

OpenEye[®]

**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

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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 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

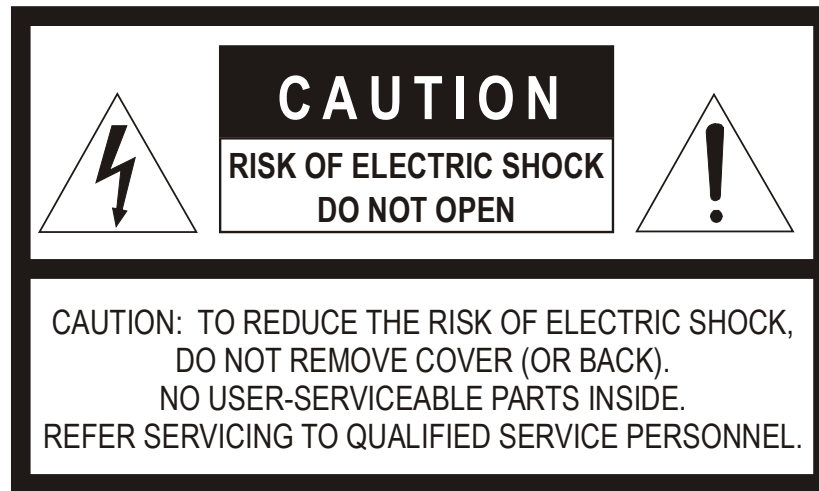


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INTRODUCTION

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.

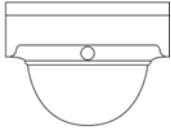
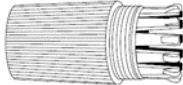
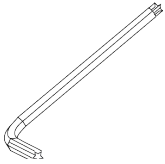
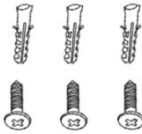
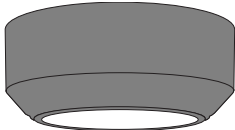
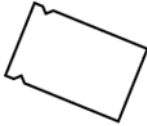
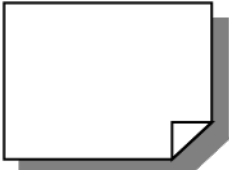
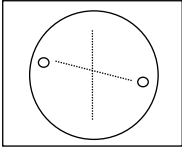
PRODUCT FEATURES

- 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

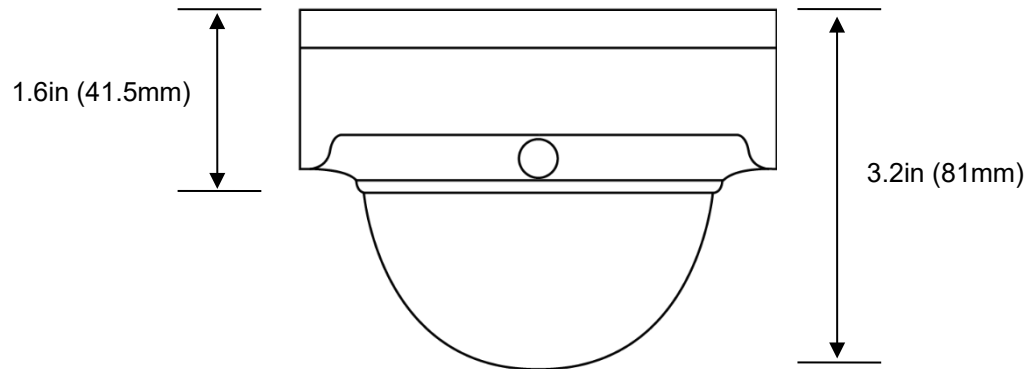
Before proceeding, please confirm that the box contains the items listed here. Please contact your dealer for assistance if any item is missing or has defects.

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

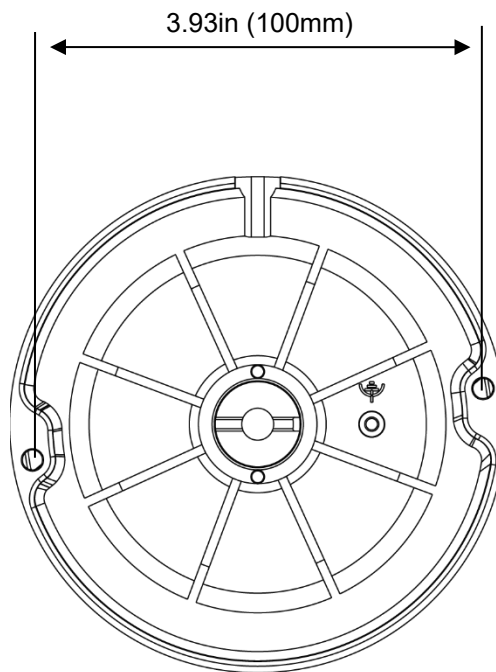
CAMERA OVERVIEW

CAMERA DIMENSIONS

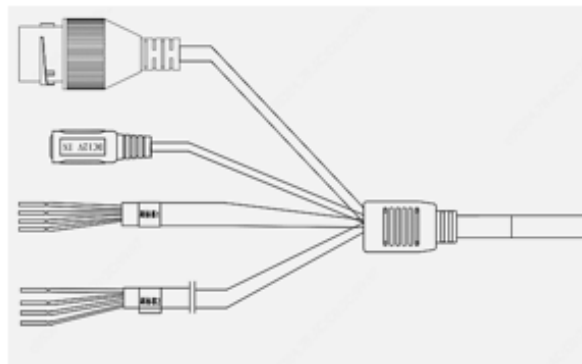
Side



Bottom

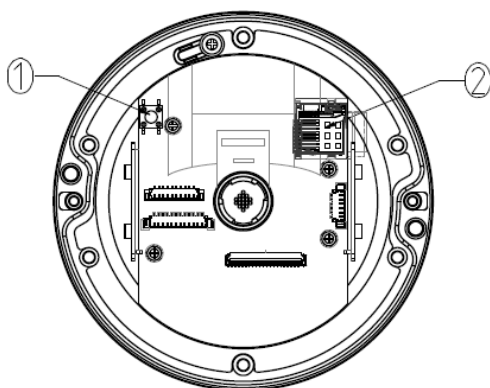


CONNECTIONS



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	To restore the camera to factory defaults: 1. Disconnect power for 30 seconds. 2. Reconnect power and wait 30 seconds. 3. Press the reset button with a proper tool for 20 seconds.
2	MicroSD Card Slot	Supports up to 512GB microSD card for Edge storage. Do not add or remove the microSD card when the camera is powered on.

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.
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:

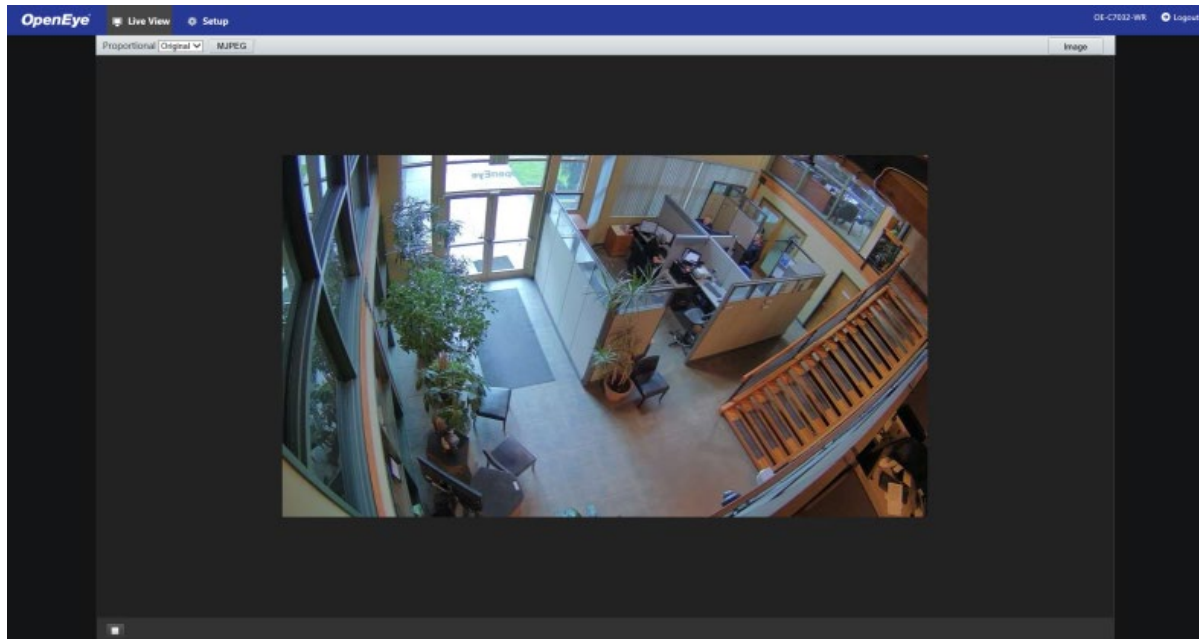
9 to 32 characters including at least two elements of the following three: digits, letters, and special characters

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:

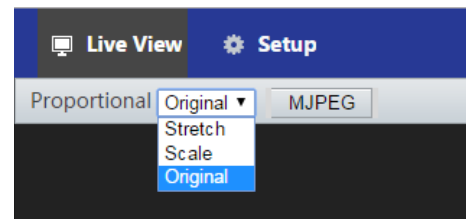
Stretch: Fit the camera image to the entire viewing window without scaling the image proportionately to the original view.

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 is a navigation bar with 'OpenEye' logo, 'Live View' button, and 'Setup' button. Below this, a sidebar on the left contains a list of settings categories: 'Basic Camera Settings' (expanded), 'Basic Info', 'Image', 'Video', 'Network', 'Time', 'Network Settings', 'Streaming Settings', 'Picture Settings', 'Events Settings', 'Storage Settings', 'Security Settings', and 'Maintenance'. The main content area is titled 'Basic Info' and displays a table of camera information. The table is divided into two sections: 'Basic' and 'Status'. The 'Basic' section lists 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), and MAC Address (48:ea:63:4b:bd:e8). The 'Status' section lists Device Time (2017/4/14 12:42:40), Operation Time (15 Day(s) 22 Hour(s) 33 Minute(s)), and Edge Storage (No card). A 'Refresh' button is located at the bottom of the table.

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

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 'Setup' tab with 'Network' selected, and the right screenshot shows the 'Basic Camera Settings' tab with 'Network' selected. Both screenshots show the following settings:

- DHCP/Static IP:** A dropdown menu set to 'Static'.
- IP Address:** A text field containing '192.168.51.3'.
- Subnet Mask:** A text field containing '255.255.255.0'.
- Default Gateway:** A text field containing '192.168.51.1'.
- IPv6:** A section with a dropdown menu set to 'Manual', and fields for 'IPv6 Address', 'Prefix Length' (set to '64'), and 'Default Gateway'.
- DNS:** A section with fields for 'Preferred DNS Server' (set to '8.8.8.8') and 'Alternate DNS Server' (set to '8.8.4.4').
- MTU:** A text field containing '1500'.
- Port Type:** A dropdown menu set to 'FE Port'.
- Operating Mode:** A dropdown menu set to 'Auto-negotiation'.
- Save:** A button at the bottom of the settings section.

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

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

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.

The screenshot shows the OpenEye web interface with the 'Setup' tab selected. The left sidebar contains a menu with 'Basic Camera Settings' expanded, showing 'Network Settings', 'FTP', 'E-mail', 'Streaming Settings', 'Picture Settings', 'Events Settings', 'Storage Settings', 'Security Settings', and 'Maintenance'. The 'FTP' section is active, displaying 'Server Parameters' and 'Snapshot Image' settings. The 'Server Parameters' section includes fields for 'Server IP' (192.168.0.150), 'Port No.' (21), 'Username', 'Password', 'Upload Images' (checkbox), 'Overwrite Storage' (checkbox), and 'Overwrite At(image)' (1000). The 'Snapshot Image' section includes 'Save To Root Directory' (Disable), 'File Name' (Separator), and a table for 'Naming Element' with 5 rows. The first row is selected, showing 'No.' 1 and 'Naming Element' 'None'. A 'Save' button is at the bottom.

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.

- 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.

OpenEye Live View Setup

E-mail

Sender

Name:

Address:

SMTP Server:

SMTP Port:

TLS/SSL: ☐ On ☒ Off

Snapshot Interval(s): ☒ Attach Image

Server Authentication: ☒ On ☐ Off

Username:

Password:

Recipient

Name1:

Address1:

Name2:

Address2:

Name3:

Address3:

Save

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.

The screenshot shows the OpenEye Setup 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 (selected), Audio, ROI, Media Stream, Picture Settings, Events Settings, Storage Settings, Security Settings, and Maintenance. The main content area is titled 'Snapshot' and contains the following settings:

- Resolution: A dropdown menu.
- Image Quality: A dropdown menu set to 'Medium'.
- Scheduled Snapshot section:
 - Snapshot Interval: A text input field set to '1'.
 - Number to Snapshot: A dropdown menu set to '1'.
 - Snapshot Mode: Radio buttons for 'Schedule' (selected) and 'Repeat'.
 - A table with columns 'No.' and 'Snapshot Time', featuring a '+' button to add new entries.

A 'Save' button is located at the bottom of the configuration area.

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	Schedule: You need to set a snapshot time, e.g., 19:12:00, which means the camera takes a snapshot at 19:12:00. 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.

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 settings interface. The top bar has 'OpenEye', 'Live View', and 'Setup' buttons. A left sidebar lists various settings categories: Basic Camera Settings, Network Settings, Streaming Settings, Video, Snapshot, Audio (selected), ROI, Media Stream, Picture Settings, Events Settings, Storage Settings, Security Settings, and Maintenance. The main panel is titled 'Audio' and contains the following settings:

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

To configure Audio setup:

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

Save



Note

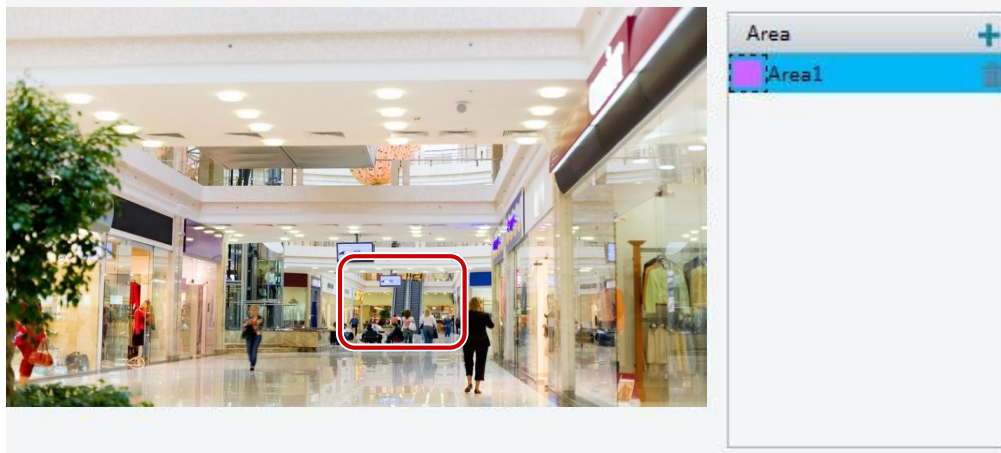
Only one Audio Channel can be active at a time. It is recommended to configure only channel 1. If the additional channel is needed, please contact customer support for advanced

Parameter	Description
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	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.
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 L / Audio R	Audio output channel(s). To enable audio output, 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:



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.

Stream Profile	IP Address	Port	Protocol	Persistent	
Main Stream					
	Multicast Address	0.0.0.0			
	Port	0			
Sub Stream					
	Multicast Address	0.0.0.0			
	Port	0			

Save

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

Main

IP Address

Port

Protocol

TS/UDP

Persistent

Enable

Disable

Save

Cancel

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.

No.	Current	Scene Name	Auto Switching	Setup
1	☒	<Indoor>	☒	Default Scene
2	☐	<Indoor>	☐	
3	☐	<Indoor>	☐	
4	☐	<Indoor>	☐	
5	☐	<Indoor>	☐	

Current Illumination: 63

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.

☐ Enable Auto Switching

Image Enhancement

Brightness 128

Saturation 123

Contrast 118

Sharpness 128

2D Noise Reduction 128

3D Noise Reduction 128

Image Rotation Normal

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
Exposure Mode	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)	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. Note: - 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	Control image signals so that the camera outputs standard video signals according to the light condition. Note: You can set this parameter only when Exposure Mode is set to Manual or Gain Priority.
Slow Shutter	Improves image brightness in low light conditions.
Slowest Shutter	Set the slowest shutter speed that the camera can use during exposure. Note: You can set this parameter only when Slow Shutter is set to On.
Compensation	Adjust the compensation value as required to achieve the desired effects. Note: You can set this parameter only when Exposure Mode is not set to Manual.
Metering Control	Set the way the camera measures the intensity of light. 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.

	Note: You can set this parameter only when Exposure Mode is not set to Manual .
Day/Night Mode	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. Night: The camera provides high-quality black and white images using the existing light Day: The camera provides high-quality color images using the existing light.
Day/Night Sensitivity	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. Note: You can set this parameter only when Day/Night Mode is set to Automatic .
Day/Night Switching(s)	Set the length of time before the camera switches between day mode and night mode after the conditions for switching are met. Note: You can set this parameter only when Day/Night Mode is set to Automatic .
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
Infrared

Control Mode
Overexposure Restrain

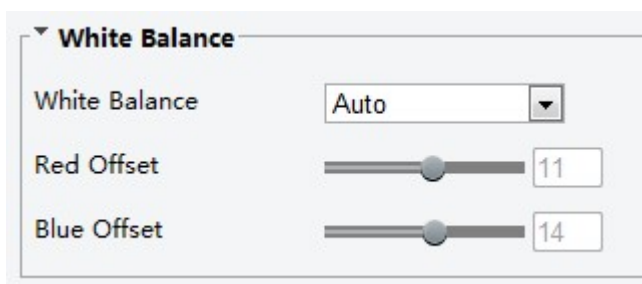
Illumination Level
0

Parameter	Description
Lighting Type	Infrared: The camera uses infrared light illumination.
Control Mode	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 .
---------------------------	--

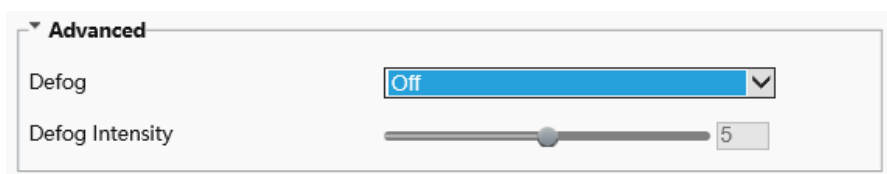
White Balance

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.



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

Advanced



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

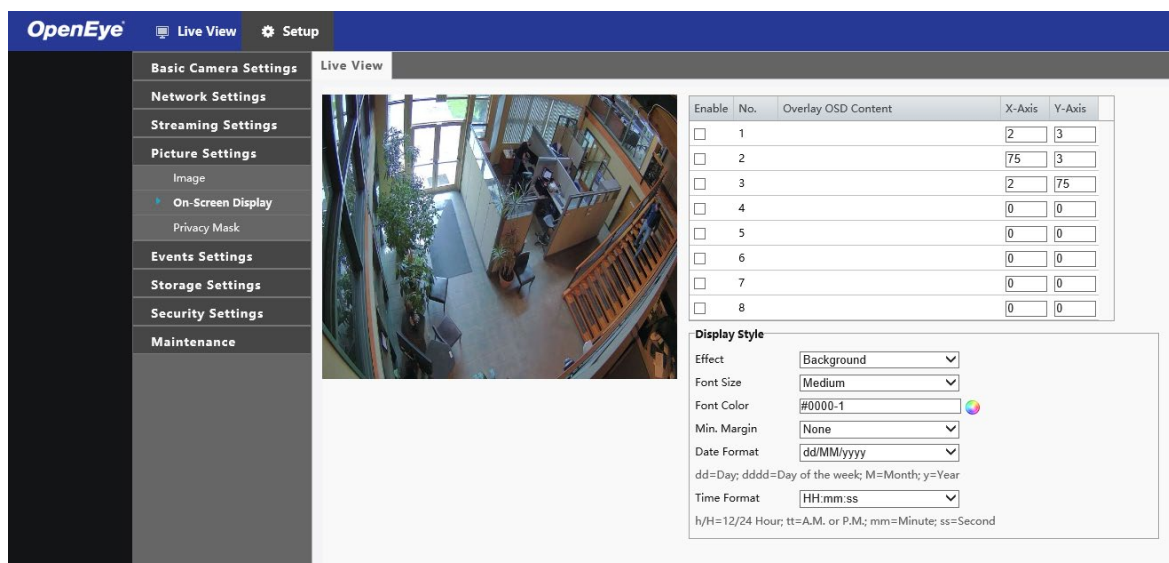
- Use the Defog dropdown menu to turn Defog **On** or **Off**.
- Slide the **Defog Intensity** bar to the desired position (1 is the minimum intensity and 9 is the maximum intensity).



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.



To add an on-screen display:

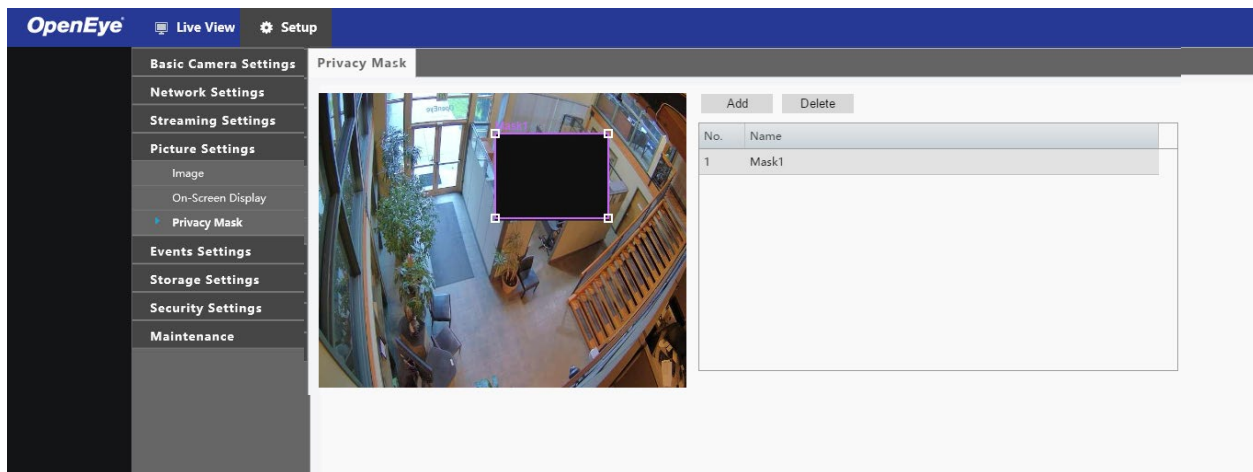
1. Select the position and content of the OSD.
 - a. **Position:** Click the desired box in the Live View area. After the cursor shape is changed, click and hold the button to move the box to the desired position. To set the position precisely, use the X and Y coordinates.
 - b. **Overlay OSD Content:** 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 the 'Motion Detection' configuration window. It includes a 'Detection Area' section with a camera image and a red detection box. Below this are 'Area' settings for Sensitivity (Low to High), Object Size (Small to Large), and Duration (Short to Long). The 'Alarm Parameters' section has input fields for 'Suppress Alarm(s)' and 'Clear Alarm(s)', both set to 5. The 'Trigger Actions' section has checkboxes for 'Alarm Output 1', 'Upload to FTP', 'Recording', and 'Trigger E-mail'. The 'Enable Schedule' section has a calendar grid for scheduling the alarm. The 'Armed' checkbox is selected, and the 'Save' button is at the bottom.

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

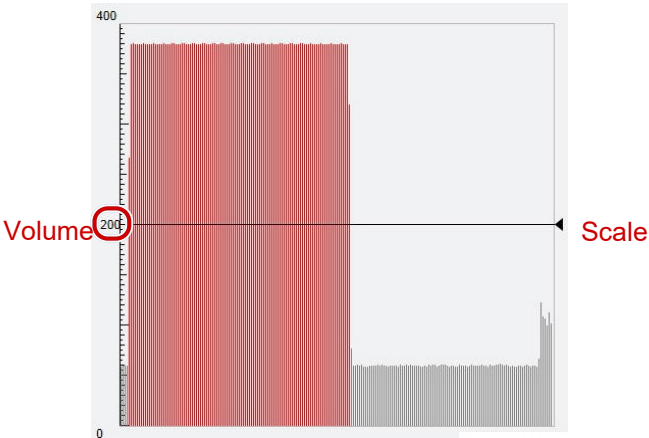
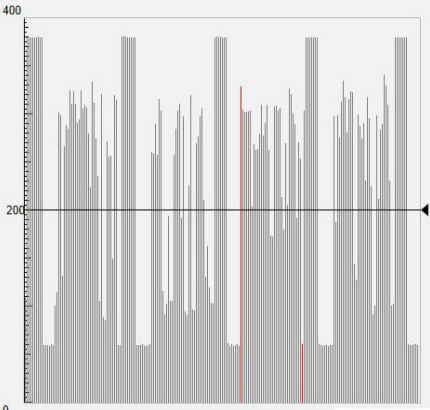
Audio Detection (OE-C7034-WR only)

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.

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	• Sudden Rise: An alarm is reported when the rise of volume exceeds the difference. • Sudden Falls: An alarm is reported when the fall of volume exceeds the difference. • Sudden Change: An alarm is reported when the rise or fall of volume exceeds the difference. • Threshold: An alarm is reported when the volume exceeds a threshold.
Difference	• Threshold: After a volume is set as the threshold, an alarm is reported when the threshold is exceeded. • Difference: the difference between two volumes. When the rise or fall of volume exceeds the difference, an alarm is reported. Note: • <i>The scale in the audio detection area is used to measure sound volume.</i> • <i>Audio detection results are shown in real time. The red part indicates the reported audio detection alarms.</i> 
Parameter	Description
	 Difference



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 Name:

Alarm ID:

Alarm Type:

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.

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

Select Alarm:

Alarm Name:

Default Status:

Delay(s):

☐ **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:

- 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	Memory Card	Format	☒ Enable
Total Capacity 121860 MB, Free Space 121830 MB.			
Allocate Capacity			
Video(MB)	100000	(The remaining capacity is used for image storage.)	
Common Snapshot(MB)	21860		
Video Storage Info			
Storage Policy	☐ Manual Storage ☐ Planned Storage ☒ Off		
Stream	Main Stream		
When Storage Full	☒ Overwrite ☐ Stop		
Post-Record(s)	60		
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

Memory Card

Format

Enable

Total Capacity 121860 MB, Free Space 121830 MB.

Allocate Capacity

Video(MB)

100000

(The remaining capacity is used for image storage.)

Common Snapshot(MB)

21860

Video Storage Info

Storage Policy

☐ Manual Storage ☒ Planned Storage ☐ Off

Stream

Main Stream

When Storage Full

☒ Overwrite ☐ Stop

Post-Record(s)

60

Plan

☒ Armed ☐ Unarmed

Edit

	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																									

Save

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

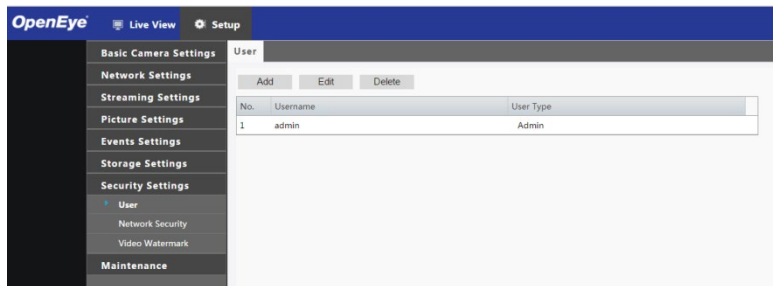
Recording download page allows you to search a selected date range for video and snapshots recorded to the microSD card.

The screenshot shows the OpenEye web interface. The top navigation bar includes the OpenEye logo and tabs for 'Live View' and 'Setup'. A left-hand menu lists various settings categories: Basic Camera Settings, Network Settings, Streaming Settings, Picture Settings, Events Settings, Storage Settings, Recording Download (which is highlighted with a blue arrow), Security Settings, and Maintenance. The main content area is titled 'Recording Download'. It contains a search section with the label 'Recording Time' and two date input fields, both set to '2019-08-02', followed by a 'Search' button. Below the search section is a 'Download' button. At the bottom of the main content area is a table with three columns: 'No.', 'Start Time', and 'End Time'. The table is currently empty.

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.

The screenshot shows the OpenEye 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, Picture Settings, Events Settings, Storage Settings, Security Settings, User, Network Security (highlighted with a blue arrow), Watermark, and Maintenance. The main content area is titled 'HTTPS' and contains the following settings:

- HTTPS:** Radio buttons for 'On' and 'Off' (with 'Off' selected).
- SSL Certificate:** A text input field, a 'Browse...' button, and an 'Upload' button.
- Authentication:** A dropdown menu currently showing 'Digest'.
- IP Address Filtering:** A checkbox for 'Enable' (unchecked).
- Filtering Mode:** A dropdown menu currently showing 'Whitelist'.
- IP Address List:** A table with two columns: 'No.' and 'IP Address'. It has a '+' button in the top right corner and is currently empty.
- Save:** A button at the bottom of the settings area.

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**

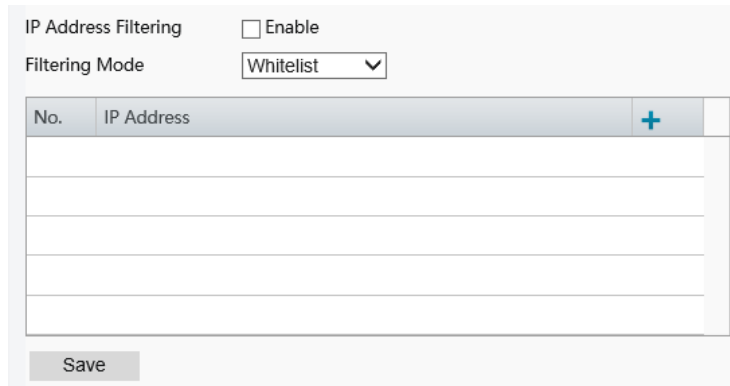
Authentication

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

This screenshot shows a close-up of the 'Authentication' dropdown menu. The menu is open, displaying three options: 'None', 'basic', and 'digest'. The 'digest' option is currently selected and highlighted with a blue background. Below the dropdown menu is a blue 'Save' button.

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 window. At the top, there is a checkbox labeled 'Enable' which is currently unchecked. Below it, the 'Filtering Mode' is set to 'Whitelist' via a dropdown menu. The main area contains a table with two columns: 'No.' and 'IP Address'. The table is currently empty, and a blue '+' icon is visible in the top right corner of the table area, indicating where to click to add new entries. At the bottom of the window is a 'Save' button.

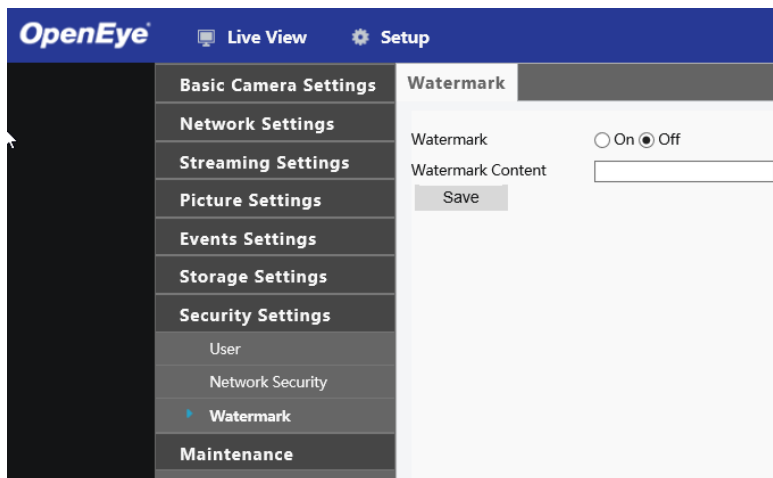
- Check the **Enable** checkbox.
- Select a **Filtering Mode**, and then click the **+** symbol to add the desired IP addresses to the list.



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' web interface. The top navigation bar includes 'Live View' and 'Setup'. On the left, a sidebar menu lists various settings categories: Basic Camera Settings, Network Settings, Streaming Settings, Picture Settings, Events Settings, Storage Settings, Security Settings, and Maintenance. The 'Watermark' option under 'Security Settings' is selected and highlighted with a blue arrow. The main content area displays the 'Watermark' configuration. It features a 'Watermark' label followed by radio buttons for 'On' and 'Off', with 'Off' currently selected. Below this is a text input field labeled 'Watermark Content'. A 'Save' button is located at the bottom of the configuration area.

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

Save

MAINTENANCE

Time

The screenshot shows the OpenEye camera setup 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, Picture Settings, Events Settings, Storage Settings, Security Settings, Maintenance, Time (selected), and Maintenance. The main content area is titled 'Time' and contains the following settings:

- Sync Mode:** A dropdown menu set to 'Sync with NTP Server'.
- Time Zone:** A dropdown menu set to '(UTC-08:00) Pacific Time(US & Canada)'.
- System Time:** A text field showing '2019-07-24 11:26:41' with a clock icon and a 'Sync with Computer Time' button.
- NTP Server:**
 - NTP Server Address:** A text field containing '2.cctv.pool.ntp.org'.
 - Update interval(s):** A text field containing '600'.
 - Save** button.
- DST:**
 - ☐ Enable DST
 - Start Time:** A series of dropdowns for month (Apr), day (First), day of week (Sun), and hour (02), followed by 'h'.
 - End Time:** A series of dropdowns for month (Oct), day (Last), day of week (Sun), and hour (02), followed by 'h'.
 - DST Bias:** A dropdown menu set to '60mins'.
 - 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**

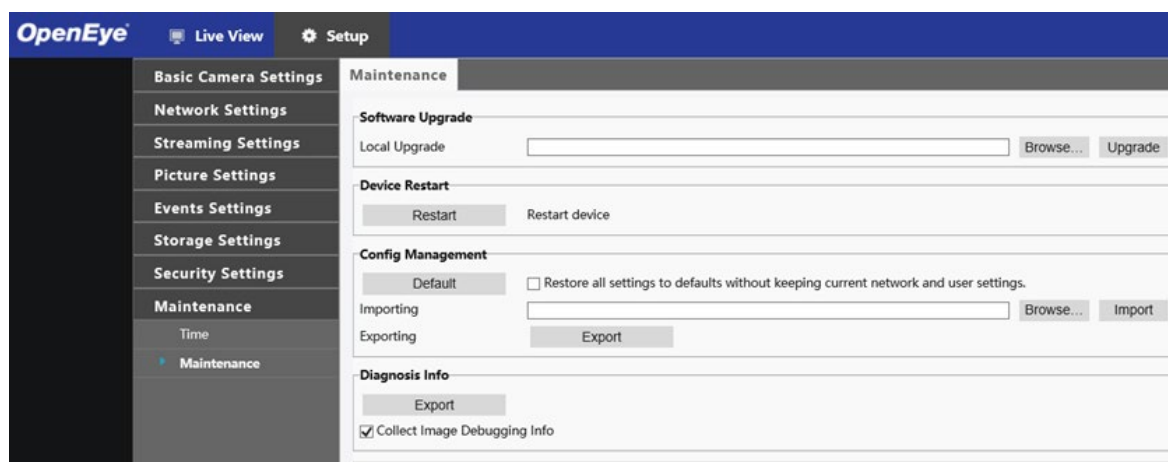
Synchronizing with the NTP Server

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.

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