

# OpenEye®

## Tamper Resistant IP Mini Dome

User Manual



Camera

CM-711  
CM-611

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



## Indoor/Outdoor IP Camera (CM-611 / CM-711)

### User Manual

Manual Edition 31113AA – May 2012

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OPENEYE

Liberty Lake, WA • U.S.A.

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## Important Safeguards

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### 1. Read Instructions

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

### 2. Retain Instructions

Save these instructions for future reference.

### 3. Attachments / Accessories

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

### 4. Installation

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

### 5. Power source

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

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## Precautions

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### 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.
- Do not block the cooling holes on the bracket. This camera has a cooling fan inside the housing. Blocking the cooling holes will cause heat to build up and cause malfunction.
- 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. (14°F~ 122°F / -10°C ~ 50°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.

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## Regulation

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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.

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste in accordance with Directive 2002/96/EC. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By proper waste handling of this product you ensure that it has no negative

consequences for the environment and human health, which could otherwise be caused if this product is thrown into the garbage bin. The recycling of materials will help to conserve natural resources.

For more details information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.



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.



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## Warning

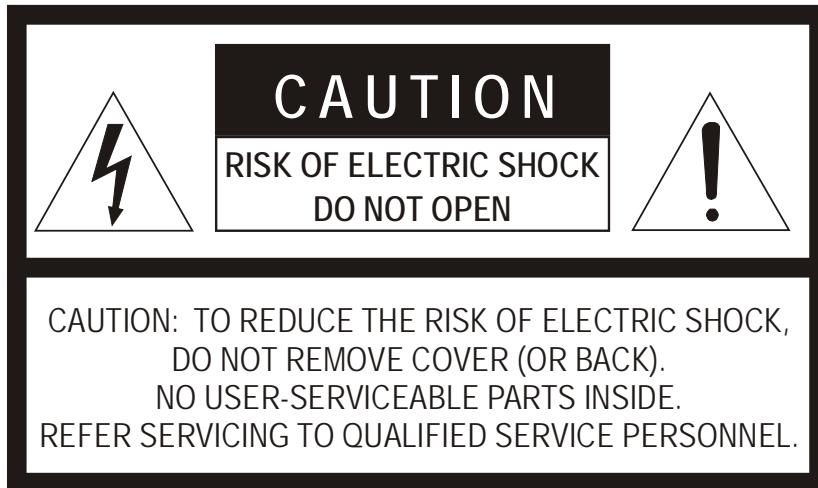
---

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

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## Caution

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# INTRODUCTION

## OVERVIEW

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The CM-611 and CM-711 Tamper Resistant IP Mini Dome cameras are capable of providing real time streaming video with smooth image quality. The IP Mini Dome cameras offer quad streaming and can be used in a variety of installations including shops, stores, banks, parking lots, factories and for building surveillance.

With Power over Ethernet (PoE) the need for separate power lines is eliminated and cabling and installation costs can be significantly reduced. The light weight, small size, and large degree of rotation of the IP Mini Dome facilitates quick and simple installation on either the ceiling or walls of structures or vehicles.

## Product Features

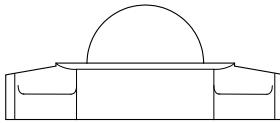
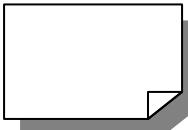
- ONVIF™ compliant
- H.264 and MJPEG
- Power over Ethernet
- 2MP (1080p HD)
- Quad streaming
- Built-in microphone with one-way audio (CM-611 only)
- Weatherproof dongle network cable (CM-711 only)
- Weatherproof IP66 housing (CM-711 only)
- Security Torx screws to prevent unauthorized tampering

# GETTING STARTED

## BOX CONTENTS

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Before proceeding, please check that the box contains the items listed here. If any item is missing or has defects, DO NOT install or operate the product and contact your dealer for assistance.

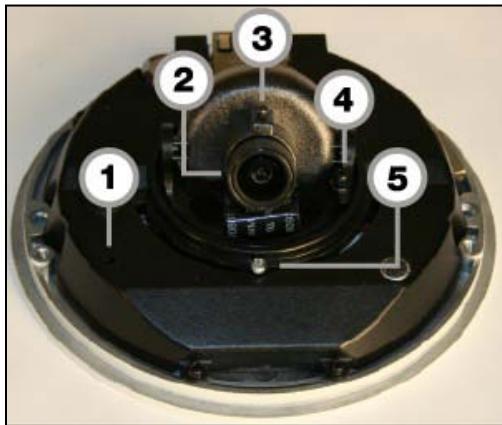
		
<b>Rubber Washers (CM-711 only)</b>		
		

# CAMERA OVERVIEW

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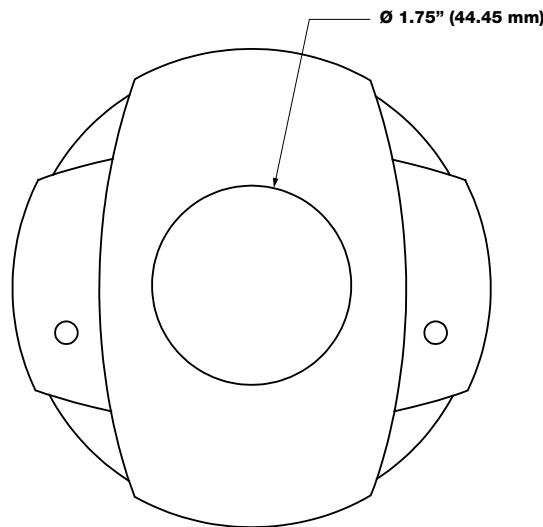
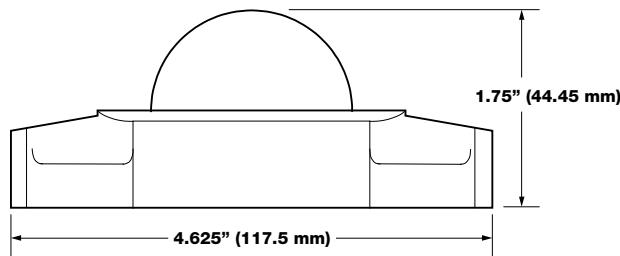
Before installing or connecting the dome camera, please refer to this section and complete preparations for dome setup and all switch settings.

## Dome Diagram



- |   |                   |  |
|---|-------------------|--|
| 1 | Reset Button      | Restore camera settings to default settings    |
| 2 | Lens              | Rotate the lens left/right to adjust the focus |
| 3 | Focus Fixed Screw | Loosen the screw to adjust the lens            |
| 4 | Tilt Fixed Screw  | Loosen the screw to adjust the tilt angle      |
| 5 | Pan Fixed Screw   | Loosen the screw to adjust the pan position    |

## Dimensions



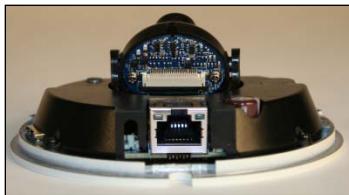
- Diameter – 110.21mm (4.3 inches)
- Height – 47.66mm (1.87inches)

## Connections

### ***Indoor Camera (CM-611)***

The CM-611 Indoor IP camera uses Power over Ethernet (PoE) to power the camera. The only connection on the camera is the RJ45 Ethernet connector located on the rear of the camera. Connect one end of the Ethernet cable to the RJ45 port on the camera and the other end to power sourcing equipment (PSE) like a hub or router.

Check the status of the network connection by looking at the link indicator and activity indicator LEDs. If the LEDs are not lit check your network connection. The green link LED indicates a network connection and the orange activity LED flashes to indicate network activity.



### ***Outdoor Camera (CM-711)***

The CM-711 Outdoor IP camera uses Power over Ethernet (PoE) to power the camera. The only connection on the camera is the RJ45 Ethernet dongle located on the rear of the camera. Run the Ethernet cable through the Waterproof RJ45 Screw-On Plug. Then connect one end of the Ethernet cable to the RJ45 dongle, tightening the sealing nut of the Waterproof RJ45 Screw-On Plug completely. Connect the other end of the Ethernet cable to power sourcing equipment (PSE) like a hub or router.

**Note** Use a waterproof PoE switch/hub.



# CAMERA FINDER

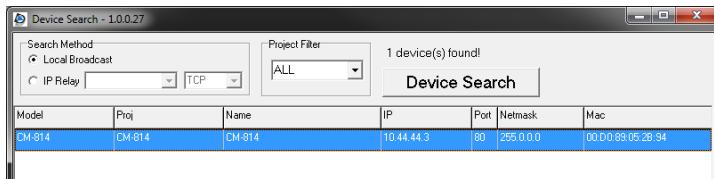
## OPENEYE IP FINDER

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Use the included IP Finder software to easily find your network cameras for initial setup. The OpenEye IP Finder software is included on the CD with all OpenEye IP devices.

### Finding IP Cameras

1. Open the Software CD on the recorder.
2. Click **Software** on the software disc menu.
3. Click **OpenEye IP Finder**.
4. Click **Device Search** on the **Device Search** window.



5. If a **Windows Security Alert** window opens, click **Unblock** to allow the IP utility to access your network.
6. Click **Device Search** again to find all connected IP devices.

**Tip** The default IP address of the VS201 is 192.168.0.250

7. Right-click the desired network device and select **Browse**.
8. Type the default username and password in the login window to access the video server using your internet browser.

**Note** If you cannot connect to the camera you may need to change the camera's IP address to match your network settings.

### Default Username and Password

The username and password are case sensitive. It is strongly recommended that the password be changed after the initial setup to prevent unauthorized access.

Username – Admin

Password – 1234

## Changing the Network Type

You can change the network type from Static IP to DHCP easily from the list of connected IP devices. To change the network type to DHCP:

1. On the list of connected IP devices locate the desired camera and record the **MAC** address,
2. Right-click the camera row and select **Network Setup**.
3. Select the **DCHP** option on the **Network Setup** window and then click **Apply**.
4. Click **OK** to acknowledge the change.
5. After one minute, click **Device Search** to search for all connected IP devices.
6. Locate the camera using the **MAC** address recorded earlier and double click the camera row.
7. Type the **Username** and **Password** to access the camera.

# SETUP & CONFIGURATION

## CONNECTING TO THE CAMERA

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1. Locate the camera on the IP Finder list.
2. Double-click the camera to open the Viewer software in your web browser.
3. Log in to the camera with the appropriate User Name and Password.

**Note** The default User name is Admin and the default Password is1234. The username and password are case sensitive

## Resetting the Camera

If it is necessary to reset the camera to the factory default settings, hold down the Reset button (see *Camera Overview* for 30 seconds. This will return all settings, including network setup, to the factory default. The IP address of the camera will return to 192.168.0.250.

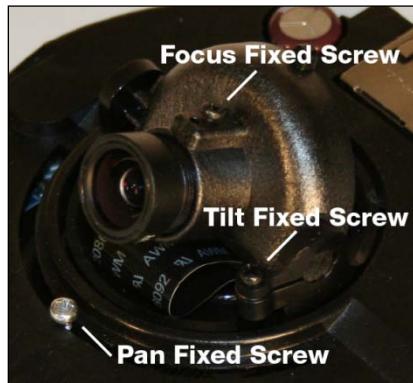
## Administrator/User Privileges

The Administrator account has the authority to configure the IP camera and authorize users' access to the camera. The User accounts have access to the camera with limited authority.

## Lens Adjustment

The Viewer software will display an image from the camera on the Home tab. Adjust the camera's focus to produce a clear image.

1. Remove the screws from the camera dome cover.
  2. Loosen the focus fixed screw and rotate the lens counter clockwise to adjust the focus. Loosen the tilt fixed screw and adjust the camera's tilt angle.



# Connecting a Stream

OpenEye IP cameras are optimized for use with OpenEye recorders, but you can also connect to your OpenEye IP cameras using third party software like VLC media player (<http://www.videolan.org>).

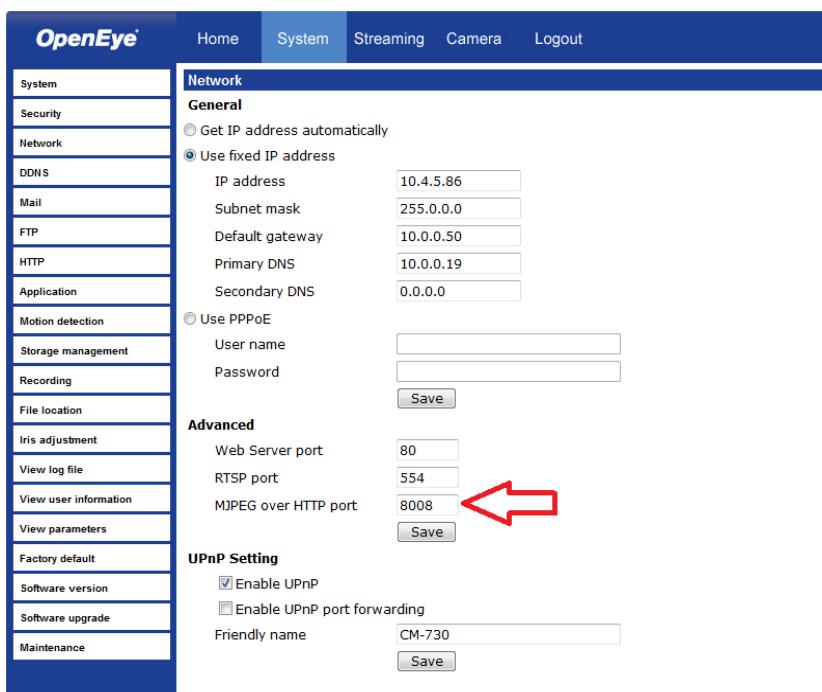
To connect the camera you may need to provide the stream URL. All OpenEye IP cameras are capable of delivering two RTSP streams, as well as streaming MJPEG over HTTP. The stream URLs are listed below.

`rtsp://<ip address>/mpeg4`

`rtsp://<ip address>/h264`

`http://<ipaddress>:8008`

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:



The screenshot shows the 'Network' configuration page of an OpenEye IP camera. The left sidebar lists various network-related options. The main area is titled 'General' and contains fields for IP address, subnet mask, default gateway, and DNS. Below this, there are sections for 'Use PPPoE' and 'Advanced' settings. In the 'Advanced' section, the 'MJPEG over HTTP port' field is set to '8008', which is highlighted with a red arrow. The 'Save' button is located below this field. The 'UPnP Setting' section includes checkboxes for 'Enable UPnP' and 'Enable UPnP port forwarding', and a 'Friendly name' field set to 'CM-730'.

## Connecting Over the Internet

There are some challenges with connecting to OpenEye IP cameras over WAN (internet) connections because the camera streams video over RTSP. RTSP is an excellent protocol for media and is now used on many IP cameras (including OpenEye) as the default streaming option.

However, RTSP is not suitable for transmission between two locations that are behind different routers. In this case, the client (for example, the OpenEye HVR or NVR server software) connects to the camera, then requests a stream. The camera uses that connection to return a stream, but since the connection originated on the client side and has now switched to the camera (remote) side, the router does not have any way to determine where the traffic should be routed, so no video appears at the recorder.

There are three solutions to this:

4. Connect modems on both sides directly to the recorder and camera. If there is no router, no network address translation is needed.
5. Use routers with VPN support and set up a small VPN. Once this is done, the traffic will be treated as though it were all on the local network.
6. **(Best solution)** – Use routers with **connection tracking**. This is quite easy; VOIP also uses RTSP and faces the same challenges. If a router is marketed as having “VOIP Support”, it will have the necessary connection tracking capability to allow any type of RTSP communication (not just VOIP).

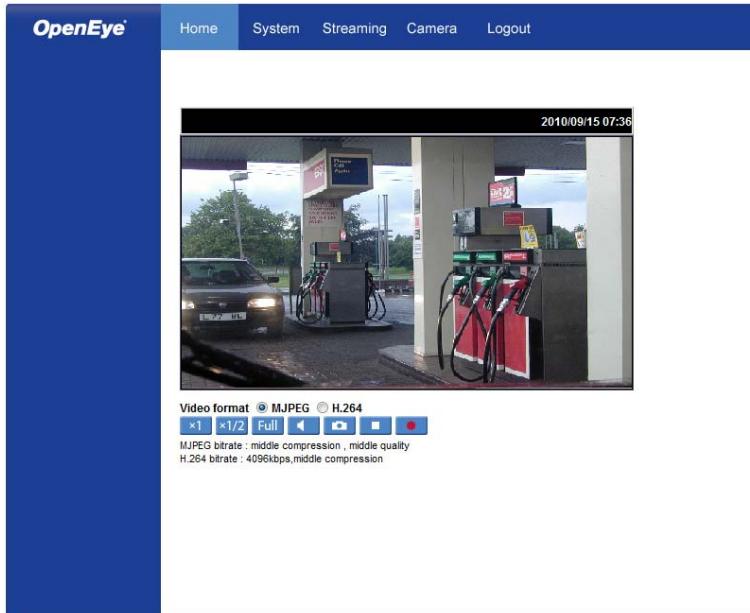
With proper planning and the correct equipment, RTSP cameras CAN stream over the WAN to a recording device for minimal additional cost and labor.

Please contact OpenEye support if you require any additional information on these topics.

# VIEWER SOFTWARE

To access the setup menu, you need to install the viewer software on your PC or DVR. The viewer software will install automatically the first time you connect to the camera. If your internet browser doesn't install the viewer software, check the security settings or ActiveX controls and plug-in settings. If your internet browser asks for permission to install the ActiveX control, you must allow the ActiveX control to continue the installation.

The first time you connect to a camera, the browser will ask for permission to install the ActiveX Control necessary to display the camera video. Right-click the information bar and click **Install ActiveX Control** to allow the installation.



**Note** IP camera audio is only available on the Indoor IP mini dome camera. The Talk button will not be available on the Outdoor version of the camera.

## Viewer Tabs

**Home** – Monitor live video.

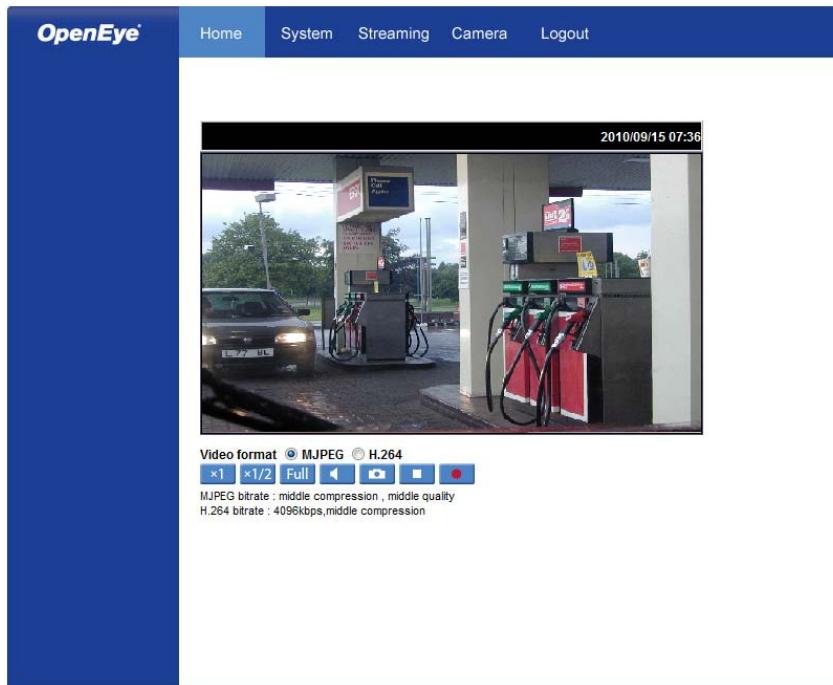
**System** – Set the host name, system time, root password, and network related settings. (Admin access only)

**Streaming** – Modify the video resolution and select the audio compression type.

**Camera** – Adjust the camera parameters including Exposure, White Balance, Brightness, Sharpness, Contrast, and Digital Zoom.

**Logout** – Change user.

# Home



**Screen Size Adjustment** – Click the screen size buttons to adjust image display size x1/2 and full screen.

**Digital Zoom Control** – In full screen mode, right-click to activate digital zoom and use the scroll wheel to zoom in/out.

**Talk** – Talk allows the local site to talk to the remote site. This function is only available to Users who have been granted this privilege by the Administrator.

**Note** This function is only available on the Indoor IP mini dome camera. The Talk button will not be available on the Outdoor version of the camera.

**Snapshot** – Click the button, and a JPEG snapshot will automatically be saved in the appointed place. The default location is: C:\.

**Note** If you are using Windows Vista or 7, you will need to change the Snapshot location. Windows UAC does not allow internet programs to write directly to C:\ for security reasons.

# System

**Note** The System tab is only accessible by the Administrator.

## System

**Host Name** – The Host Name is used to identify the camera on your system. If camera based Motion Detection is enabled and is set to send alarm message by Mail/FTP, the host name entered here will display in the alarm message.

**Time Zone** – Select your time zone.

**Sync With Computer Time** – Select to synchronize the camera date and time with the connected DVR.

**Manual** – Set video date and time manually.

**Sync with NTP server** – Network Time Protocol (NTP) is an alternate way to synchronize your camera's clock with a NTP server. Specify the server you wish to synchronize in the **NTP Server** box. Then select an **Update Interval**. For more information about NTP, visit [www.ntp.org](http://www.ntp.org).

# Security

The screenshot shows the 'Security' section of the OpenEye interface. The left sidebar contains a navigation menu with the following items: System, **Security** (which is currently selected), Network, DONS, Mail, FTP, Motion detection, Storage management, Recording, File location, View log file, View user information, View parameters, Factory default, Software version, Software upgrade, and Maintenance. The main content area is titled 'Admin Password' and contains fields for 'Admin password' and 'Confirm password', both showing masked input. A 'Save' button is located to the right of the confirm password field. Below this is the 'Add User' section, which includes fields for 'User name' and 'User password', and checkboxes for 'I/O access' (checked), 'Camera control' (unchecked), 'Talk' (unchecked), and 'Listen' (unchecked). A 'Save' button is located to the right of the user password field. The 'Manage User' section shows a dropdown menu with the option '-- no user --' and buttons for 'Delete' and 'Edit'.

## Admin Password

To change the administrator password, type a new password in the Admin Password box and confirm below.

**Note** The maximum length of the password is 14 characters. The following characters are valid: A-Z, a-z, 0-9, !#\$%&'-.@^\_~.

## Add User

---

The user name and password limited to 16 characters. There is a maximum of twenty user accounts

1. Type the new **User name** and **Password**
2. Select the appropriate check boxes to give the user **Camera Control**, **Talk** and **Listen** permissions.  
**I/O access** – Basic functions that enable users to view video when accessing to the camera.  
**Camera control** – Allows the User to change camera parameters on the Camera tab.
3. Click **Add**.

**Note** The CM-611 and CM-711 IP Cameras do not utilize the talk function

## Delete user

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1. Select the user name on the **User Name** list
2. Click **Delete** to remove the user.

## Edit user

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1. Select the user name on the **User Name** list
2. Click **Edit** to edit the user password and permissions.
3. Type a new password or the existing password in the User password box

**Note** You must type a password in the User password box before making any changes to an account.

**Note** For security reasons every time the user properties are opened, the access boxes are automatically cleared. Make sure you select any user access options each time you edit the user properties.

# Network

General

Get IP address automatically

Use fixed IP address

IP address

Subnet mask

Default gateway

Primary DNS

Secondary DNS

Advanced

Web Server port

RTSP port

MJPEG over HTTP port

UPnP Setting

Enable UPnP

Enable UPnP port forwarding

Friendly name

Save

Save

You can choose to use a fixed IP address or a dynamic IP address (assigned by a DHCP server or router) for the camera.

## Get IP address automatically (DHCP)

The camera comes preconfigured with a fixed IP address, selecting **Get IP address automatically** requires a router or DHCP server to assign an IP address to the camera.

**Note** Every network device has a unique Media Access Control (MAC) address that can be used for identification. The MAC address is located on the bottom of each camera, and on the box label (OpenEye IP Finder also displays the MAC address for identification). Record your camera's MAC address for identification in the future.

## Use fixed IP address

---

To set up a new static IP address:

1. Select the **Use fixed IP address** option.
2. Type a new IP address in the **IP address** box.
3. Type a new address in the **Default Gateway** box.
4. Click **Save** to confirm the new setting.

<input checked="" type="radio"/> Use fixed IP address	
IP address	10.4.4.12
Subnet mask	255.0.0.0
Default gateway	10.0.0.50
Primary DNS	10.0.0.16
Secondary DNS	0.0.0.0

When using static IP address to log in to the IP Camera, you can access it either through OpenEye IP Finder software or type the IP address directly in the Address bar of your internet browser.

### General

- **IP address** – The IP Address is necessary for network identification.
- **Subnet mask** – Used to determine if the destination is in the same subnet. The default value is 255.255.255.0.
- **Default gateway** – Used to forward frames to destinations in different subnets or for internet access.
- **Primary DNS** – The primary domain name server that translates hostnames into IP addresses. This is usually the gateway or router address.
- **Secondary DNS** – A secondary domain name server that backups the primary DNS.
- **Web Server port** – Defines the port that Internet Explorer uses to connect over the web and view video. If this port is changed then the new port must be defined when attempting to web connect (ex: if your camera's IP address is 192.168.0.100 and you change the web port to 8001, then you must type <http://192.168.0.100:8001> in your browser).

### Advanced

- **RTSP port** – The default RTSP port is 554; setting range: 1024 ~65535.
- **MJPEG over HTTP port** – The default HTTP Port is 8008; setting range: 1024 ~65535.

**Note** The MJPEG over HTTP port must not be the same as the web server port.

## DDNS

DDNS (Dynamic Domain Name Service) is a service that allows a connection to an IP address using a hostname (URL) address instead of a numeric IP address. Most Internet Service Providers use Dynamic IP Addressing that frequently changes the public IP address of your internet connection; this means that when connecting to the camera over the internet, you need to know if your IP address has changed. DDNS automatically redirects traffic to your current IP address when using the hostname address.

The screenshot shows the 'DDNS' configuration page of the OpenEye interface. The left sidebar lists various system settings. The main form is titled 'DDNS' and contains the following fields:

- Enable DDNS**: A checkbox that is currently unchecked.
- Provider**: A dropdown menu set to 'DynDNS.org(Dynamic)'.
- Host name**: An empty text input field.
- Username/E-mail**: An empty text input field.
- Password/Key**: An empty text input field.
- Save**: A button to save the configuration.

- **Enable DDNS** – Select the check box to enable DDNS.
- **Provider** – Select a DDNS host from the Provider list.
- **Host name** – Type the registered domain name in the field.
- **Username/E-mail** – Type the username or e-mail required by the DDNS provider for authentication.
- **Password/Key** – Type the password or key required by the DDNS provider for authentication.

## Mail

The camera can send an e-mail via Simple Mail Transfer Protocol (SMTP) when motion is detected. SMTP is a protocol for sending e-mail messages between servers. SMTP is a relatively simple, text-based protocol, where one or more recipients of a message are specified and the message text is transferred. The configuration page is shown as follows:

The screenshot shows the OpenEye camera configuration interface. The top navigation bar includes links for Home, System, Streaming, Camera, and Logout. The left sidebar contains a vertical list of configuration categories: System, Security, Network, DDNS, Mail (which is currently selected and highlighted in blue), FTP, Motion detection, Storage management, Recording, File location, View log file, View user information, View parameters, Factory default, Software version, Software upgrade, and Maintenance. The main content area is titled 'Mail' and specifically 'SMTP'. It contains fields for configuring two SMTP accounts. The first account is set up with the following values:

1st SMTP (mail) server	<input type="text"/>
1st SMTP (mail) server port	25
1st SMTP account name	<input type="text"/>
1st SMTP password	<input type="text"/>
1st recipient email address	<input type="text"/>

The second account is set up with the following values:

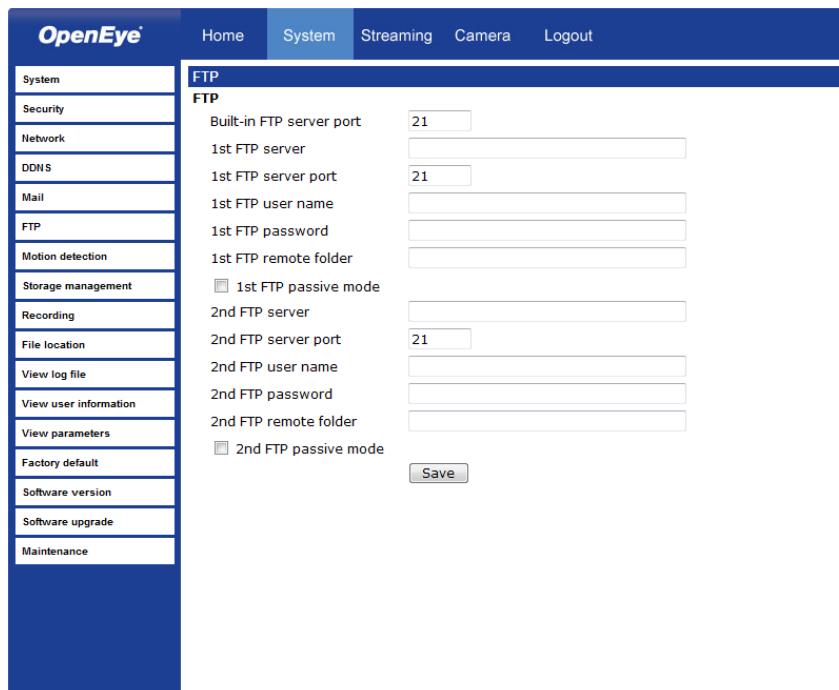
2nd SMTP (mail) server	<input type="text"/>
2nd SMTP (mail) server port	25
2nd SMTP account name	<input type="text"/>
2nd SMTP password	<input type="text"/>
2nd recipient email address	<input type="text"/>

Below these fields is a 'Sender email address' input field and a 'Save' button.

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.

## FTP

The camera can send alarm message to a specific File Transfer Protocol (FTP) site when motion is detected. You can assign alarm message to up to two FTP sites.



The screenshot shows the OpenEye camera configuration interface. The left sidebar contains a navigation menu with the following items: System, Security, Network, DDNS, Mail, **FTP**, Motion detection, Storage management, Recording, File location, View log file, View user information, View parameters, Factory default, Software version, Software upgrade, and Maintenance. The main content area is titled 'FTP' and contains the following configuration fields:

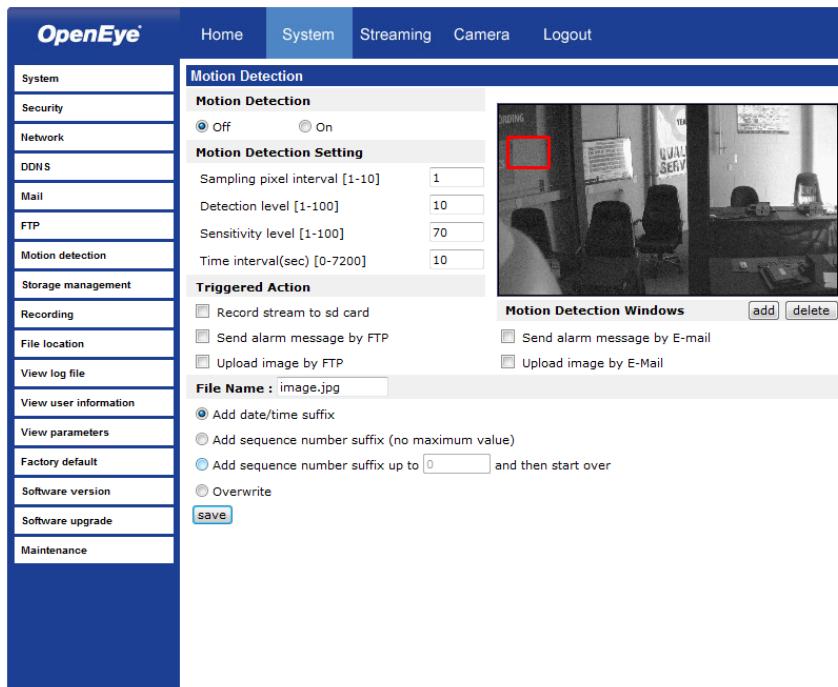
Built-in FTP server port	21
1st FTP server	<input type="text"/>
1st FTP server port	21
1st FTP user name	<input type="text"/>
1st FTP password	<input type="text"/>
1st FTP remote folder	<input type="text"/>
<input type="checkbox"/> 1st FTP passive mode	
2nd FTP server	<input type="text"/>
2nd FTP server port	21
2nd FTP user name	<input type="text"/>
2nd FTP password	<input type="text"/>
2nd FTP remote folder	<input type="text"/>
<input type="checkbox"/> 2nd FTP passive mode	

At the bottom right of the form is a 'Save' button.

1. Enter the FTP details, which include server, server port, user name, password and remote folder, in the appropriate boxes.
2. Click **Save** when finished.

## Motion Detection

Motion Detection allows the camera to detect motion and trigger alarms when the motion level in the detected area exceeds the determined sensitivity threshold value.

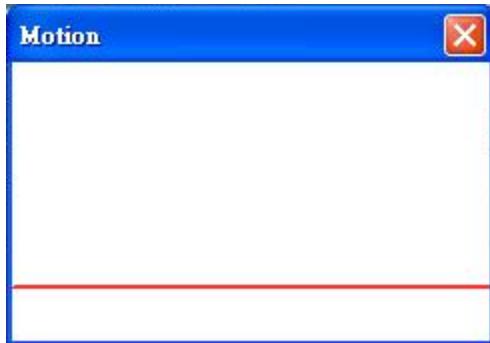


In the Motion Detection page, there is a motion detection window (red box) displayed on the Live View Pane. The Motion Detection window defines the motion detection area. To change the size of the Motion Detection window, drag the edge of the frame to resize.

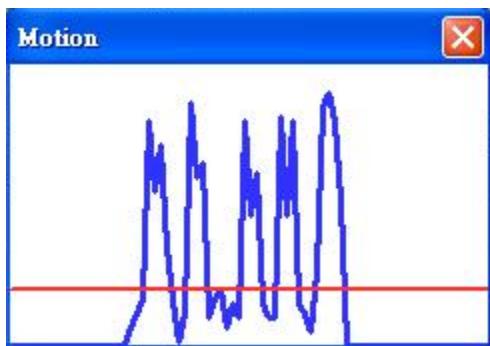
You can add up to 10 motion detection windows.

- Click **add** under the Live View Pane to add a Motion Detection window.
- To delete a Motion Detection window, use the mouse to select the frame and click **delete**.

When motion detection is activated, the **Motion** pop-up window will open.



When motion is detected, the signals will be displayed on the Motion window as shown below.



### **Motion Detection**

Turn motion detection on or off. The default setting is Off.

### **Motion Detection Setting**

- **Sampling pixel interval [1-10]** – Default value is 10, which means system will take one sampling pixel for every 10 pixels.
- **Detection level [1-100]** – Default detection level is 10. This item sets the detection level for each sampling pixel; the smaller the value, the more sensitive it is.
- **Sensitivity level [1-100]** – The default sensitivity level is 80, which means if 20% or more sampling pixels are detected as changing, the system will detect motion. The bigger the value, the more sensitive it is. As the sensitivity value is increased, the red horizontal line in the motion indication window will be lowered accordingly.
- **Time interval (sec) [0-7200]** – The default interval is 10. The value is the interval between each detected motion event.

## Triggered Action

You can specify which actions the camera should take when motion is detected.

- **Send Alarm Message by FTP/E-Mail** – Select to send an alarm message to a configured FTP and/or E-Mail address when motion is detected. When sending to email, the alarm notification is text only. When sending to FTP, the alarm notification will upload a text file to the FTP location.
- **Upload Image by FTP** – Select to assign an FTP site and configure various parameters as shown in the figure below. When motion is detected, event images will be uploaded to the appointed FTP site.

Upload Image by FTP

FTP address	FTP1
Pre-trigger buffer	5 frames
Post-trigger buffer	5 frames
<input type="checkbox"/> Continue image upload	
<input checked="" type="radio"/> Upload for 1 sec	
<input type="radio"/> Upload during the trigger active	
Image frequency	Max. fps

**Upload Image by E-Mail** – Select to assign an e-mail address and configure various parameters as shown in the figure below. When motion is detected, event images will be sent to the appointed e-mail address.

Upload Image by E-Mail

E-Mail address	E-Mail 1
Pre-trigger buffer	5 frames
Post-trigger buffer	5 frames
<input type="checkbox"/> Continue image upload	
<input checked="" type="radio"/> Upload for 1 sec	
<input type="radio"/> Upload during the trigger active	
Image frequency	Max. fps

**Note** Make sure SMTP or FTP configuration has been completed. See the Mail and FTP sections for more information.

**File Name** – Enter a file name in the box, ex. image.jpg. The uploaded image's file name format can be set in this section. Please select the one that meets your requirements.

- **Add date/time suffix**

File name: imageYYMMDD\_HHNNSS\_XX.jpg

Y: Year, M: Month, D: Day

H: Hour, N: Minute, S: Second

X: Sequence Number

- **Add sequence number suffix (no maximum value)**

File name: imageXXXXXX.jpg

X: Sequence Number

- **Add sequence number suffix (limited value)**

File Name: imageXX.jpg

X: Sequence Number

The file name suffix will end at the value entered in this box. For example, if the setting is up to "10," the file name will start from 00, end at 10, and then start all over again.

- **Overwrite** – The original image on the FTP site will be overwritten by the new uploaded file with a static filename.

## Storage Management

The CM-611 and CM-711 have an integrated microSD™ card that can be used to record video or images. The card slot is compatible with a microSD™ card up to 16GB.

The screenshot shows the 'Storage Management' page of the OpenEye interface. The left sidebar has a 'Storage management' link under the 'System' category. The main content area has a 'Storage Management' title. It contains three sections: 'Device information', 'Device setting', and 'Disk cleanup setting'. 'Device information' shows the device type as 'SD card', free space as '0 KB', and total size as '0 KB'. 'Device setting' includes a 'Format' button. 'Disk cleanup setting' allows enabling automatic disk cleanup, removing recordings older than 1 day, and removing oldest recordings when disk is 85% full. 'Recording list' shows a table with columns 'FileName' and 'Size', with buttons for 'Remove', 'Sort', and 'download'.

**Device Information** – Displays the storage total size and free space information of the included microSD™ card.

**Device Setting** – Allows you to format the microSD card.

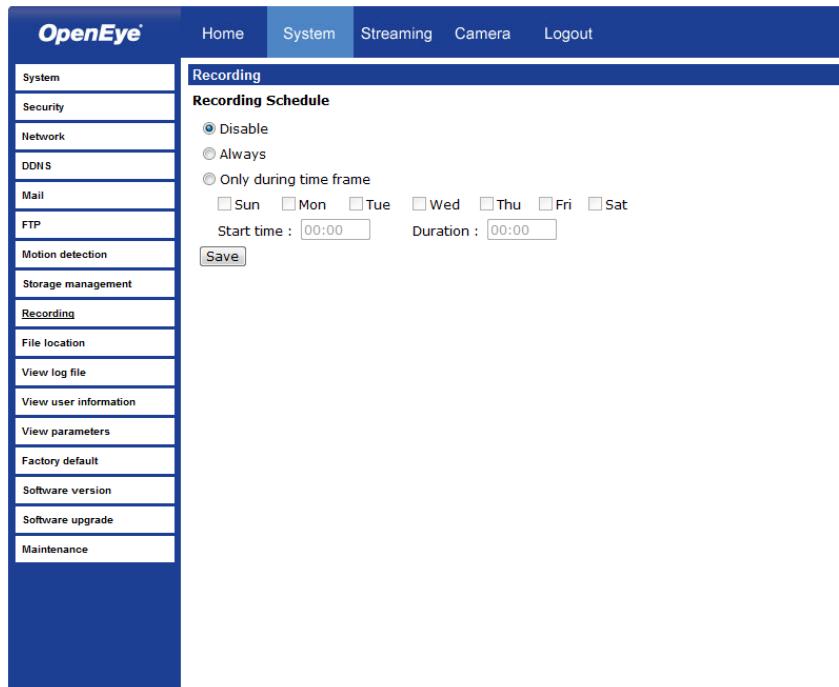
**Device Cleanup Setting** – Use this feature to enable overwrite settings on the SD card. The camera can remove files from the card after they reach a certain age, or when the card is a certain percent full.

**Recording List** – Displays a list of files saved to the card. You can delete files from the card, or save them to your local PC.

**Note** If you are using Windows Vista or 7, you will need to change the Snapshot location. Windows UAC does not allow internet programs to write directly to C:\ for security reasons.

## Recording

The recording schedule allows you to set up scheduled recording to the microSD™ card.



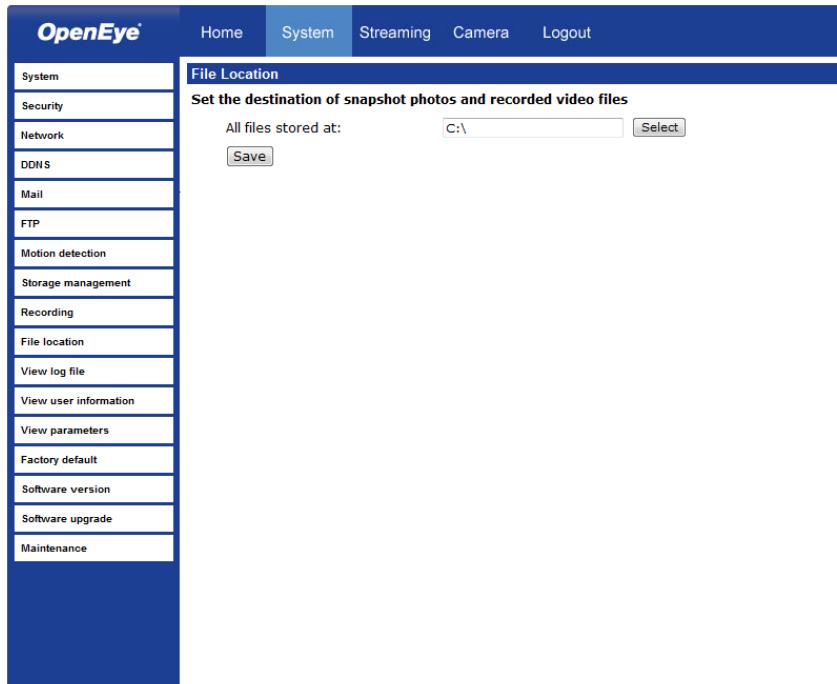
The screenshot shows the OpenEye web interface with a blue header bar. The header contains the OpenEye logo and navigation links: Home, System (which is the active tab), Streaming, Camera, and Logout. The main content area has a dark blue header bar with the text 'Recording' and 'Recording Schedule'. Below this, there are three radio button options: 'Disable' (selected), 'Always', and 'Only during time frame'. Under 'Only during time frame', there is a list of days of the week with checkboxes: Sun, Mon, Tue, Wed, Thu, Fri, Sat. Below the days is a 'Start time' input field containing '00:00' and a 'Duration' input field also containing '00:00'. At the bottom of the content area is a 'Save' button. The left sidebar is a vertical list of menu items under the 'System' category, including: System, Security, Network, DDNS, Mail, FTP, Motion detection, Storage management, Recording (which is the active category), File location, View log file, View user information, View parameters, Factory default, Software version, Software upgrade, and Maintenance.

**Recording Schedule** – The camera can be set up to record continuously until the card is full (or overwrite old data, see the Storage Management section). The camera can also be set up to record only during a scheduled time. Select the days that you would like to record, then input the recording start time and the recording duration.

## **Snapshot**

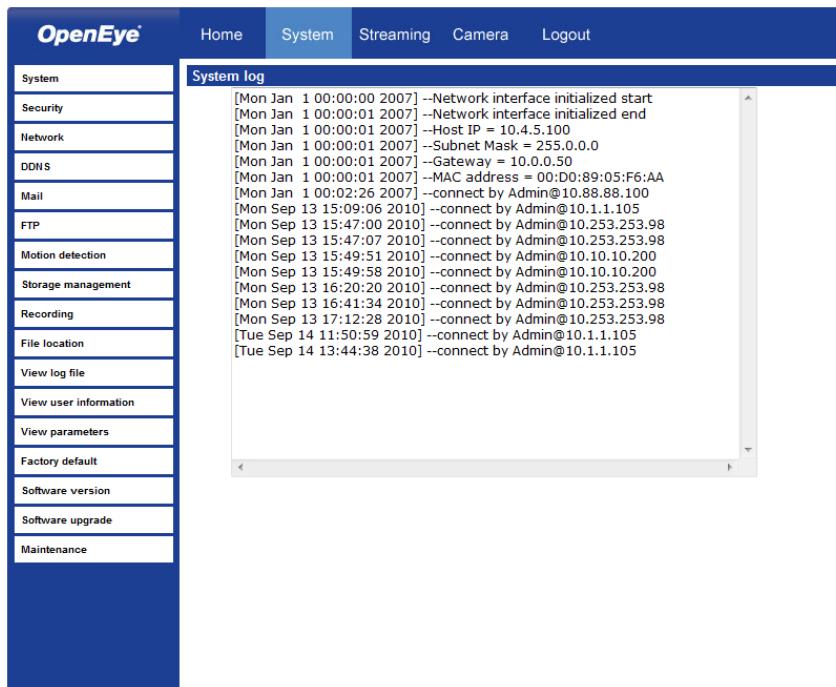
The camera supports a JPEG snapshot function. You can specify a storage location for the snapshot images. The default location is: C:\.

- Note** If you are using Windows Vista or 7, you will need to change the Snapshot location. Windows UAC does not allow internet programs to write directly to C:\ for security reasons.
- Note** Make sure the selected file path contains valid characters such as letters and numbers.



## View Log File

Click **View Log File** to view the system log file. The content of the file provides useful information about configuration and connections.



The screenshot shows the OpenEye web interface with a dark blue header and a light blue sidebar. The header contains the OpenEye logo and navigation links: Home, System (which is selected and highlighted in blue), Streaming, Camera, and Logout. The sidebar on the left is titled 'System' and lists various management options: Security, Network, DDNS, Mail, FTP, Motion detection, Storage management, Recording, File location, View log file (which is selected and highlighted in blue), View user information, View parameters, Factory default, Software version, Software upgrade, and Maintenance. The main content area is titled 'System log' and displays a list of log entries. The log entries are as follows:

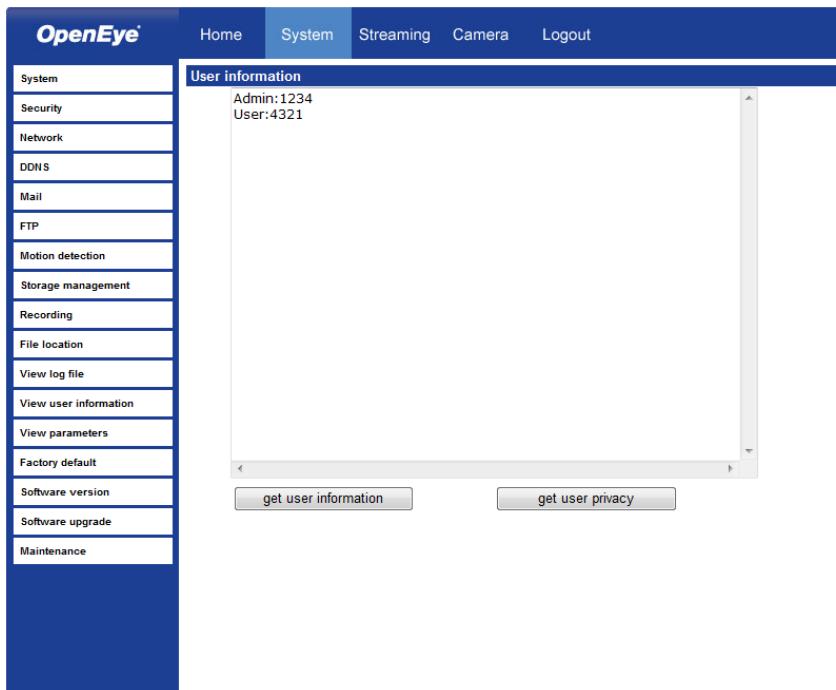
```
[Mon Jan 1 00:00:00 2007] --Network interface initialized start
[Mon Jan 1 00:00:01 2007] --Network interface initialized end
[Mon Jan 1 00:00:01 2007] --Host IP = 10.4.5.100
[Mon Jan 1 00:00:01 2007] --Subnet Mask = 255.0.0.0
[Mon Jan 1 00:00:01 2007] --Gateway = 10.0.0.50
[Mon Jan 1 00:00:01 2007] --MAC address = 00:D0:89:05:F6:AA
[Mon Jan 1 00:02:26 2007] --connect by Admin@10.88.88.100
[Mon Sep 13 15:09:06 2010] --connect by Admin@10.1.1.105
[Mon Sep 13 15:47:00 2010] --connect by Admin@10.253.253.98
[Mon Sep 13 15:47:07 2010] --connect by Admin@10.253.253.98
[Mon Sep 13 15:49:51 2010] --connect by Admin@10.10.10.200
[Mon Sep 13 15:49:58 2010] --connect by Admin@10.10.10.200
[Mon Sep 13 16:20:20 2010] --connect by Admin@10.253.253.98
[Mon Sep 13 16:41:34 2010] --connect by Admin@10.253.253.98
[Mon Sep 13 17:12:28 2010] --connect by Admin@10.253.253.98
[Tue Sep 14 11:50:59 2010] --connect by Admin@10.1.1.105
[Tue Sep 14 13:44:38 2010] --connect by Admin@10.1.1.105
```

## **View User Information**

The Administrator can view each user's login information and privileges on the **View User Information** page.

### **View User Login Information**

All users for the camera are listed under **User information**. The example below show that the Admin password is 1234 and there is one user named User with the password 4321.



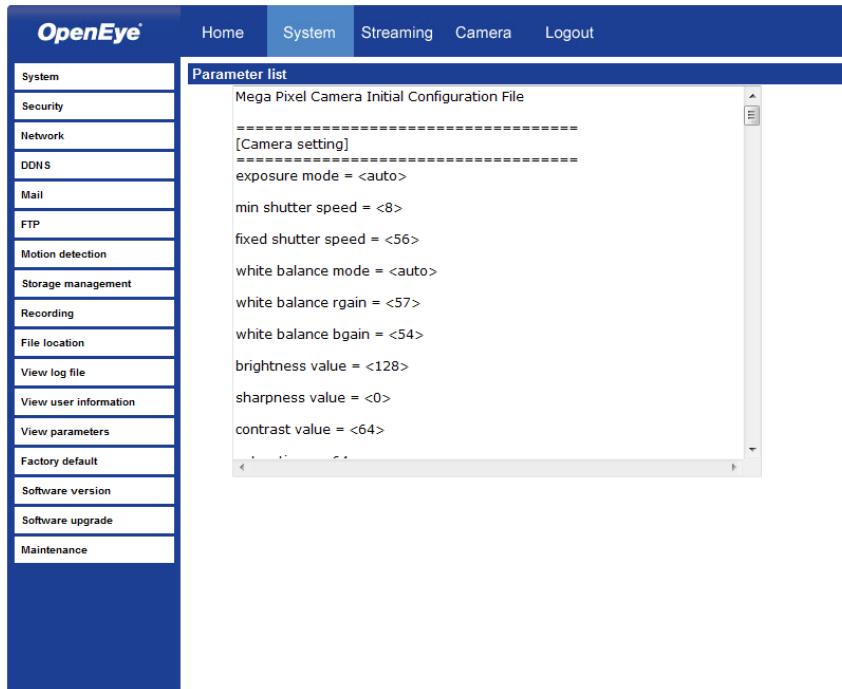
The screenshot shows the OpenEye camera configuration interface. The top navigation bar includes links for Home, System, Streaming, Camera, and Logout. The left sidebar contains a vertical list of management options: System, Security, Network, DDNS, Mail, FTP, Motion detection, Storage management, Recording, File location, View log file, View user information, View parameters, Factory default, Software version, Software upgrade, and Maintenance. The main content area is titled 'User information' and displays a list of users: Admin:1234 and User:4321. At the bottom of the page are two buttons: 'get user information' and 'get user privacy'.

### **View User Privilege**

Select a user account from the list and click **get user privacy** to view the permissions for the user account.

## **View Parameters**

Click **View Parameters** to view the system parameter settings.



**OpenEye**

Home System Streaming Camera Logout

System

Security

Network

DDNS

Mail

FTP

Motion detection

Storage management

Recording

File location

View log file

View user information

**View parameters**

Factory default

Software version

Software upgrade

Maintenance

**Parameter list**

Mega Pixel Camera Initial Configuration File

[Camera setting]

exposure mode = <auto>

min shutter speed = <8>

fixed shutter speed = <56>

white balance mode = <auto>

white balance rgain = <57>

white balance bgain = <54>

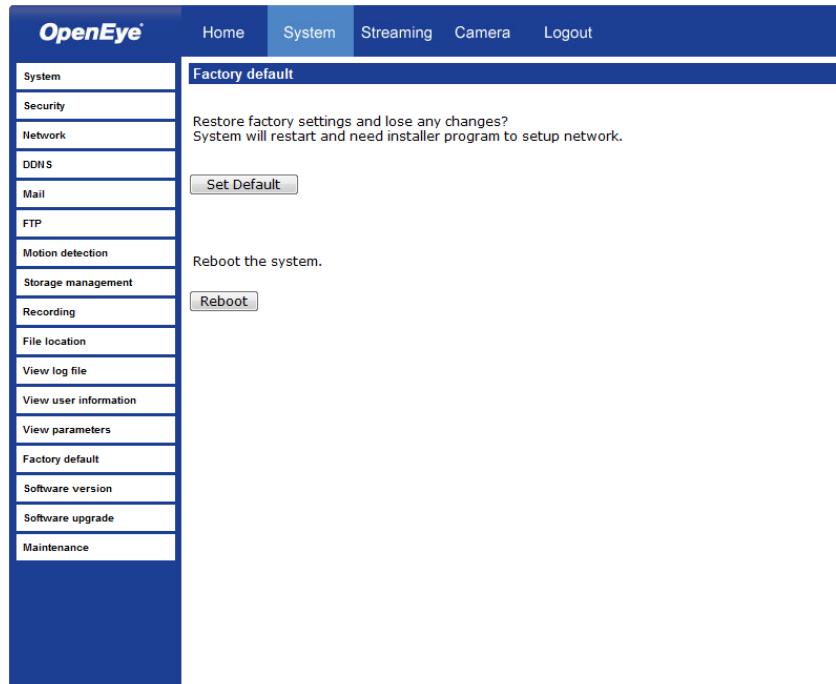
brightness value = <128>

sharpness value = <0>

contrast value = <64>

## Factory Default

Use the factory default page to reset the IP Camera to factory default settings if necessary.



The screenshot shows the OpenEye IP Camera configuration interface. The top navigation bar includes links for Home, System, Streaming, Camera, and Logout. The System menu on the left is expanded, showing options like System, Security, Network, DDNS, Mail, FTP, Motion detection, Storage management, Recording, File location, View log file, View user information, View parameters, Factory default (which is selected and highlighted in blue), Software version, Software upgrade, and Maintenance. The main content area is titled 'Factory default' and contains a warning message: 'Restore factory settings and lose any changes? System will restart and need installer program to setup network.' Below this message are two buttons: 'Set Default' and 'Reboot'. The 'Reboot' button is described as 'Reboot the system.'

### Set Default

Click **Set Default** to reset the IP camera to the factory default settings. The system will restart after 30 seconds.

**Note** The camera's IP address will be restored to the default IP address.

### Reboot

Click **Reboot** to restart the IP camera without changing the current camera settings.

## Software Version

The Software Version page displays the current software version.

The screenshot shows a web-based interface for managing a network device. The top navigation bar includes links for Home, System, Streaming, Camera, and Logout. The System link is currently selected, highlighted in blue. The left sidebar contains a list of management options: System, Security, Network, DDNS, Mail, FTP, Motion detection, Storage management, Recording, File location, View log file, View user information, View parameters, Factory default, Software version, Software upgrade, and Maintenance. The 'Software version' option is also highlighted in blue. The main content area displays the text "The software version is **620100721NS**".

## Software Upgrade

The screenshot shows the 'Upgrade' section of the OpenEye software interface. The left sidebar lists various system management options. The main area is titled 'Upgrade' and contains three steps:

- Step 1:** Upload the binary file. A file input field and a 'Browse...' button are shown.
- Step 2:** Select binary file you want to upgrade. A dropdown menu is set to 'userland.jffs2'.
- Step 3:** Click the upgrade button to start the upgrade process. A 'Upgrade' button is present.

## Upgrading the Camera Viewer Software

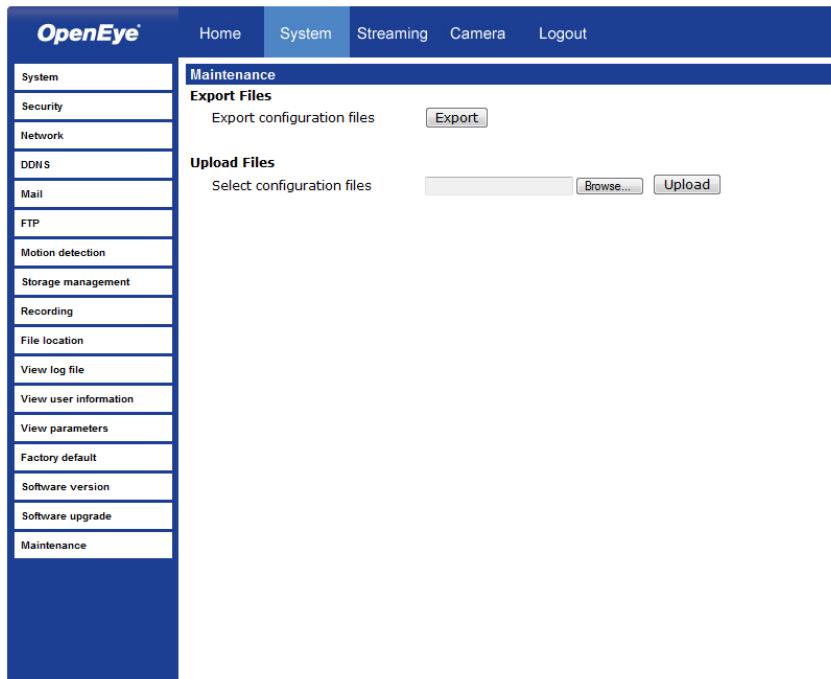
**Note** Make sure the new firmware file is available before starting a software upgrade. Do not change the file name, or the system will not be able to update to the new firmware.

1. Click **Browse** and select the firmware file.
  2. Select the file type from the list under **Step 2**.
  3. Click **Upgrade**. The system will check the upgrade file, and then upload the file. The upgrade status bar will display on the page.
- When the upgrade process is complete the viewer will return to the Home page. After updating it is important to make sure the camera viewer is updated:
4. Close the browser.
  5. Go to the **Windows Control Panel** and double-click **Add or Remove Programs**. Locate the **Camera Viewer** software on the **Currently installed programs** list, and click **Remove** to uninstall the previous software version.
  6. Open the internet browser again and login to the IP camera. The system will automatically download the new version of the Camera Viewer software.

## Maintenance

Export the current configuration of the camera, or import the configuration for a camera.

**Note** Do not import configuration files from different models of cameras.



The screenshot shows the OpenEye maintenance interface. The left sidebar contains a vertical list of maintenance options: System, Security, Network, DDNS, Mail, FTP, Motion detection, Storage management, Recording, File location, View log file, View user information, View parameters, Factory default, Software version, Software upgrade, and Maintenance. The main content area is titled 'Maintenance' and contains two sections: 'Export Files' and 'Upload Files'. The 'Export Files' section has a 'Select configuration files' input field, a 'Browse...' button, and an 'Export' button. The 'Upload Files' section has a 'Select configuration files' input field, a 'Browse...' button, and an 'Upload' button.

# Video and Audio Streaming Settings

On the Streaming tab, you can configure specific video resolution, video compression mode, video protocol and audio transmission mode.

## Video Format

Select the desired video resolution for the camera on the Video Format page. The DVR will record video based on the resolution selected here.

**Video Resolution :**

- H.264 720p (30fps) + MJPEG 720p (30fps)
- H.264 720p (30fps) + MJPEG D1 (30fps)
- H.264 720p (30fps) + MJPEG CIF (30fps)
- H.264 720p (30fps) + H.264 D1 (30fps)
- H.264 720p (30fps) + H.264 CIF (30fps)
- MJPEG 1080p (15fps)
- H.264 1080p (15fps)

**Note :**  
Image attachment by FTP or E-mail will be available only while MJPEG streaming is selected.

**Text Overlay Settings :**

Include date       Include time  
 Include text string:   
**Save**

**Video Rotate Type :**

Normal video       Flip video  
 Mirror video       180 degree rotate  
**Save**

**GOV Settings :**

## Text Overlay Settings

You can set up a text overlay for the transmitted video that can include the date, time, or custom text.

## Video Rotate Type

---

You can change the orientation of the video output if necessary.

- Normal transmits the image as the camera sees it.
- Flip transmits the image backwards and upside down.
- Mirror transmits a mirror image.
- 180 degree transmits the image upside down.

## GOV Settings

---

Sets the Group of Video (GOV) or Group of Pictures (GOP) length for the H.264 streams. Use this to increase bandwidth if necessary.

## Video Compression

You can select an MJPEG/H.264 compression mode on the video compression page appropriate for your application. You can also select to display compression information on the Home page.

The screenshot shows a web-based configuration interface for video compression. The top navigation bar includes links for Home, System, Streaming, Camera, and Logout. The left sidebar has a menu with Video Format, Video Compression (which is selected), Video OCX Protocol, Frame Rate Control, and Video Mask. The main content area is titled 'Video Compression'.

**MJPEG Compression setting :**

- high compression , low bitrate , low quality
- middle compression , default
- low compression , high bitrate , high quality

**H.264 Compression setting :**

- 1024kbps,highest compression , lowest quality
- 2048kbps
- 4096kbps,middle compression,default
- 6144kbps
- 8192kbps,low compression , highest quality

**Display compression information in the home page**

**CBR mode setting :**

- enable H.264-1 CBR mode
- enable H.264-2 CBR mode

### MJPEG compression settings include:

- high compression, low bitrate, low quality
- middle compression, default
- low compression, high bitrate, high quality

### H.264 compression settings include:

- 1024kbps, highest compression, lowest quality
- 2048kbps
- 4096kbps, middle compression, default
- 6144kbps
- 8192kbps, low compression, highest quality

## Video OCX Protocol

On the Video OCX protocol page, you can select different protocols for streaming media over the network. In the case of multicast networking, you can select the Multicast mode.

The screenshot shows the 'Video OCX Protocol' configuration page. The left sidebar has links for 'Video Format', 'Video Compression', 'Video OCX Protocol' (which is selected), 'Frame Rate Control', and 'Video Mask'. The main content area has a title 'Video OCX Protocol' and a sub-section 'Video OCX protocol setting :'. It lists several protocol options with radio buttons: RTP over UDP (selected), RTP over RTSP(TCP), RTSP over HTTP, MJPEG over HTTP, and Multicast mode. Below these are input fields for Multicast IP Address (0.0.0.0), Multicast H.264-1 Video Port (0), Multicast H.264-2 Video Port (0), Multicast MJPEG Video Port (0), Multicast Audio Port (0), and Multicast TTL (1). A 'Save' button is at the bottom left, and a note at the bottom right states: 'Note: This page only applies to video streams going to a DC Viewer.'

Video OCX protocol setting options include:

- RTP over UDP
- RTP over RTSP(TCP)
- RTSP over HTTP
- MJPEG over HTTP

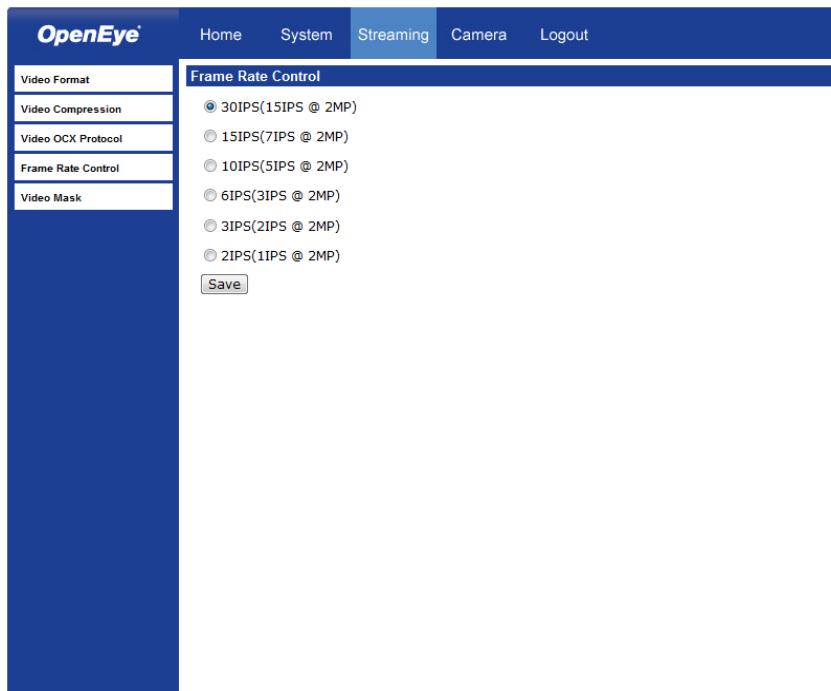
Select a mode according to your data delivery requirements. If you are transmitting over the internet using a router and port forwarding, you will need to use RTP over RTSP (UDP). You will also need to forward the RTSP port to the camera (see the network setup page to find the RTSP port).

## Multicast Mode

1. Enter all required data, including multicast IP address, H.264 video port, MJPEG video port, audio port and TTL into each box.
2. Click **Save** to confirm the setting.

## Frame Rate Control

Setting the camera to transmit fewer frames can save bandwidth. Use the Frame Rate Control to adjust the camera's frame settings if necessary.

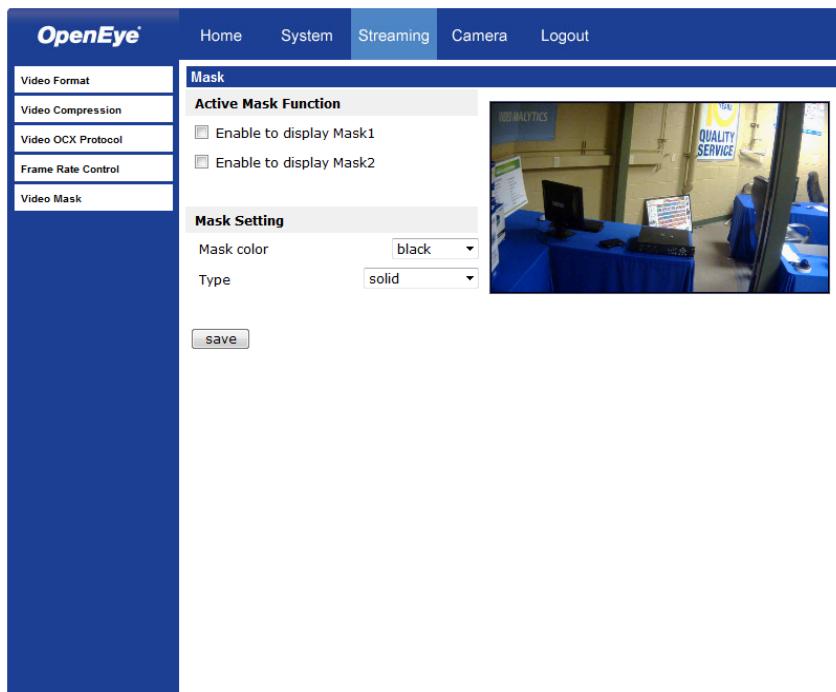


The screenshot shows a web-based camera configuration interface for 'OpenEye'. The top navigation bar includes links for Home, System, Streaming (which is the active tab), Camera, and Logout. On the left, a sidebar menu lists Video Format, Video Compression, Video OCX Protocol, Frame Rate Control (which is the current page), and Video Mask. The main content area is titled 'Frame Rate Control' and contains a list of frame rate options. The '30IPS(15IPS @ 2MP)' option is selected, indicated by a checked radio button. Other options listed are 15IPS(7IPS @ 2MP), 10IPS(5IPS @ 2MP), 6IPS(3IPS @ 2MP), 3IPS(2IPS @ 2MP), and 2IPS(1IPS @ 2MP). A 'Save' button is located at the bottom of the list.

Frame Rate	Notes
30IPS(15IPS @ 2MP)	Selected
15IPS(7IPS @ 2MP)	
10IPS(5IPS @ 2MP)	
6IPS(3IPS @ 2MP)	
3IPS(2IPS @ 2MP)	
2IPS(1IPS @ 2MP)	

## Video Mask

You can use the video mask page to define a privacy mask to keep users from viewing parts of the image.



You can add two privacy masks and choose a color to obscure the live view from users.

## *Audio*

On the Audio page, you can select an audio transmission mode and audio bit rate. Audio is only available on the CM-611.

**OpenEye**

Home   System   **Streaming**   Camera   Logout

**Video Format**

**Video Compression**

**Video OCX Protocol**

**Video Frame Skip**

**Video Mask**

**Audio**

**Audio**

**Transmission Mode:**

Simplex (Listen only)  
 Disable

**Server Gain Setting:**

Input gain:

Bit Rate:

**Note** Audio monitoring and recording laws vary from location to location. It is highly recommended that you consult your local, state and federal laws to verify that you are in compliance before implementing audio recording.

## Transmission Mode

- **Simplex (Listen only)** – The local/remote site can only listen to the other site.
  - **Disable** – Turn off the audio transmission function.

## Bit Rate

Selectable audio transmission bit rate include:

16 kbps (G.726)

## ALAW (G.711)

24 kbps (G.726)

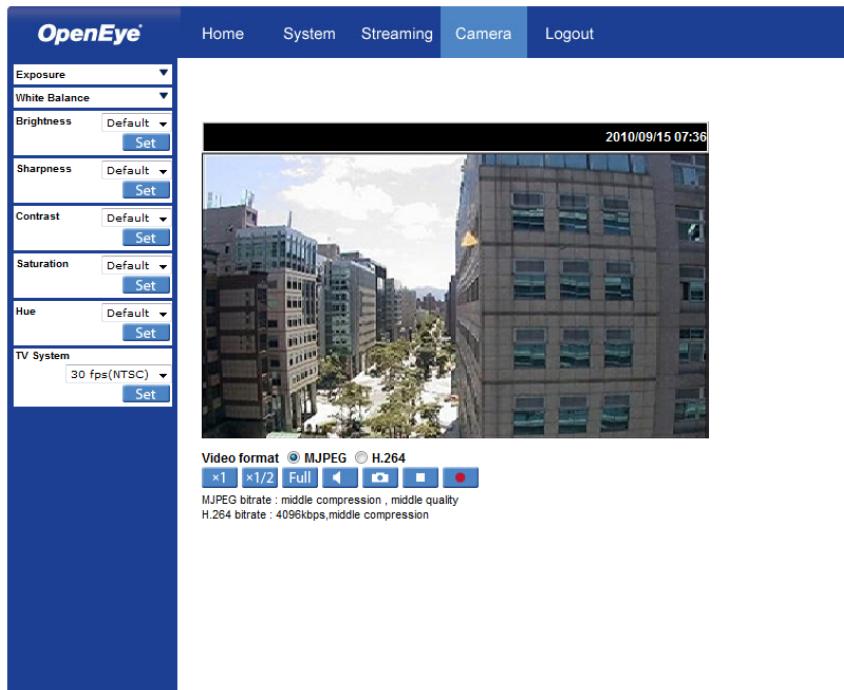
32 kbps (G.726)

40 kbps (G.726)

## uLAW (G.711)

Both uLAW and ALAW signify 64 kbps but in different compression formats. Higher bit rate will provide higher audio quality and require more bandwidth.

# Camera



## Exposure

The exposure is the amount of light received by the image sensor and is determined by the width of lens diaphragm opening (iris adjustment), the amount of exposure by the sensor (shutter speed) and other exposure parameters.

### Full Auto Mode

- In Full Auto mode, the camera's Shutter Speed, IRIS and AGC (Auto Gain Control) control circuits work together automatically to set a consistent video output level. The maximum shutter speed is adjustable from 1/30 to 1 sec.

### Fixed Shutter Mode

- In Fixed Shutter mode, the shutter speed is user selectable. The shutter speed range is from 1/10000 to 1 sec. with 19 options. You can select suitable shutter speed according to the environmental illumination.

## **White Balance**

A camera needs to find reference color temperature, which is a way of measuring the quality of a light source, for calculating all the other colors. The unit for measuring this ratio is in degree Kelvin (K). Users can select one of the White Balance Control modes according to the operating environment. The following table shows the color temperature of some light sources for reference.

Light Source	Color Temperature in K
Cloudy Sky	6,000 to 8,000
Noon Sun and Clear Sky	6,500
Household Lighting	2,500 to 3,000
75-watt Bulb	2,820
Candle Flame	1,200 to 1,500

### **Auto Mode**

- In Auto mode, white balance works within its color temperature range and calculates the best-fit white balance.

### **Manual Mode**

- In Manual mode, you can change the White Balance value manually, adjusting the R gain and B gain.

## **Brightness**

Adjust the image's brightness on the camera. The Backlight value is adjustable from -12 (dim) ~ +13 (brightest).

## **Sharpness**

Increasing the sharpness level can make the image looked sharper; it especially enhances an object's edge. The value of sharpness is adjustable from +1 ~ +15 (sharpest) besides to default value.

## **Contrast**

Correct the contrast of the entire image by adjusting the Contrast level, ranging from -6 ~ +19.

## ***Saturation***

Adjust the saturation of color components in an image through the Saturation function, which is adjustable from -6 ~ +19.

## ***Hue***

Adjust the hue of color components in an image with the Hue function, which is adjustable from -12 ~ +13.

## ***TV System***

Select the video format that matches the present video system. United States and Canada use the NTSC standard, Europe and Asia use PAL.

## **Logout**

Click the Logout tab to change users.

# SPECIFICATIONS

## CAMERA SPECIFICATIONS

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Model	CM-611 (Indoor)	CM-711 (Outdoor)
<b>Image Sensor</b>	1/2.7" CMOS	
<b>IP Rating</b>	N/A	IP66
<b>Type / Format</b>	H.264 / MJPEG	
<b>Wide Dynamic Range</b>	Digital Wide Dynamic Range	
<b>Minimum Illumination</b>	0.6 Lux @ 50IRE, 0.1 Lux @ 30IRE	
<b>Day / Night</b>	Yes (Digital Day Night)	
<b>Resolution</b>	15 IPS @ 1080P [1920 x 1080 / 2MP] 30 IPS @ 1280 x 1024 (1.3MP) 30 IPS @ 720P [1280 x 720 / 1MP] 30 IPS @ D1 [720 x 480] 30 IPS @ CIF [352 x 240]	
<b>Service Monitor Jack</b>	No	
<b>Focal Length</b>	4 mm Fixed	
<b>Iris Control</b>	1.5 fixed	
<b>White Balance</b>	Manual / AWB / ATW	
<b>Auto White Balance Range</b>	2700 K – 7800 K	
<b>Backlight Compensation</b>	No	
<b>Auto Gain Control</b>	Auto	
<b>Operating Temperature</b>	14°F~ 122°F (-10°C ~ 50°C)	
<b>Heater</b>	No	
<b>Power Consumption</b>	3.5W	
<b>Rated Amperage</b>	0.073A	
<b>Input Voltage</b>	PoE Only	
<b>Weight</b>	0.4 lbs (0.18 kg)	
<b>Dimensions</b>	Ø4.625" (117.5 mm) x H: 1.75" (44.45 mm)	
<b>Housing / Dome Cover</b>	White / Clear	

# IP SPECIFICATIONS

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Model	CM-611 (Indoor)	CM-711 (Outdoor)
<b>Video Compression</b>	H.264 / MJPEG	
<b>Dual Streaming</b>	H.264+H.264 H.264 + MJPEG	
<b>Audio In</b>	Not Supported	
<b>Audio Out</b>	None	
<b>Alarm In</b>	0	
<b>Alarm Out</b>	0	
<b>User Account</b>	20	

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