

OpenEye[®]

Tamper Resistant IP Mini Dome

User Manual



Camera

CM-710

CM-610

Indoor/Outdoor IP Camera (CM-610 / CM-710)
User Manual

Manual Edition 30103AC – December 2010

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Important Safeguards

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.

Precautions

Operating

- Before using, make sure power supply and others are properly connected.
- While operating, if any abnormal condition or malfunction is observed, stop using the camera immediately and then contact your local dealer.

Handling

- Do not disassemble or tamper with parts inside the camera.
- Do not drop or subject the camera to shock and vibration as this can damage camera.
- 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

- Install electricity wiring carefully. Please note that input electricity to the unit is at tolerance of DC 12V/AC 24V \pm 10%. The camera is capable of surge protection; ensure AC power model unit is grounded appropriately against damage by heavy current or electric shock.
- Do not install the camera in areas of extreme temperatures in excess of the allowable range. (32°F~ 122°F / 0°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.

Regulation

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



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.

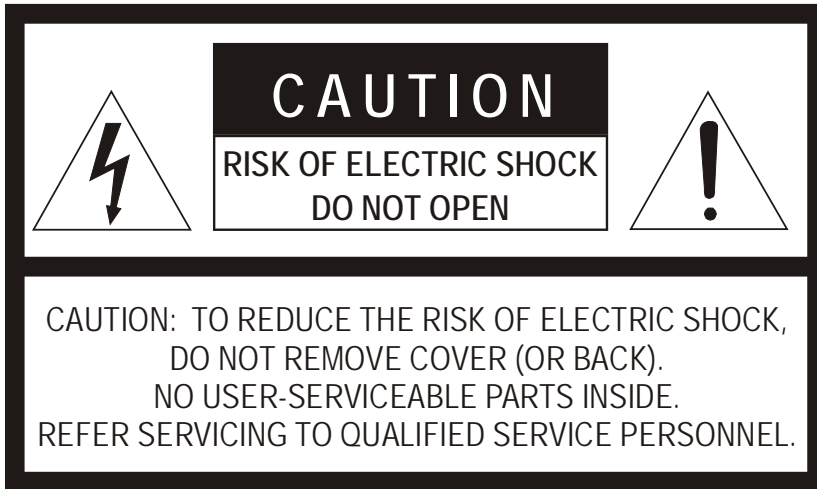


Compliance is evidenced by written declaration from our suppliers, assuring that any potential trace contamination levels of restricted substances are below the maximum level set by EU Directive 2002/95/EC, or are exempted due to their application.

Warning

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

Caution



Standard Warranty

OpenEye warrants all new products to be free from defects in workmanship and material under normal use **for a period of two years** after the date of purchase. Any defective product that falls under this warranty will, at OpenEye's discretion, be repaired or replaced at no additional charge. OpenEye may elect to replace defective products with new or factory reconditioned products of equal or greater value. Repairs made necessary by reason of misuse, alteration, normal wear, or accident are not covered under this warranty.

Exceptions to this are listed below:

- Three Years on all Digital Recorders
- Three years on all fixed cameras

All products shall be covered by a one year advance replacement warranty*.

OpenEye will warrant all otherwise out of warranty replacement parts and repairs for 90 days from the date of OpenEye shipment.

The above warranty is the sole warranty made by OpenEye and is in lieu of all other warranties by OpenEye express and implied, including without limitation the warranties of merchantability and fitness for a particular purpose. Under no circumstances will OpenEye be liable for any consequential, incidental, special or exemplary damages arising out of or connected with the sale, delivery, use or performance of the product, even if OpenEye is apprised of the likelihood of such damages occurring. In no event shall OpenEye liability exceed the purchase price of the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state or country to country.

**Requires corresponding security deposit. Advanced Replacement limited to components only outside of the USA and Canada.*

For the most up to date information visit www.openeye.net

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INTRODUCTION

OVERVIEW

The CM-610 and CM-710 Tamper Resistant IP Mini Dome cameras are capable of providing real time streaming video with smooth image quality. The IP Mini Dome cameras offer a superior H.264 codec for a high resolution digital broadcast 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 and small size of the IP Mini Dome facilitates quick and simple installation on either the ceiling or walls of structures of vehicles.

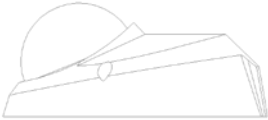
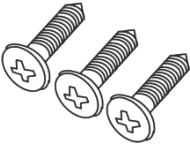




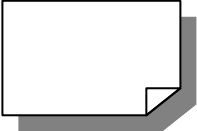

Product Features

- 1 / 2.7" progressive CMOS
- Simultaneous H.264 / MJPEG video stream (dual streaming)
- Resolution: H.264 1080p; MJPEG 1080p
- Images Per Second: 15ips@1080p; 30ips@720p
- Image Setting: Brightness, Sharpness, Contrast, White Balance, Exposure Control, Digital Zoom
- Interface 10/100 Ethernet (RJ45)
- Micro SD support
- Built-in microphone with one-way audio (CM-610 only)
- Weatherproof dangle network cable (CM-710 only)
- Weatherproof IP66 housing (CM-710 only)
- Security Torx screws to prevent unauthorized tampering

GETTING STARTED

BOX CONTENTS

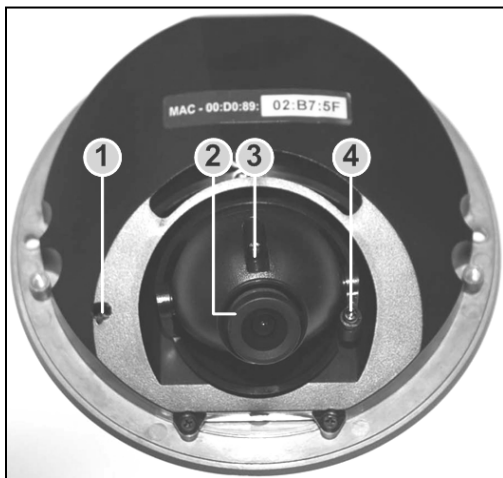
Before proceeding, please check that the box contains the items listed here. If any item is missing or has defects, DO NOT install or operate the product and contact your dealer for assistance.

		
CM-610 or CM-710 w/cable	Self Tapping Screws	Plastic Anchors
		
Security Screw	Security Torx Tool	Rubber Washers (CM-710 only)
		
Quick Start Guide	CD	

CAMERA OVERVIEW

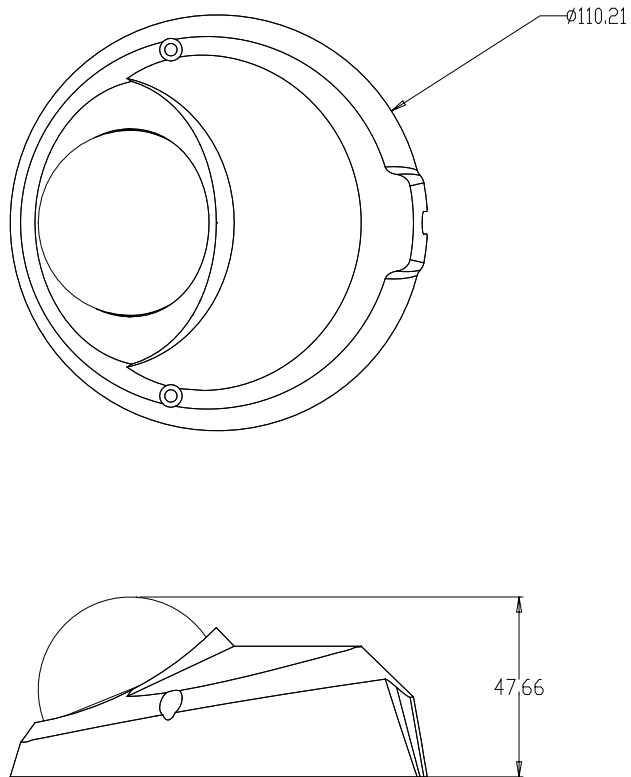
Before installing or connecting the dome camera, please refer to this section and complete preparations for dome setup and all switch settings.

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 |

Dimensions



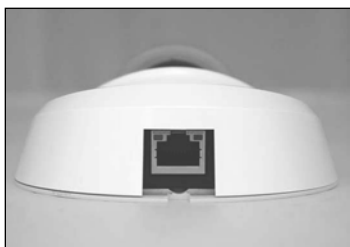
- Diameter – 110.21mm (4.3 inches)
- Height – 47.66mm (1.87inches)

Connections

Indoor Camera (CM-610)

The CM-610 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-710)

The CM-710 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.



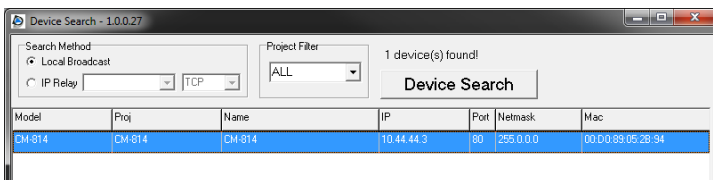
CAMERA FINDER

OPENEYE IP FINDER

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

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

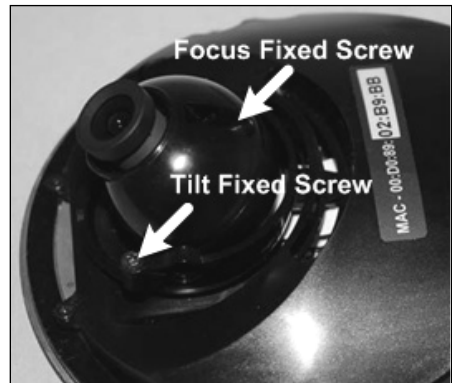
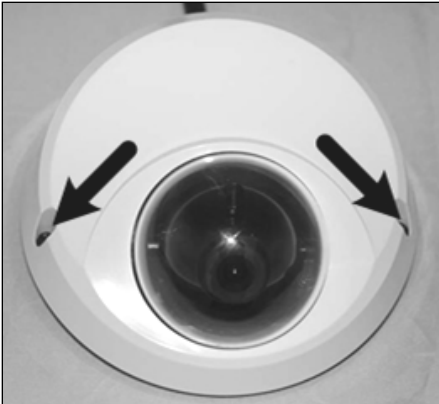
Administrator/User Privileges

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.

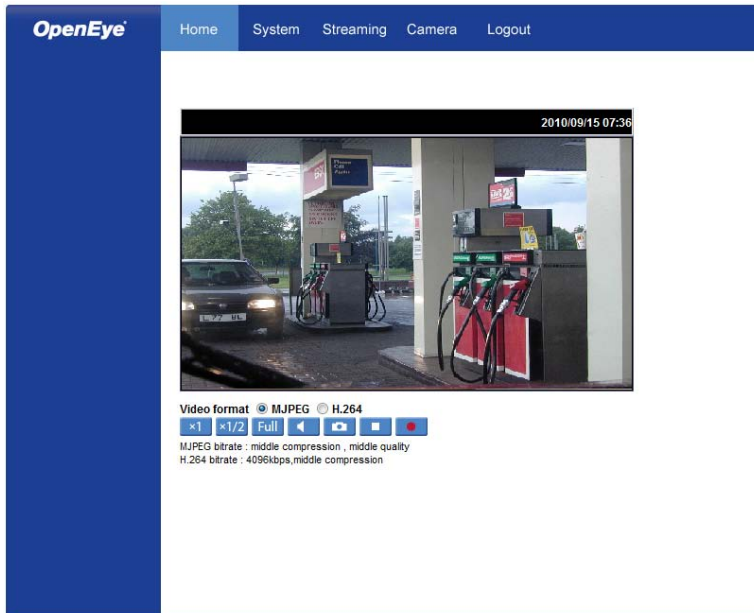
1. Remove the screws from the camera dome cover.
2. Loosen the focus fixed screw and rotate the lens counter clockwise to adjust the focus. Loosen the tilt fixed screw and adjust the camera's tilt angle.



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.

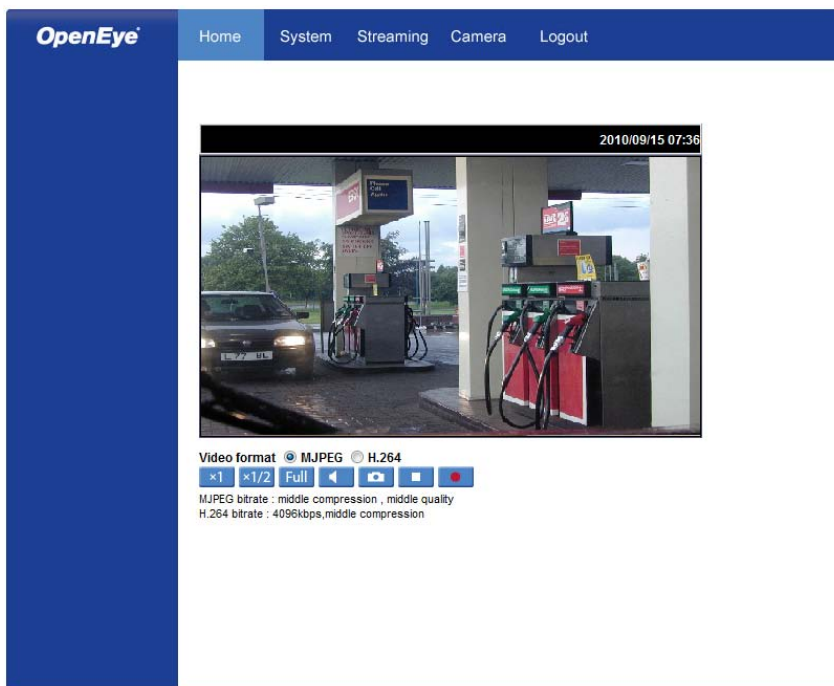
System – Set the host name, system time, root password, and network related settings. (Admin access only)

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

OpenEye Home System Streaming Camera Logout

System

Host Name : CM-610

Time zone : GMT+00:00 Gambia, Liberia, Morocco, England

☐ Enable daylight saving time

time offset: 01:00:00

Start date: Jan 1st Sun Start time: 00:00:00

End date: Jan 1st Sun End time: 00:00:00

☐ Sync with computer time

PC date: 2010/09/10 [yyyy/mm/dd]

PC time: 11:27:32 [hh:mm:ss]

☒ Manual

Date: 2007/01/01 [yyyy/mm/dd]

Time: 00:00:00 [hh:mm:ss]

☐ Sync with NTP server

NTP server: 0.0.0.0 [host name or IP address]

Update interval: Every hour

Save

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.

Security

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

Security

Admin Password

Admin password
Confirm password

Add User

User name
User password
☒ I/O access ☐ Camera control
☐ Talk ☐ Listen

Manage User

User name -- no user --

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.

Talk/Listen --Talk and Listen functions allow the user at the local site (DVR) to communicate with, the administrator at the remote site for supported cameras

3. Click **Add**.

Note The CM-610 and CM-710 IP Cameras do not utilize the talk function

Delete user

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

Edit user

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

OpenEye

HomeSystemStreamingCameraLogout

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

Network

General

☐ Get IP address automatically

☒ 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

☐ Use PPPoE

User name

Password

Save

Advanced

Web Server port

80

RTSP port

554

MJPEG over HTTP port

8008

Save

UPnP Setting

☒ Enable UPnP

☐ Enable UPnP port forwarding

Friendly name

CM-610

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)

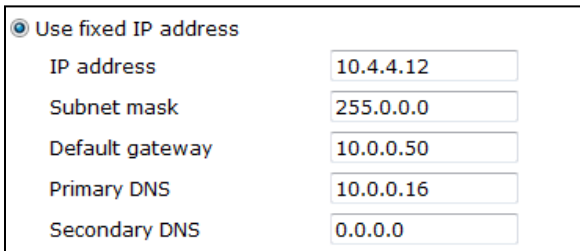
The camera comes preconfigured with a fixed IP address, selecting **Get IP address automatically** requires a router or DHCP server to assign an IP address to the camera.

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.



The screenshot shows a configuration window with the following fields and values:

Field	Value
<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 OpenEye web interface. At the top, there is a navigation bar with links: Home, System (selected), Streaming, Camera, and Logout. On the left side, there is a vertical menu with various system settings: System, Security, Network, DDNS (selected), 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 'DDNS' and contains the following configuration options:

- Dynamic DNS**
Use Dynamic DNS If You Want To Use Your DDNS Account.
- ☐ Enable DDNS
- Provider: DynDNS.org(Dynamic) (dropdown menu)
- Host name: (text input field)
- Username/E-mail: (text input field)
- Password/Key: (text input field)
- Save (button)

- **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:

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

Mail

SMTP

1st SMTP (mail) server

1st SMTP (mail) server port

1st SMTP account name

1st SMTP password

1st recipient email address

2nd SMTP (mail) server

2nd SMTP (mail) server port

2nd SMTP account name

2nd SMTP password

2nd recipient email address

Sender email address

Save

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.

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

FTP

Built-in FTP server port 21

1st FTP server

1st FTP server port 21

1st FTP user name

1st FTP password

1st FTP remote folder

☐ 1st FTP passive mode

2nd FTP server

2nd FTP server port 21

2nd FTP user name

2nd FTP password

2nd FTP remote folder

☐ 2nd FTP passive mode

Save

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.

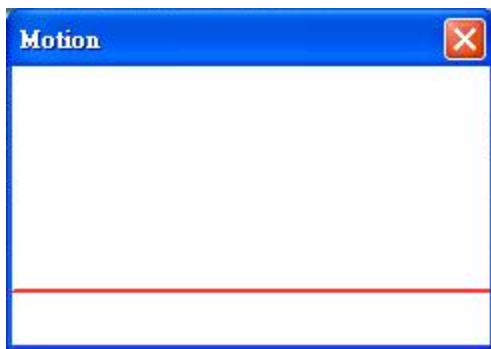
OpenEye®		Home	System	Streaming	Camera	Logout
System	Motion Detection					
Security	Motion Detection <input checked="" type="radio"/> Off <input type="radio"/> On					
Network	Motion Detection Setting Sampling pixel interval [1-10] 1 Detection level [1-100] 10 Sensitivity level [1-100] 70 Time interval(sec) [0-7200] 10					
DDNS	Triggered Action <input type="checkbox"/> Record stream to sd card <input type="checkbox"/> Send alarm message by FTP <input type="checkbox"/> Upload image by FTP					
Email	Motion Detection Windows <input type="button" value="add"/> <input type="button" value="delete"/> <input type="checkbox"/> Send alarm message by E-mail <input type="checkbox"/> Upload image by E-Mail					
FTP	File Name : image.jpg <input checked="" type="radio"/> Add date/time suffix <input type="radio"/> Add sequence number suffix (no maximum value) <input type="radio"/> Add sequence number suffix up to <input type="text" value="0"/> and then start over <input type="radio"/> Overwrite					
Motion detection	<input type="button" value="save"/>					
Storage management						
Recording						
File location						
View log file						
View user information						
View parameters						
Factory default						
Software version						
Software upgrade						
Maintenance						

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.

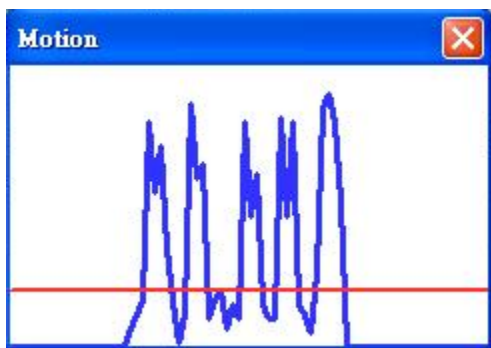
You can add up to 10 motion detection windows.

- 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.

The screenshot shows a configuration window for 'Upload Image by FTP'. It includes a checked checkbox for the title, a dropdown for 'FTP address' set to 'FTP1', dropdowns for 'Pre-trigger buffer' and 'Post-trigger buffer' both set to '5 frames', an unchecked checkbox for 'Continue image upload', radio buttons for 'Upload for 1 sec' (selected) and 'Upload during the trigger active', and a dropdown for 'Image frequency' set to 'Max.' with 'fps' as a unit label.

☒ Upload Image by FTP

FTP address FTP1

Pre-trigger buffer 5 frames

Post-trigger buffer 5 frames

☐ Continue image upload

☒ Upload for 1 sec

☐ 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.

The screenshot shows a configuration window for 'Upload Image by E-Mail'. It includes a checked checkbox for the title, a dropdown for 'E-Mail address' set to 'E-Mail 1', dropdowns for 'Pre-trigger buffer' and 'Post-trigger buffer' both set to '5 frames', an unchecked checkbox for 'Continue image upload', radio buttons for 'Upload for 1 sec' (selected) and 'Upload during the trigger active', and a dropdown for 'Image frequency' set to 'Max.' with 'fps' as a unit label.

☒ Upload Image by E-Mail

E-Mail address E-Mail 1

Pre-trigger buffer 5 frames

Post-trigger buffer 5 frames

☐ Continue image upload

☒ Upload for 1 sec

☐ 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: imageXXXXXXXX.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-610 and CM-710 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 4GB.

The screenshot shows the OpenEye web interface. The top navigation bar includes 'Home', 'System' (selected), 'Streaming', 'Camera', and 'Logout'. The left sidebar lists various system settings: System, Security, Network, DDNS, Mail, FTP, Motion detection, Storage management (selected), 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 'Storage Management' and contains four sections: 'Device information' showing 'SD card' type, '0 KB' free space, and '0 KB' total size; 'Device setting' with a 'Format device' button; 'Disk cleanup setting' with options to enable automatic cleanup and remove recordings older than 1 day(s) or when the disk is 85% full; and 'Recording list' with a table header for 'FileName' and 'Size' and 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. The top navigation bar includes 'Home', 'System' (selected), 'Streaming', 'Camera', and 'Logout'. On the left, a sidebar menu lists various system settings: System, Security, Network, DDNS, Mail, FTP, Motion detection, Storage management, Recording (highlighted), File location, View log file, View user information, View parameters, Factory default, Software version, Software upgrade, and Maintenance. The main content area is titled 'Recording' and contains a 'Recording Schedule' section. This section has three radio button options: 'Disable' (selected), 'Always', and 'Only during time frame'. Below the 'Only during time frame' option, there are checkboxes for each day of the week: Sun, Mon, Tue, Wed, Thu, Fri, and Sat. Further down, there are input fields for 'Start time' (set to 00:00) and 'Duration' (set to 00:00). A 'Save' button is located at the bottom of the configuration area.

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.

The screenshot displays the OpenEye web interface. At the top, there is a navigation bar with the 'OpenEye' logo and several tabs: 'Home', 'System' (which is currently selected), 'Streaming', 'Camera', and 'Logout'. On the left side, there is a vertical menu with various system configuration options: 'System', 'Security', 'Network', 'DHCP', 'Mail', 'FTP', 'Motion detection', 'Storage management', 'Recording', 'File location' (which is highlighted), 'View log file', 'View user information', 'View parameters', 'Factory default', 'Software version', 'Software upgrade', and 'Maintenance'. The main content area on the right is titled 'File Location' and contains the instruction 'Set the destination of snapshot photos and recorded video files'. Below this, there is a label 'All files stored at:' followed by a text input field containing 'C:\' and a 'Select' button. A 'Save' button is located below the input field.

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 displays the OpenEye web interface. The top navigation bar includes links for Home, System (selected), Streaming, Camera, and Logout. On the left, a sidebar menu lists various system settings: System, Security, Network, DDNS, Mail, FTP, Motion detection, Storage management, Recording, File location, View log file (highlighted), View user information, View parameters, Factory default, Software version, Software upgrade, and Maintenance. The main content area, titled 'System log', shows a list of system events with timestamps and descriptions. The log entries are as follows:

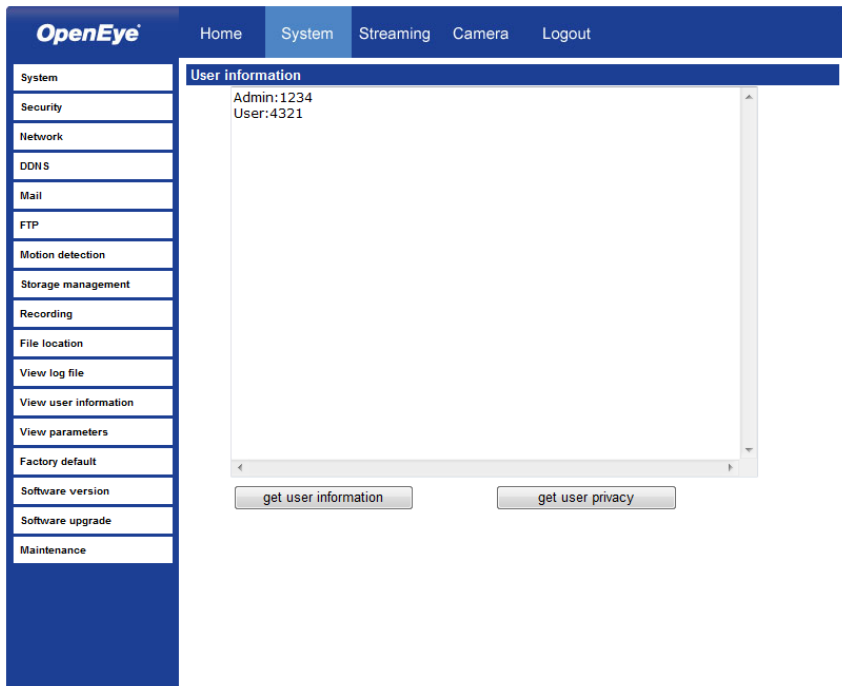
Timestamp	Event Description
[Mon Jan 1 00:00:00 2007]	--Network interface initialized start
[Mon Jan 1 00:00:01 2007]	--Network interface initialized end
[Mon Jan 1 00:00:01 2007]	--Host IP = 10.4.5.100
[Mon Jan 1 00:00:01 2007]	--Subnet Mask = 255.0.0.0
[Mon Jan 1 00:00:01 2007]	--Gateway = 10.0.0.50
[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.

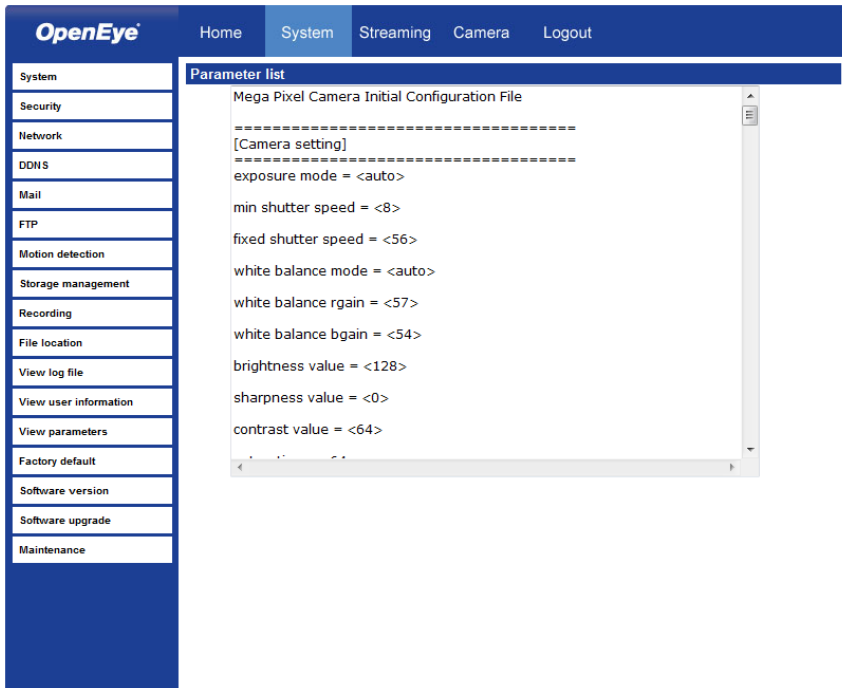


View User Privilege

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.

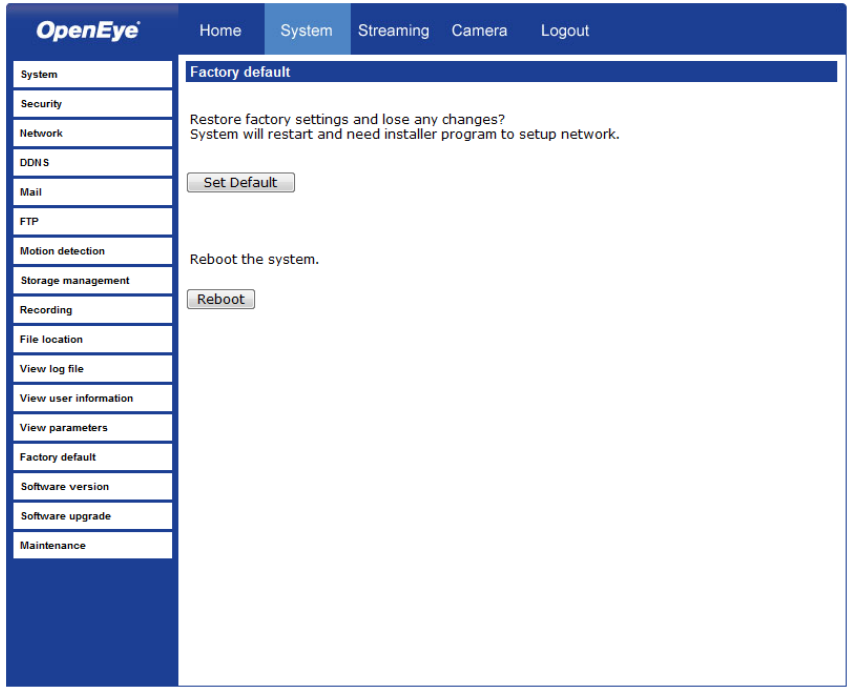


The screenshot shows the OpenEye web interface. The top navigation bar includes links for Home, System, Streaming, Camera, and Logout. The left sidebar contains a menu with the following items: System, Security, Network, DDNS, Mail, FTP, Motion detection, Storage management, Recording, File location, View log file, View user information, View parameters, Factory default, Software version, Software upgrade, and Maintenance. The 'View parameters' option is selected. The main content area is titled 'Parameter list' and displays the 'Mega Pixel Camera Initial Configuration File'. The configuration file content is as follows:

```
=====
[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.



Set Default

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

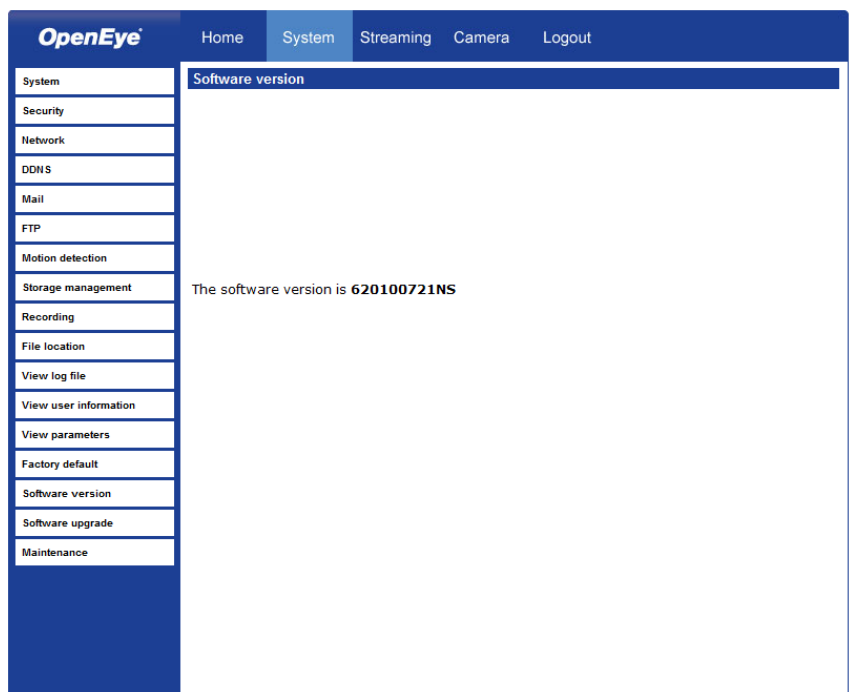
Note The camera's IP address will be restored to the default IP address.

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.



Software Upgrade

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

Upgrade

Follow These Steps To Do The Software Upgrade

Step1:
Upload the binary file

Step2:
Select binary file you want to upgrade
userland.jffs2

Step3:
Click the upgrade button to start the upgrade process

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 displays the OpenEye web interface. The top navigation bar includes links for Home, System (which is highlighted), Streaming, Camera, and Logout. On the left, a vertical sidebar lists various system settings: 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 (which is currently selected). The main content area is titled 'Maintenance' and contains two sections: 'Export Files' and 'Upload Files'. The 'Export Files' section has the text 'Export configuration files' followed by an 'Export' button. The 'Upload Files' section has the text 'Select configuration files' followed by a text 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.

The screenshot shows the OpenEye web interface with the 'Streaming' tab selected. The 'Video Format' sub-tab is active, displaying a list of video resolution options. The first option, 'H.264 720p (30fps) + MJPEG 720p (30fps)', is selected with a radio button. Below the list is a 'Save' button. A 'Note' section states that image attachment via FTP or E-mail is only available when MJPEG streaming is selected. The 'Text Overlay Settings' section includes checkboxes for 'Include date', 'Include time', and 'Include text string', with a text input field for the string and a 'Save' button. The 'Video Rotate Type' section has radio buttons for 'Normal video', 'Flip video', 'Mirror video', and '180 degree rotate' (which is selected), with a 'Save' button. The 'GOV Settings' section is partially visible at the bottom.

OpenEye Home System **Streaming** Camera Logout

Video Format

Video Format
Video Compression
Video OCX Protocol
Frame Rate Control
Video Mask

Video Format

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)

Save

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.

OpenEye Home System **Streaming** Camera Logout

Video Format
Video Compression
Video OCX Protocol
Frame Rate Control
Video Mask

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.

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.

OpenEye

HomeSystemStreamingCameraLogout

Video Format

Video Compression

Video OCX Protocol

Frame Rate Control

Video Mask

Frame Rate Control

☒ 30IPS(15IPS @ 2MP)

☐ 15IPS(7IPS @ 2MP)

☐ 10IPS(5IPS @ 2MP)

☐ 6IPS(3IPS @ 2MP)

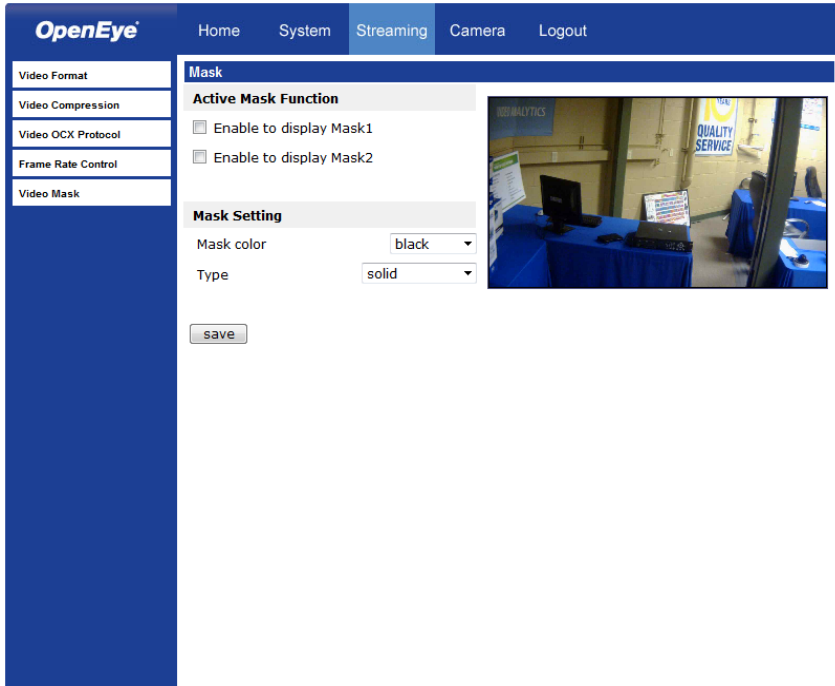
☐ 3IPS(2IPS @ 2MP)

☐ 2IPS(1IPS @ 2MP)

Save

Video Mask

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



The screenshot shows the OpenEye web interface for configuring video masks. The top navigation bar includes links for Home, System, Streaming (which is active), Camera, and Logout. On the left, a sidebar menu lists Video Format, Video Compression, Video OCX Protocol, Frame Rate Control, and Video Mask (which is selected). The main content area is titled 'Mask' and contains two sections: 'Active Mask Function' and 'Mask Setting'. The 'Active Mask Function' section has two checkboxes, 'Enable to display Mask1' and 'Enable to display Mask2', both of which are currently unchecked. The 'Mask Setting' section includes a 'Mask color' dropdown menu set to 'black' and a 'Type' dropdown menu set to 'solid'. A 'save' button is located at the bottom of the settings. To the right of the settings is a live video feed showing a room with blue tables, a computer monitor, and a sign that reads 'QUALITY SERVICE'.

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-610.

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: 3

Bit Rate: uLAW

Save

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.

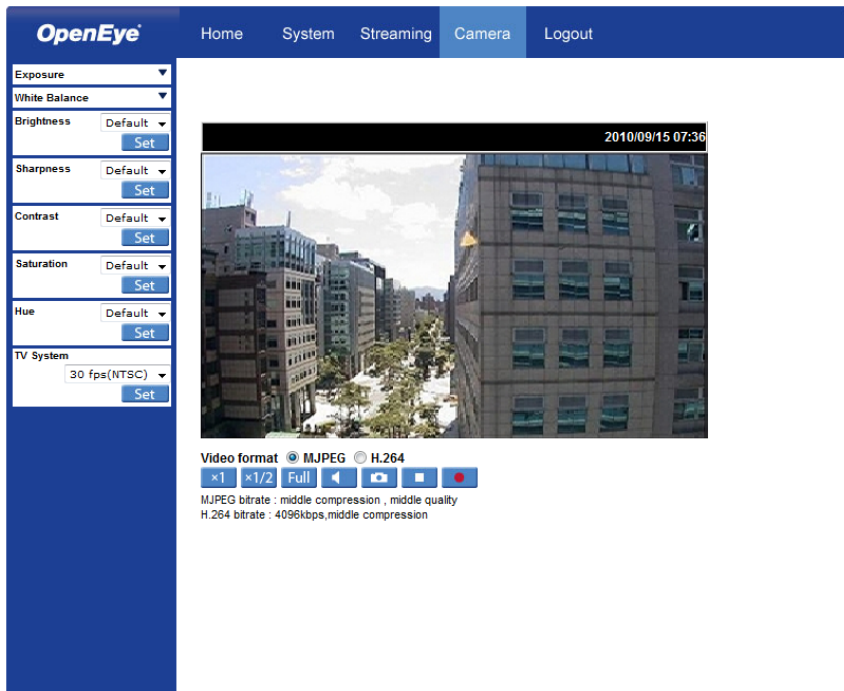
Bit Rate

Selectable audio transmission bit rate include:

16 kbps (G.726)	40 kbps (G.726)
24 kbps (G.726)	uLAW (G.711)
32 kbps (G.726)	ALAW (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

Model	CM-610 (Indoor)	CM-710 (Outdoor)
Image Sensor	1/2.7" OmniVision Progressive CMOS	
Imaging DSP	Ambrella	
IP Rating	N/A	IP66
Type / Format	H.264 / MJPEG	
Wide Dynamic Range	No	
Minimum Illumination	0.2 Lux @ F1.2	
Day / Night	Yes (Digital Day Night)	
Resolution	2MP (1080p)	
Service Monitor Jack	No	
S/N Ratio	>50dB	
Focal Length	4 mm Fixed	
Iris Control	F1.5 Fixed	
Synchronization	–	
Video Output	None	
White Balance	Manual / ATW / Outdoor / Indoor	
Auto White Balance Range	1500 K – 15000 K	
Backlight Compensation	No	
Auto Gain Control	Auto	
Operating Temperature	32°F~ 122°F (0°C ~ 50°C)	
Heater	No	
Power Consumption	3.8W	
Rated Amperage	0.08A	
Input Voltage	PoE Only	
Weight	0.4 lbs (0.18 kg)	
Dimensions	Ø4.3" (110 mm) x H: 11.9" (50 mm)	
Housing / Dome Cover	White / Clear	

IP SPECIFICATIONS

Video Compression	H.264 / MJPEG
Dual Streaming	H.264 + MJPEG or H.264+H.264
Audio In	Mic (CM-610 only)
Audio Out	None
Alarm In	None
Alarm Out	None
User Account	20

www.openeye.net

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