



OpenEye[®]

The Cloud Video Platform

4MP OUTDOOR IP MINI TURRET

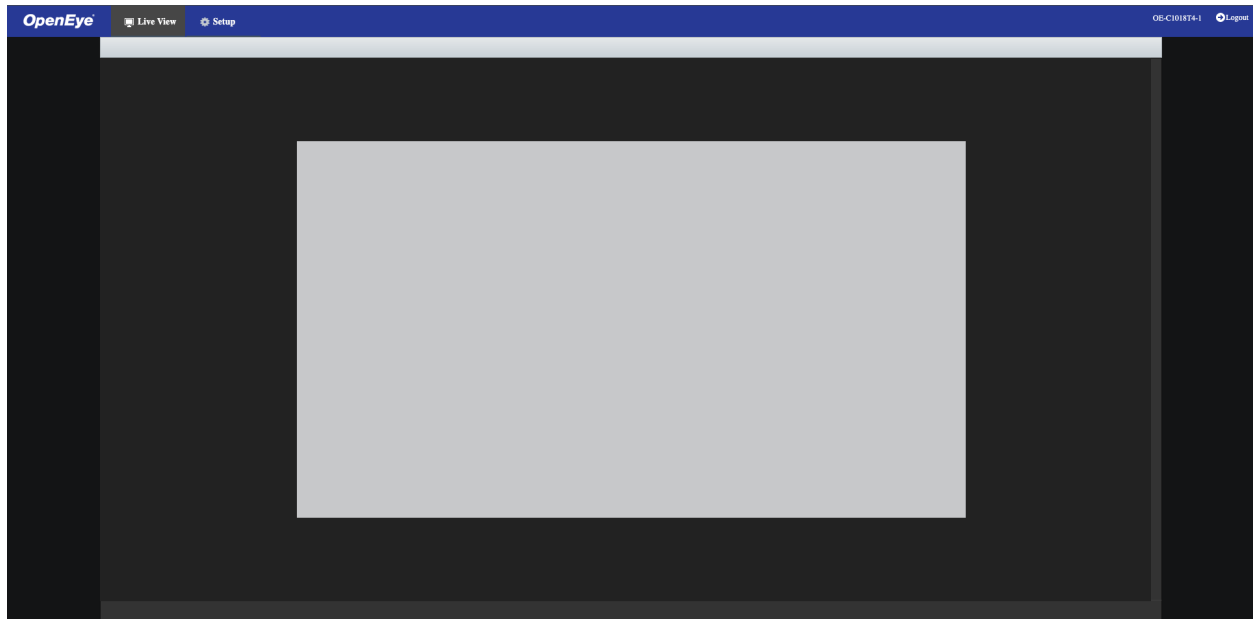
OE-C1018T4
USER MANUAL



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Live View



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

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

Logout – Log out the current user

SETUP & CONFIGURATION

BASIC CAMERA SETTINGS

Basic Info

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

Basic Camera Settings	Basic Info										
Basic Info	<table><tr><th colspan="2">Basic Info</th></tr><tr><td>Model</td><td>OE-C1018T4-1</td></tr><tr><td>IPv4 Network Info</td><td>172.30.43.212/255.255.248.0/172.30.40.1</td></tr><tr><td>MAC Address</td><td>c4:ff:84:a0:01:1c</td></tr></table>	Basic Info		Model	OE-C1018T4-1	IPv4 Network Info	172.30.43.212/255.255.248.0/172.30.40.1	MAC Address	c4:ff:84:a0:01:1c		
Basic Info											
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MAC Address	c4:ff:84:a0:01:1c										
Image											
Video											
Network											
Time											
Network Settings	<table><tr><th colspan="2">Version Info</th></tr><tr><td>Firmware Version</td><td>IPC-B1230.6.0.C05587.NB.241113</td></tr><tr><td>Hardware Version</td><td>A</td></tr><tr><td>Boot Version</td><td>V3.1</td></tr><tr><td>Serial No.</td><td>210235UHHL324B000285</td></tr></table>	Version Info		Firmware Version	IPC-B1230.6.0.C05587.NB.241113	Hardware Version	A	Boot Version	V3.1	Serial No.	210235UHHL324B000285
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Boot Version	V3.1										
Serial No.	210235UHHL324B000285										
Streaming Settings											
Picture Settings											
Event Settings											
Storage Settings											
Security Settings											
Maintenance	<table><tr><th colspan="2">Status</th></tr><tr><td>System Time</td><td>2024/12/20 14:25:09</td></tr><tr><td>Operation Time</td><td>3 Day(s) 0 Hour(s) 34 Minute(s)</td></tr></table>	Status		System Time	2024/12/20 14:25:09	Operation Time	3 Day(s) 0 Hour(s) 34 Minute(s)				
Status											
System Time	2024/12/20 14:25:09										
Operation Time	3 Day(s) 0 Hour(s) 34 Minute(s)										
	<button>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.

Network

DHCP/Static IP: **DHCP**

IP Address: 172.30.43.136

Subnet Mask: 255.255.248.0

Default Gateway: 172.30.40.1

IPv6

Mode: **Static**

Address:

Prefix Length: 64

Default Gateway:

DNS

Preferred DNS Server: 8.8.8.8

Alternate DNS Server: 8.8.4.4

Basic

MTU: 1500

Port Type: FE Port

Operating Mode: Auto-negotiation

Save

Static IP Address

To set up a new static IP address:

1. Select **Manual** from the **DHCP/Static IP** dropdown option.
2. Enter the **IP Address**, **Subnet Mask**, and **Default Gateway**.

***Note** - Make sure that the IP address of the camera is unique in the network.

3. **Save**

IPv6 Address Configuration

1. Select **Static** from the **Mode** dropdown option.
2. Enter the **IPv6 Address**, set the **Prefix Length** and **Default Gateway**.

***Note** - Make sure that the IP address of the camera is unique in the network.

3. **Save**

DNS

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

Port

Port

HTTP Port

80

HTTPS Port

443

RTSP Port

554

Note: Modifying the RTSP port number will cause the device to restart.

Save

Port Mapping

☒ On ☐ Off

Mapping Type

UPnP

UPnP Mapping

Manual

Port Type	External Port	External IP Address	Status
HTTP Port	80	0.0.0.0	Inactive
RTSP Port	554	0.0.0.0	Inactive
HTTPS Port	443	0.0.0.0	Inactive

Save

HTTP Port – Configure your relevant port number.



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

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

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



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

Port Mapping

To enable Port Mapping:

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



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

4. **Save**

DDNS

DDNS	
DDNS Service	<input type="radio"/> On <input checked="" type="radio"/> Off
DDNS Type	<input type="text" value="DynDNS"/>
Server Address	<input type="text" value="www.dyndns.com"/>
Domain Name	<input type="text"/>
Username	<input type="text"/>
Password	<input type="text"/>
Confirm	<input type="text"/>
<input type="button" value="Save"/>	

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

FTP

General

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

General

Server Parameters

Server IP0.0.0.0

Port No.21

Username

Password

Upload Images☐

Overwrite Storage☐

Overwrite At(image)1000

Test

Snapshot Image

Save To:
Root Directory

Disable

 \ \

Disable

 \ \

Disable

 \ \

Disable

File Name

Separator-

No.	Naming Element
1	None
2	
3	
4	
5	
6	

Note:Overwrite will take place in the current directory.

Save

To configure FTP:

1. Set the **Server IP** address and **Port No.** for the FTP server, **Username** and **Password** used to upload images to the FTP server, select **Upload Images**, **Overwrite Storage** and set **Overwrite At(image)** (threshold for overwriting images).
2. Set the **File Path** for saving snapshots on the FTP server and the **File Name** format.
Example: set path as Preset No.\\IP Address\\Date\\Hour(s), and set file name as Preset No.-PTZ Zoom-PTZ Latitude-PTZ Longitude.jpg
3. **Save**

Email

The camera can send an e-mail via Simple Mail Transfer Protocol (SMTP) when a variety of events occur.

Two sets of SMTP accounts can be configured. Each set includes SMTP Server, Account Name, Password and E-mail Address settings. For SMTP server, contact your network service provider for more specific information.

E-mail

Sender

Name

Address

SMTP Server

SMTP Port

25

TLS/SSL

☐ On ☒ Off

Snapshot Interval(s)

2

☒ Attach Image

Server Authentication

☒ On ☐ Off

Username

Password

Confirm

Recipient

Name1

Address1

Test

Name2

Address2

Test

Name3

Address3

Test

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**, **Image Quality**, and the **Smart Encoding**.

Streaming Settings

Resolution and Frame Rate Mode2688×1520@30

Main Stream

Video CompressionH.264

Resolution2688×1520

Frame Rate(fps)15

Bit Rate(Kbps)4608

Bitrate TypeVBR

Image Quality

Bit RateQuality

Smart EncodingBasic Mode

Enable Sub Stream

Video CompressionH.264

Resolution640×360

Frame Rate(fps)10

Bit Rate(Kbps)512

Bitrate TypeVBR

Image Quality

Bit RateQuality

I Frame Interval20

GOPIP

Smoothing

ClearSmooth

Save

To configure camera streams:

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

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

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

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

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

Video Compression – H.264 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.

10

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.



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

Stream URLs / RTSP

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

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

The RTSP stream URL format is as follows:

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

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

[PASSWORD] – This is the password to the user

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

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

[STREAM] –

- Primary Stream: video1
- Sub-stream: video2

Example:

[USER]	admin
[PASSWORD]	1\$S!9#6v\$\$\$1
[IP ADDRESS]	192.168.51.51
[RTSP PORT]	554
[STREAM]	1

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

Snapshot

Snapshot

Resolution

2688×1520

Max. Size (KB)

700

Scheduled Snapshot

Snapshot Interval(s)

1

Number to Snapshot

1

Snapshot Mode

☒ Schedule
 ☐ Repeat

No.	Snapshot Time	
1	11:03:00	
2	11:02:00	
3	11:01:00	

Save

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

To configure Snapshots:

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

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

Audio

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

The screenshot shows the 'Audio' configuration window. It has two tabs: 'Audio' and 'Audio File'. The 'Audio' tab is active. The settings are organized into two sections: 'Audio Input' and 'Audio Output'. In the 'Audio Input' section, there are radio buttons for 'On' (selected) and 'Off'. Below that is a dropdown for 'Access Mode' set to 'Line/Mic'. Then a slider for 'Input Volume' is shown at the 50 mark. Next is a dropdown for 'Audio Compression' set to 'G.711U', followed by a dropdown for 'Sampling Rate(KHz)' set to '8'. Then there are radio buttons for 'Noise Suppression' set to 'On'. Finally, there is a dropdown for 'Audio L' set to 'Mic' and a checked checkbox for 'Enable'. The 'Audio Output' section has a dropdown for 'Audio Output' set to 'Speaker'. At the bottom of the window is a 'Save' button.

To configure Audio setup:

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

Parameter	Description
Audio Input	No audio data will be encoded when Off is selected.
Access Mode	Line/Mic
Input Volume	Slider adjusts input volume.
Audio Compression	Two options: G.711U, G.711A. G.711U and G.711A support 8K sampling rate only.
Noise Suppression	Reduces background noise to improve clarity of voices. To enable noise suppression, select On .
Audio L	Enabled for the internal microphone by default.
Audio Output	Speaker

Audio File

The Audio File tab allows you to configure alarm audio.

Audio **Audio File**

Alarm Volume


95

Alarm Audio File

Browse...

Import

Note: PCM, MP3, or WAV files, each no more than 200K.

No.	Audio	Operation
1	You_are_in_the_alert_area!_Please_leave!	

Save

To configure alarm audio:

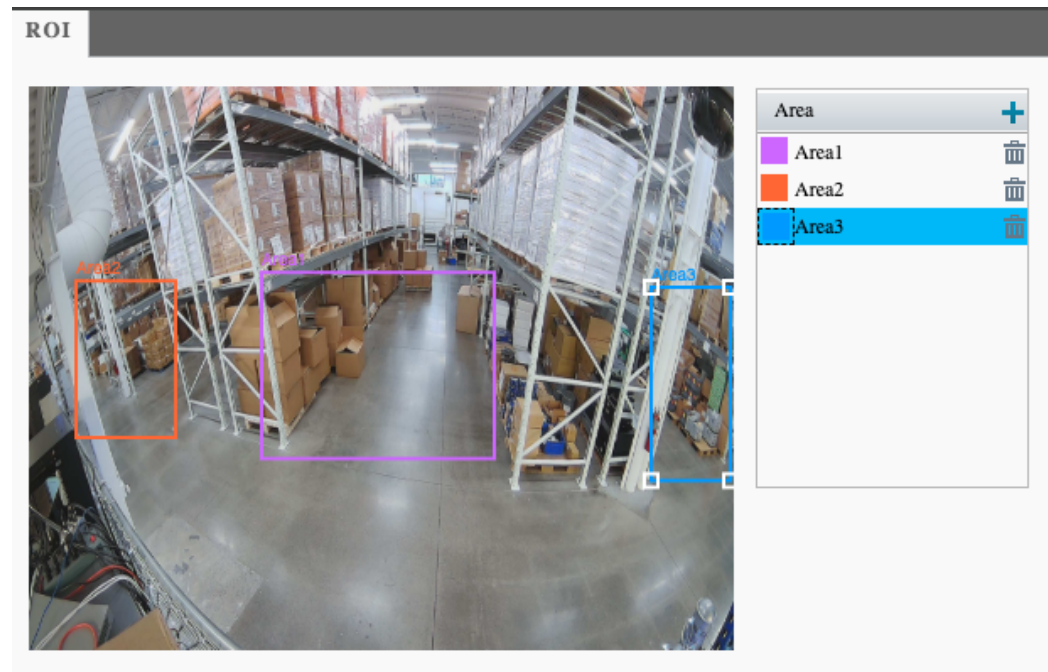
1. Use the slider to set the **Alarm Volume**.
2. Click **Browse** and select an audio file.
3. After the selected file name appears in **Alarm Audio File**, click **Import**.
4. When the audio file appears in the file list, select it and click **Save**.



Note You can import PCM, MP3, or WAV files, each no larger than 200 KB.

Region of Interest (ROI)

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



To enable ROI:

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

Changes will be saved automatically.

Media Stream

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



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

Media Stream

Stream Profile	Protocol	Destination IP	Destination Port	Persistent	Status	+
Main Stream	TCP	172.30.43.165	45404	Disable	Streaming	
Main Stream	TCP	172.30.43.178	33608	Disable	Streaming	
Main Stream	TCP	172.30.43.17	57615	Disable	Streaming	
Main Stream	TCP	172.30.43.156	56994	Disable	Streaming	
Main Stream	TCP	172.30.42.196	58422	Disable	Streaming	
Main Stream	TCP	172.30.43.90	64143	Disable	Streaming	

Main Stream
Multicast Address
Port

Sub Stream
Multicast Address
Port

Save

To configure media streams:

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



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

Add Media Stream

Stream Profile

Destination IP

Protocol

Persistent ☐ Enable ☒ Disable

OK Cancel

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



PICTURE SETTINGS

Picture Settings

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

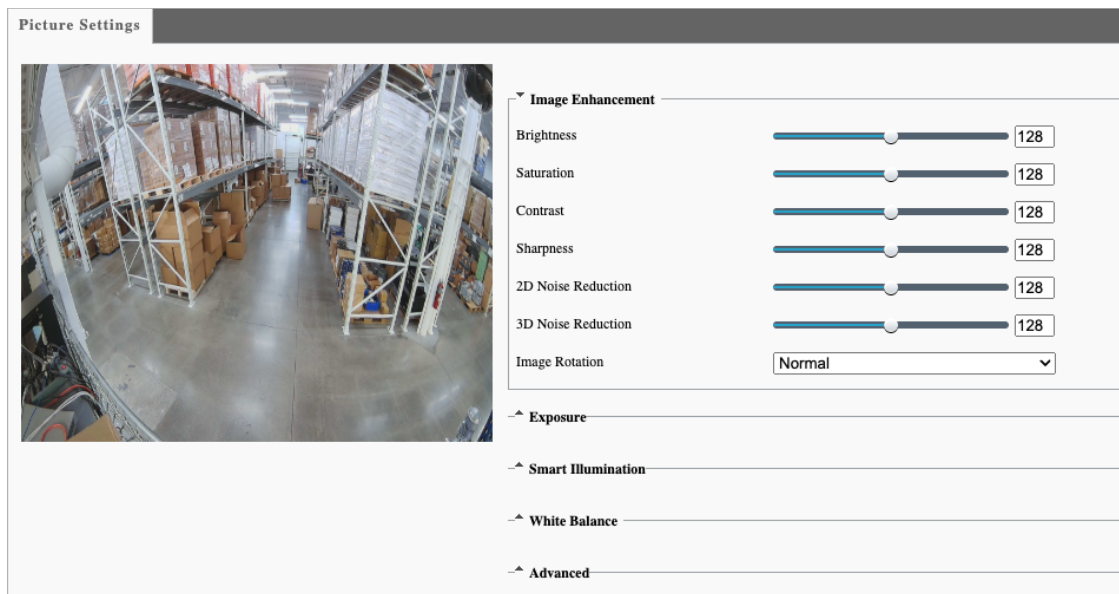
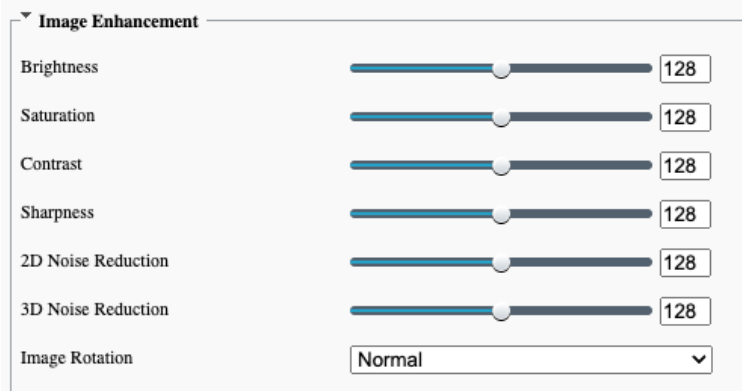


Image Enhancement

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



Exposure

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

The screenshot shows the 'Exposure' settings menu. The settings are as follows:

- Exposure Mode: Automatic
- Shutter(s): 1/100
- Gain: 0
- Slow Shutter: On
- Slowest Shutter: 1/15
- Compensation: 0
- Linear Stripe Suppression: 5
- Metering Control: Center-Weighted Average Metering
- Day/Night Mode: Automatic
- Day/Night Sensitivity: Medium
- Day/Night Switching(s): 3
- WDR: Off
- WDR Level: 4
- Suppress WDR Stripes: Off
- WDR On Sensitivity: 5
- WDR Off Sensitivity: 5

Parameter	Description
Exposure Mode	<ol style="list-style-type: none"> 1. Automatic: The camera automatically adjusts exposure according to the environment. 2. Custom: The user sets exposure as needed. 3. Indoor 50Hz: Reduce stripes by limiting shutter frequency. 4. Indoor 60Hz: Reduce stripes by limiting shutter frequency. 5. Manual: Finetune image quality by setting shutter, gain and iris manually. 6. Low Motion Blur: Control the minimum shutter to reduce motion blur in faces captured in motion.
Shutter (s)	<p>Shutter is used to control the light that comes into the lens. A fast shutter speed is ideal for scenes in quick motion. A slow shutter speed is ideal for scenes that change slowly.</p> <p>Note:</p> <ol style="list-style-type: none"> 1. You can set a shutter speed when Exposure Mode is set to Manual or Shutter Priority. 2. If Slow Shutter is set to Off, the reciprocal of the shutter speed must be greater than the frame rate.
Gain	<p>Control image signals so that the camera outputs standard video signals according to the light condition.</p> <p>Note: You can set this parameter only when Exposure Mode is set to Manual or Gain Priority.</p>

Slow Shutter	Improves image brightness in low light conditions.
Slowest Shutter	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 .
Linear Stripe Suspension	Adjust the linear stripes in the image. Range: 1 to 9, the default is 5. The greater the value, the more obvious the linear stripe suppression effect is, but it may cause overexposure in the image. Please configure this according to the actual scene.
Metering Control	Set the way the camera measures the intensity of light. 1. Center-Weighted Average Metering: Measure light mainly in the central part of images. 2. Evaluative Metering: Measure light in the customized area of images. 3. 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.

WDR On/Off Sensitivity	When WDR is set to Automatic , adjust the parameter to change the WDR switching sensitivity.
-------------------------------	--

Smart Illumination

Smart Illumination

Smart Illumination

☒ On
☐ Off

Illumination Mode

Infrared

Control Mode

Global Mode

Illumination Level

0

Parameter	Description
Illumination Mode	Infrared: The camera uses infrared light illumination.
Control Mode	<ol style="list-style-type: none"> Global Mode: The camera adjusts IR illumination and exposure to achieve balanced image effects. Some areas might be overexposed if you select this option. This option is recommended if monitored range and image brightness are your first priority. Overexposure Restrain: The camera adjusts IR illumination and exposure to avoid regional overexposure. Some areas might be dark if you select this option. This option is recommended if clarity of the central part of the image and overexposure control are your first priority. Manual: This mode allows you to manually control the intensity of IR illumination.
Illumination Level	<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>Note: You can set this parameter only when Control Mode is set to Manual.</p> <ul style="list-style-type: none"> Near-Illumination Level: Recommended for near focus scenes. <p>Far-Illumination Level: Recommended for far focus scenes.</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.

White Balance

White Balance

Auto

Red Offset

5

Blue Offset

30

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

Advanced

The screenshot shows a software interface for advanced settings. At the top, there is a dropdown menu labeled 'Advanced' with a downward arrow. Below it, there are two settings: 'Defog' and 'Defog Intensity'. The 'Defog' setting is a dropdown menu currently set to 'Off' with a checkmark icon. The 'Defog Intensity' setting is a horizontal slider bar with a circular knob in the middle, and a numerical value '5' is displayed to the right of the slider.

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

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



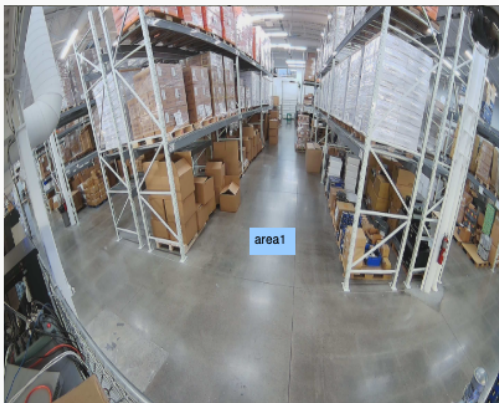
Note The Defog function is only available when WDR is disabled.

On-Screen Display

Live View

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

Live View



Enable	No.	Overlay OSD Content	X-Axis	Y-Axis
<input checked="" type="checkbox"/>	1		<input type="text" value="4"/>	<input type="text" value="79"/>
<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"/>

Display Style

Effect

Background

Font Size

Medium

OSD Inverse

Off

Min. Margin

None

Date Format

MM/dd/yyyy

dd=Day; dddd=Day of the week; M=Month; y=Year

Time Format

HH:mm:ss

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.

Privacy Mask



AddDelete

No.	Name
1	Mask1

To **add** a privacy mask:

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

To **delete** a privacy mask:

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

Changes will be saved automatically.

EVENT SETTINGS

Alarms

Motion Detection

Rule Settings - 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.

Motion Detection ☐ On ☒ Off

Rule Settings Trigger Actions Plan

Rule Mode Area

Detection Rule +

Rule1

Sensitivity 1

Object Size 1

Alarm Parameters

Suppress Alarm(s) 15

Save

To configure Basic Motion Detection:

1. Select **Basic**, and the **Area** default **Rule Mode**.
2. Click + to create a new **Detection Rule**.
3. 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.
4. Use the **Sensitivity** and **Object Size** slider bars to adjust the motion detection parameters as desired.

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

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

Alarm Parameters

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

Clear Alarm – After the alarm is triggered:

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

Trigger Actions

1. Check the boxes to choose the actions that are triggered when a person or vehicle is detected.
2. **Save**

Motion Detection

Motion Detection ☐ On ☒ Off

Rule Settings **Trigger Actions** **Plan**

Conventional	Storage
<input type="checkbox"/> Upload to FTP	<input type="checkbox"/> Record Video to SD card
<input type="checkbox"/> Send E-mail	<input type="checkbox"/> Save Snapshot to SD card

Save

Item	Description
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.
Send Email	With Send E-mail selected, the camera will automatically send snapshots to the specified E-mail addresses when a person or vehicle is detected. Note: Make sure you have completed E-Mail Recipient configuration before using this function.
Record Video to SD Card	With Record Video to SD Card selected, the camera will automatically record video to the SD Card when a person or vehicle is detected. Note: Make sure you have completed Storage configuration before using this function.
Save Snapshot to SD Card	With Record Snapshot to SD Card selected, the camera will automatically save an image to the SD Card when a person or vehicle is detected. Note: Make sure you have completed Storage configuration before using this function.

Plan

Motion Detection

Motion Detection ☒ On ☐ Off

Rule Settings Trigger Actions Plan

☒ Enable Schedule

☒ 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	Armed	Armed	Armed	Armed	Armed											Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed
Tue	Armed	Armed	Armed	Armed	Armed											Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed
Wed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed										
Thu	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed										
Fri	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed										
Sat	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed
Sun	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed	Armed

Save

1. Click **Armed** or **Unarmed** and click the schedule to set when enabled Trigger Actions are effective.

Edit

No.	Start Time	End Time
1	00:00:00	04:00:00
2	14:00:00	23:59:59
3		
4		

Copy To ☐ Select All

☒ Mon ☐ Tue ☐ Wed ☐ Thu ☐ Fri ☐ Sat ☐ Sun

Copy

OK Cancel

2. Click **Edit**.
3. Set the start and end times during which Trigger Actions are effective. The time periods cannot overlap. The camera reports alarms during the specified period(s) only.
4. Select from Monday to Sunday and set up to four periods for each day or check the days and **Copy** to set the same schedule for multiple days.
5. Click **OK**.
6. **Save**

STORAGE SETTINGS

Storage

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

Storage

Storage Medium Memory Card ☐ Enable

Storage Medium Status: No card

Total Capacity 0 MB, Free Space 0 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

When Storage Full ☐ Overwrite ☒ Stop

Post-Record(s)

Note Formatting the microSD card causes the camera to restart

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

Format

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

Allocate Capacity

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

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

Video Storage Info

Storage Policy

Manual Storage – records video to the SD card continuously.

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

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

When Storage Full

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

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

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

Save

Snapshot Download

Snapshot Download

Refresh

Export Images

Delete

Photo List

Total Capacity for Common Snapshot 0 GB,Free Space 0 GB.

172.30.42.161

CommonServer

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

Recording Download

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

Recording Download

Recording Time

2024-12-18

2024-12-18

Search

No.	Start Time	End Time
-----	------------	----------

Download

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

User

Add

Edit

Delete

No.	Username	User Type
1	admin	Admin

There are two types of users:

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

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

Up to 20 common users are allowed.

Add

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

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

Edit

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

Delete

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

Network Security

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

HTTPS

The screenshot shows the 'Network Security' configuration page with the 'HTTPS' tab selected. The page has three sub-tabs: 'HTTPS', 'WebSockets', and 'Certificate Management'. Under the 'HTTPS' tab, there are several settings: 'HTTPS' is set to 'On' (radio button selected); 'Auto Redirect to HTTPS' is set to 'Off' (radio button selected); 'Server Certificate' is set to 'default' (dropdown menu); 'RTSP Authentication' is set to 'Digest MD5' (dropdown menu); 'HTTP Authentication' is set to 'Digest MD5' (dropdown menu); 'IP Address Filtering' is set to 'Off' (radio button selected); and 'Filtering Mode' is set to 'Allowlist' (dropdown menu). There are 'Save' buttons for the main settings and for the authentication settings. Below the 'Filtering Mode' dropdown is a table with two columns: 'No.' and 'IP Address'. The table is currently empty, and there is a '+' button to add new entries. A 'Save' button is located at the bottom of the table.

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

To configure Network Security:

1. Enable HTTPS by selecting **On**.
2. **Save**

Export Certificate

Click **Export** to download a .crt file of your security certificate.

RTSP and HTTP Authentication

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

IP Address Filtering

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

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



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

Watermark

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

Watermark

Watermark

☒ On ☐ Off

Watermark Content

Save

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

MAINTENANCE

Time

Time

Sync Mode

Sync with NTP Server

Time Zone

(UTC+00:00) London, Dublin, Lisbon

System Time

2024-12-20 16:55:07

Set Time

2024-12-20 16:54:53

Sync with Computer Time

NTP Server

NTP Server Address

0.0.0.0

Test

Port

123

Update Interval(s)

600

Save

DST

DST

On

Off

Start Time

Apr

First

Sun

02

h

End Time

Oct

Last

Sun

02

h

DST Bias

60mins

Save

Manually Setting or Synchronizing the System Time

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

Synchronizing with the NTP Server

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

Setting the DST

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

Maintenance

Software Upgrade

Local Upgrade **Browse...** **Upgrade**

Note: The upgrade will take a while. Please do not disconnect power.

Config Management

Default ☐ Restore all settings to defaults without keeping current network and user settings.

Exporting **Export**

Diagnosis Info

Export Diagnosis Info **Export**

☒ Collect Image Debugging Info

Device Restart

Restart Restart device

Software Upgrade

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



Note The software file must be a .zip file.

Config Management

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

Diagnosis Info

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



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

Device Restart

This will restart your camera.

Log

The camera's log displays a searchable list of changes made to the system.

Log

Time

2024-12-20 00:00:00

2024-12-20 23:59:59

Main Type

All

Operation

Query

Export

No.	Type	Date	Time	Username	IP	Description
1	Config Management	2024-12-20	16:27:58	admin	172.26.203.14	Other
2	Video & Audio	2024-12-20	15:24:47	admin	172.26.203.14	Configure OSD
3	Video & Audio	2024-12-20	15:24:45	admin	172.26.203.14	Configure OSD
4	Video & Audio	2024-12-20	15:24:43	admin	172.26.203.14	Configure OSD Display Style
5	Video & Audio	2024-12-20	15:24:41	admin	172.26.203.14	Configure OSD Display Style
6	Video & Audio	2024-12-20	15:24:39	admin	172.26.203.14	Configure OSD Display Style
7	Video & Audio	2024-12-20	15:24:36	admin	172.26.203.14	Configure OSD Display Style
8	Video & Audio	2024-12-20	15:24:32	admin	172.26.203.14	Configure OSD
9	Video & Audio	2024-12-20	15:24:30	admin	172.26.203.14	Configure OSD
10	Video & Audio	2024-12-20	15:24:20	admin	172.26.203.14	Configure OSD
11	Video & Audio	2024-12-20	15:17:25	admin	172.26.203.14	Configure OSD
12	Video & Audio	2024-12-20	15:17:22	admin	172.26.203.14	Configure OSD Display Style
13	Video & Audio	2024-12-20	15:17:19	admin	172.26.203.14	Configure OSD Display Style
14	Video & Audio	2024-12-20	15:17:16	admin	172.26.203.14	Configure OSD

Total 21

<<

<

1

>

>>

/1

- 1. Set a **Time** range.
- 2. Narrow search by selecting a **Main Type**.
- 3. Click **Query**.
- 4. **Export** to download the result.

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