sync with NTP Server (dropdown)
- Time Zone:** (UTC-08:00) Pacific Time(US & Canada) (dropdown)
- System Time:** 2019-07-24 11:26:41 (clock icon) Sync with Computer Time (checkbox)
- NTP Server:**
  - NTP Server Address:** 2.cctv.pool.ntp.org (text input)
  - Update interval(s):** 600 (text input)
- Save** button
- DST:**
  - Enable DST
  - Start Time:** Apr (month), First (week), Sun (day), 02 (hour) h
  - End Time:** Oct (month), Last (week), Sun (day), 02 (hour) h
  - DST Bias:** 60mins (dropdown)
- 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**

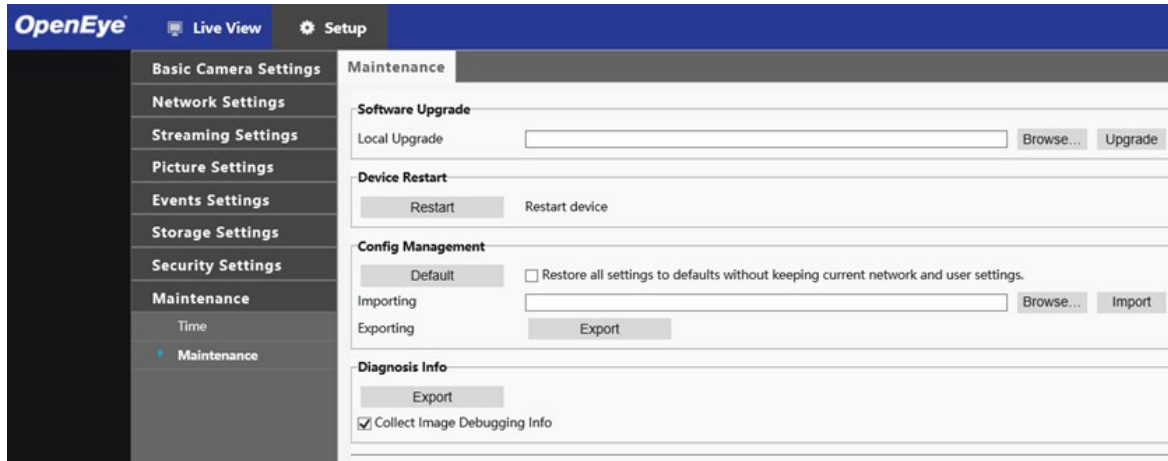
### Synchronizing with the NTP Server

1. Set **Sync Mode** to **Sync with NTP Server**, and then set the **NTP Server address** and **update interval**.
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



### 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. A restart may be necessary for some camera settings to take effect.

### Config Management

1. To import configurations that you have backed up, click **Browse** next to the **Import** button and 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.

[www.openeye.net](http://www.openeye.net)

1-888-542-1103

© 2021 OpenEye

All rights reserved. No part of this publication may be reproduced by any means without written permission from OpenEye. The information in this publication is believed to be accurate in all respects. However, OpenEye cannot assume responsibility for any consequences resulting from the use thereof. The information contained herein is subject to change without notice. Revisions or new editions to this publication may be issued to incorporate such changes.