

OpenEye[®]

3MP Outdoor HD IP Dome Camera

User Manual



Camera

OE-C7163

OE-7163A

OE-7163R

OE-7163AR

www.openeye.net

Outdoor IP Camera (OE-C7163)

User Manual

Manual Edition 31186AE – APRIL 2015

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OPENEYE

Liberty Lake, WA • U.S.A.

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. (-31°F ~ 122°F / -35°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

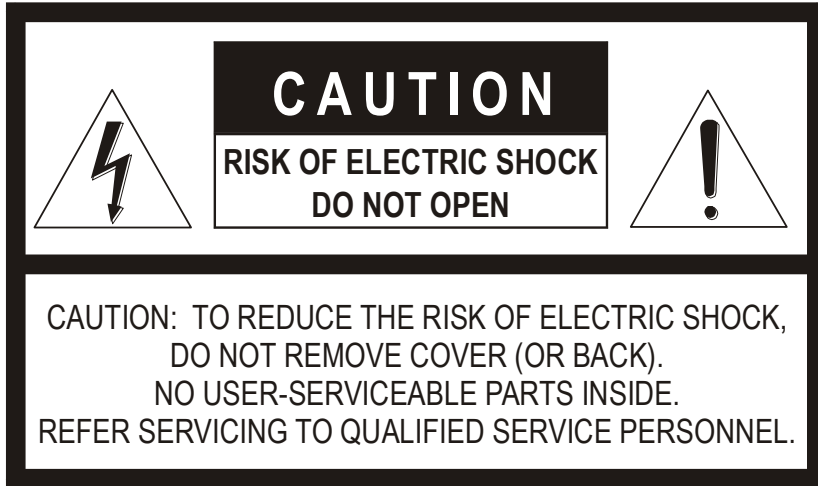


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INTRODUCTION

OVERVIEW

OpenEye's 700-Series high resolution outdoor IP dome cameras provide superior video quality and design. With features such as 3 megapixel resolution and a tamper resistant design, the OE-C7163 camera is a smart choice for outdoor surveillance applications.

The OE-C7163-A model offers the same features with the addition of an auto-focus lens making installation quick and easy.

The OE-C7163-R includes 24 infrared LEDs for enhanced nighttime viewing, and the OE-C7163-AR model has both IR LEDs and an auto-focus lens.

Designed for tough environments where standard security cameras are not suited to survive, the OE-C7163 is equipped with a heater allowing operation in temperatures as low as -31°F (-35°C). The OE-C7163 camera can be connected to both 24vAC and 12vDC power or to a PoE switch but 24vAC power is required to operate the on-board heater.

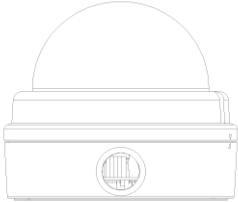

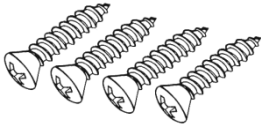
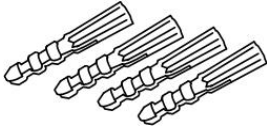


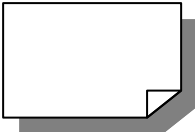

Product Features

- H.264/ MJPEG quad video streaming
- Resolution: 3MP, 2MP (1080p), HD 720p, D1, VGA, QVGA, CIF, QCIF
- Frame Rate: 3MP transmits at 12 IPS, 2MP transmits at 30 IPS, all other resolutions transmit 30 IPS (real time)
- Image Settings:
Rotation: Flip, Mirror, 90° and 180° Rotate
Brightness, Sharpness, Contrast, White Balance, Exposure Control
- Built-in IR Cut Filter
- D-WDR
- Weatherproof (IP66 international standard)
- Security Torx screws protect against tampering
- 3-axis position adjustment
- Built-in heater and fan

GETTING STARTED

BOX CONTENTS

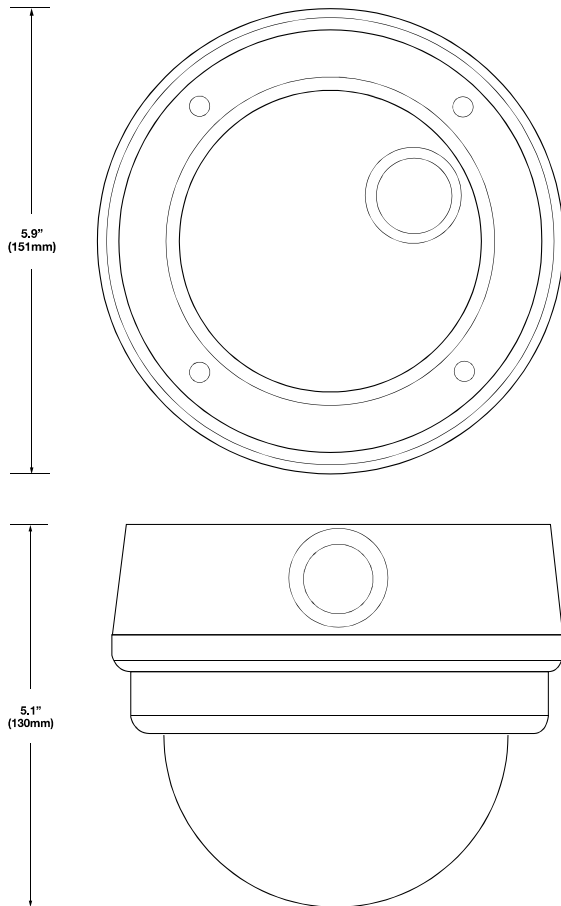
Before proceeding, please check that the box contains the items listed here. If any item is missing or has defects, DO NOT install or operate the product and contact your dealer for assistance.

		
OE-C7163 Camera	Power Cable	
		
Self Tapping Screws	Plastic Anchors	Security Torx Tool
		
Washers	Quick Start Guide	CD

CAMERA OVERVIEW

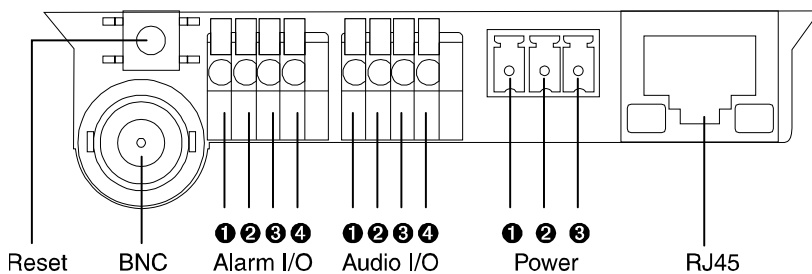
Before installing or connecting the dome camera, please refer to this section and complete preparations for dome setup and all switch settings.

Dimensions



- Diameter – 151 mm (5.9 inches)
- Height – 130 mm (5.12 inches)

Connections



Item	Pin	Definition
Reset	-	Restore Factory Default Settings
BNC	-	Analog Video Output
Alarm I/O	1	Alarm Input -
	2	Alarm Input +
	3	Alarm Output -
	4	Alarm Output +
Audio I/O	1	Output (L)
	2	Output (R)
	3	Ground
	4	Input
Power 12vDV / 24vAC	1	Power (+)
	2	GND
	3	Power (-)
RJ45	-	10/100 Ethernet PoE

INSTALLATION

POWER AND ETHERNET CONNECTION

Read the installation instructions before installing and connecting the IP camera.

Power Connection

You can use 12vDC power, 24vAC power or Power over Ethernet (PoE) to power the CM-716 camera. When powered by PoE, any 802.3af compliant device may be used to provide power. When using 12vDC or 24vAC power, refer to the pin definition table in the **Camera Overview > Connections** section for the proper 2-wire connection.

Note OpenEye recommends against using more than one power source at a time. Do not use a PoE power source when providing the camera with 12vDC or 24vAC power.

However, only 24vAC power will properly power the heater in the camera. If the camera is not subjected to temperatures lower than 40°F, a heater is not necessary and 24vAC, 12vDC or PoE (using an injector or compliant switch) will be suitable. Please verify that all installations that require a heater use 24vAC power.

Make sure the camera's power cable is correctly and firmly connected. If using Power over Ethernet (PoE), make sure Power Sourcing Equipment (PSE) is in use in the network.

Ethernet Cable Connection

OpenEye recommends using Category 5 Ethernet cable to connect the camera to your network. For the best transmission quality, the cable length should not exceed 328 feet (100 meters). Connect a network cable to the camera using the RJ45 input and connect the other end of the cable to your network switch or recorder.

Note If you are connecting the camera directly to a recorder, a crossover cable is necessary for most configurations.

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.

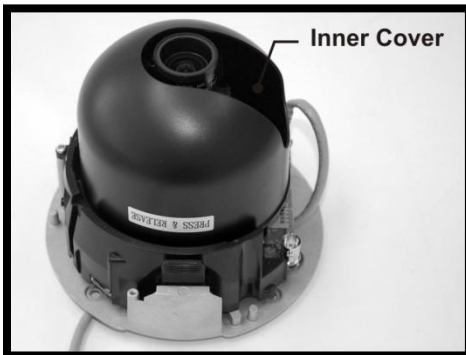
CEILING INSTALLATION

The IP Dome Camera can be installed directly on a wall or ceiling. The wall or ceiling must have enough strength to support the IP Dome Camera.

1. Use the supplied Torx tool to unscrew the two Torx screws on the side of the dome cover and remove the dome cover.



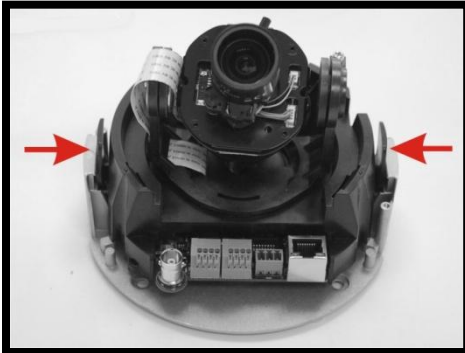
2. Press both sides of the Inner Cover and remove it from the Dome Camera.



3. Unscrew the Torx screw on the camera module, as indicated in the figure, with the supplied Torx tool.

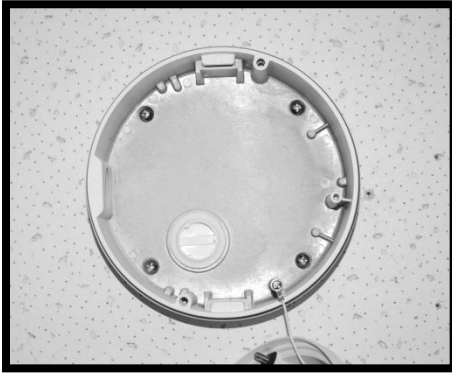


4. Press the sides of the snap-on module, as indicated in the figure, and detach it from the Dome Camera's housing.



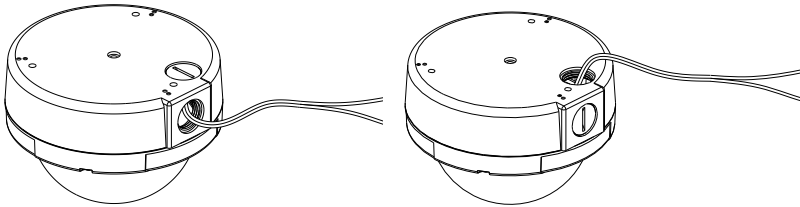
5. Mark the positions of the four screw holes on the base of the Dome Camera at the chosen installation location.
6. In the marked locations, drill each hole slightly smaller than the supplied screw anchors.
7. Insert the supplied anchors into the drilled holes.

8. Fasten the camera housing to the ceiling with the supplies screws



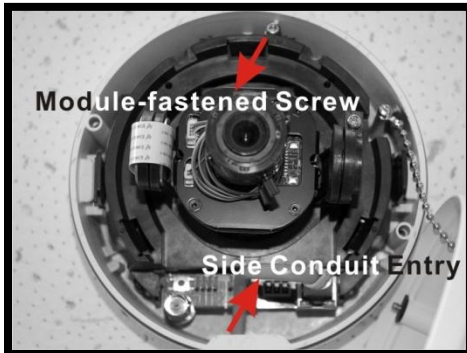
9. Thread the power and Ethernet cables through the side conduit entry or the back conduit entry.

Note The power cable is omitted if using PoE.



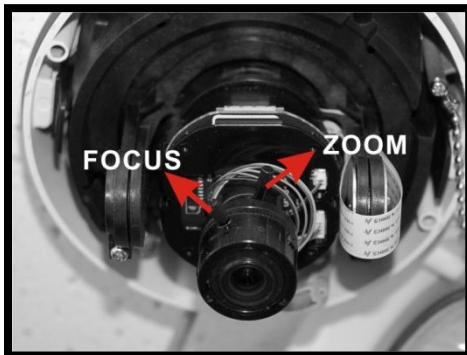
10. Connect the power and Ethernet connectors on the camera with their respective cables.

11. Attach the snap-on module to the camera housing, and screw the module screw tightly with the Security Torx to secure the camera module.

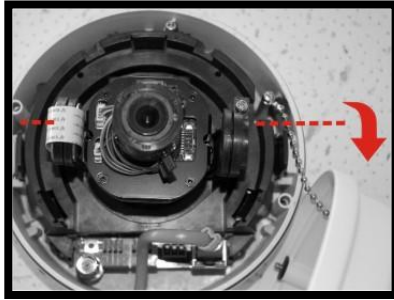


Note The terminal blocks should face the side conduit entry, as shown in the figure.

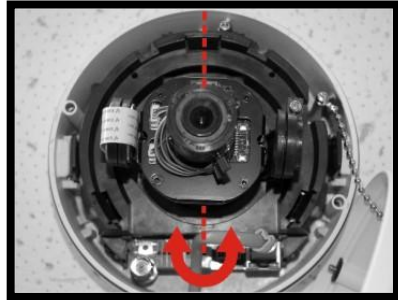
12. Use the OpenEye IP Finder software to locate the camera on the network and complete configuration of the camera.
13. After connecting to the camera, adjust the camera's zoom level and focal length using the zoom and focus ring screws.



14. Adjust the camera to the desired angle. Pan adjustment range is nearly 360°; rotation angle range approaches to 270°. Tilt is adjustable between - 10° ~ 90°.



Pan Adjustment



Tilt Adjustment

Note Adjust the lens carefully within the limits mentioned above, or the cables underneath will be damaged.

15. Replace the Inner Dome cover.



16. Replace the dome cover, aligning the arrow mark on the dome cover with the one on the housing.



17. Screw the two Torx screws on the side of the dome cover tightly to fasten the dome cover.



4S ELECTRICAL BOX INSTALLATION

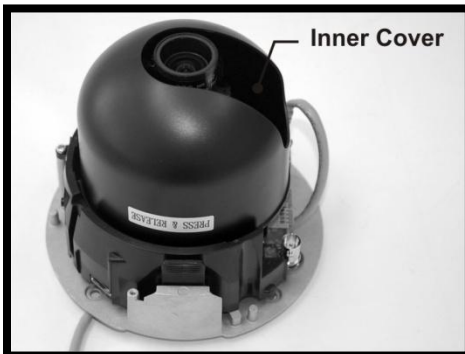
Before installing the camera in a 4S Electrical Box, unscrew and open the dome cover with the Security Torx.

1. Run the wires (Ethernet and power) through the wall to the 4S box.



Note The Power Cable is omitted if using PoE.

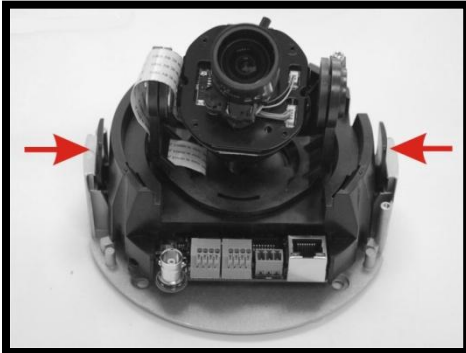
2. Press both sides of the Inner Cover and remove it from the Dome Camera.



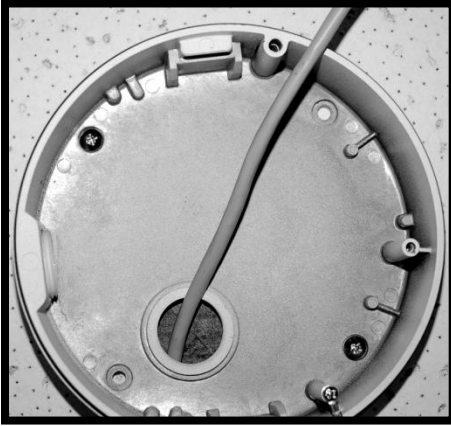
3. Unscrew the Torx screw on the camera module, as indicated in the figure, with the supplied Torx tool.



4. Press the sides of the snap-on module, as indicated in the figure, and detach it from the Dome Camera's housing.



5. Thread the power and Ethernet cables through either the side conduit entry or back conduit entry. Then fasten the Dome Camera's housing to the Electrical Box with the two screws.



6. Connect the power and Ethernet cables to their connectors on the Dome Camera unit.
7. Attach the snap-on module to the camera housing, and screw the module screw tightly with the Security Torx to secure the camera module.
8. Use the OpenEye IP Finder software to locate the camera on the network and complete configuration of the camera.
9. After connecting to the camera, adjust the camera's zoom level and focal length using the zoom and focus ring screws.
10. Replace the inner dome cover.
11. Replace the dome cover, aligning the arrow mark on the dome cover with the one on the housing.
12. Screw the two Torx screws on the side of the dome cover tightly to fasten the dome cover.

NETWORK CAMERA MANAGER SOFTWARE

OpenEye Network Camera Manager is a software tool that allows you to quickly and easily connect and configure your OpenEye IP Cameras. This software allows you to assign IP addresses, manage users, configure video settings, and update firmware on multiple cameras at once.

The Network Camera Manager software is pre-installed on all OpenEye Recorders, and included on the software CD with all OpenEye IP cameras. It is also available for download on the OpenEye website.

Installation

You can install Network Camera Manager on any personal computer (PC) or laptop using the software CD included with your OpenEye IP camera or by downloading the program from openeye.net.

Note Network Camera Manager will only work on PCs or laptops that use a Windows operating system. It is compatible with Windows XP, Vista, 7, and 8.

Starting Network Camera Manager

After installing the program on your PC or laptop, open the program to begin configuring your cameras.

To access Network Camera Manager on an OpenEye recorder, you must operate the recorder in Windows Mode.

1. In the Live Screen, click **Exit**.
2. Click **Restart in Windows Mode**.
3. Click **OK**.
4. Double-click **Network Camera Manager**.

CAMERA CONFIGURATION

Device Addressing

The functions on the Device Addressing tab allow you to find, configure, and view network cameras.

Finding Network Devices

1. Click **Find Devices** on the **Device Addressing** tab.
2. To narrow your search by **Camera Model**, **Project**, or **Camera Name**, select your desired criteria from the appropriate lists.

The screenshot shows the OpenEye Network Camera Manager v1.5.0.12 interface. The 'Device Addressing' tab is active, displaying a table of 73 discovered devices. The table columns are Model, Project, Name, IP Address, MAC, Netmask, Gateway, Port, and DNS. Below the table are sections for 'Auto IP Network Addressing' and 'Host Configuration'.

Model	Project	Name	IP Address	MAC	Netmask	Gateway	Port	DNS
CM-611	OpenEye	Training R...	10.88.88.153	00:D0:89:0...	255.0.0.0	10.0.0.51	80	10.0.0.19
CM-611	OpenEye	Training R...	10.88.88.151	00:D0:89:0...	255.0.0.0	10.0.0.51	80	10.0.0.19
CM-611	OpenEye	Security Ca...	10.47.47.58	00:D0:89:0...	255.0.0.0	10.0.0.51	80	10.0.0.19
CM-611	OpenEye	Training R...	10.88.88.159	00:D0:89:0...	255.0.0.0	10.0.0.51	80	10.0.0.19
CM-611	OpenEye	Training R...	10.88.88.150	00:D0:89:0...	255.0.0.0	10.0.0.51	80	10.0.0.19
CM-611	OpenEye	Training R...	10.88.88.162	00:D0:89:0...	255.0.0.0	10.0.0.51	80	10.0.0.19
CM-611	OpenEye	Training R...	10.88.88.158	00:D0:89:0...	255.0.0.0	10.0.0.51	80	10.0.0.19
CM-611	OpenEye	Support -6...	10.89.90.3	00:D0:89:0...	255.0.0.0	10.0.0.51	80	10.0.0.19
CM-611	OpenEye	Training R...	10.88.88.160	00:D0:89:0...	255.0.0.0	10.0.0.51	80	10.0.0.19
CM-611	OpenEye	CM-611	10.10.10.20	00:D0:89:0...	255.0.0.0	10.0.0.51	80	10.0.0.19

73 Devices discovered

Auto IP Network Addressing

Beginning IP:
Network Mask:
Gateway:
DNS:

Host Configuration

You can quickly change the configuration of the selected devices listed above.

☐ Static ☐ DHCP

Apply the network updates listed on this page to all selected cameras.

Undo network configuration changes.

Viewing a Network Camera

1. To view a network camera over the web using the camera's viewer software, double-click the name of the camera.
2. Click **Browse**.
3. Enter the **Username** and **Password** for the camera. The username and password are case sensitive. It is strongly recommended that the password be changed after the initial setup to prevent unauthorized access. The default username and password for OpenEye IP cameras are as follows.
Username – admin
Password – 1234
4. The viewer software is now opened in Internet Explorer.

Note The viewer software will install automatically the first time you connect to the camera. If your internet browser does not 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. If you are prompted to allow an add-on, click **Allow**.

5. You can now configure your camera using the Viewer Software. For more information on using Viewer software, please see the user manual for your 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. Click **Browse** in the pop-up window.
4. 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.

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.

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.

RTSP, however, 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, and 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.

1. Connect modems on both sides directly to the recorder and camera. If there is no router, no network address translation is needed.
2. 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.
3. **(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 recorder. 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

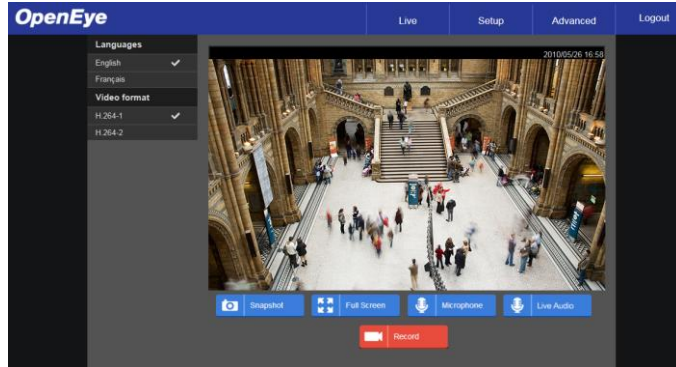
Live – Monitor video and perform other video related functions.

Setup – Set the camera name, IP address, and define users. This tab also allows you to configure the camera settings and view streams.

Advanced – Perform advanced setup configurations, like network setup, security, alarms and maintenance.

Logout – Change user.

LIVE



Full Screen – This will display the live feed in full screen.

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.

Record – Click **Record** to start recording live video. Click **Record** again to stop recording video. Recorded video will be saved automatically to the designated location on the local workstation. The default location is C:\. This location can be changed in **File Location**, in the **System** menu.

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

Microphone – PC Network Camera Manager Software audio to camera, enables audio through an audio out on the camera.

Live Audio – Camera to PC Network Camera Manager Software, enables audio if a microphone is equipped to the camera.

Note The Microphone and Live Audio functions are only available on enable cameras. If the camera is not enabled for these features, an error message will display.

SETUP

The Setup menu includes System Settings, Picture Setup, and Streaming Settings.

Note The Setup menu displays limited setup options. For a complete list of setup options, see the *Advanced* section.

SYSTEM SETTING

Camera Name

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.

Time Format – Select your desired time format.

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

Sync with NTP Server – Manual allows you to define the date and time manually. 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.

The screenshot shows the 'Video Compression' settings page. It includes sections for MJPEG, H.264-1, H.264-2, H.264-3, and H.264-4, each with a 'Compression setting' and a 'bit rate' dropdown menu. There is also a 'Compression information setting' section with a checkbox for 'Display compression information in the home page'. At the bottom, there is a 'CBR mode setting' section with checkboxes for enabling CBR mode for each H.264 profile.

IP Address

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

The screenshot shows the 'IP Address' settings page. It has a 'General' section with radio buttons for 'Get IP address automatically' (selected) and 'Use fixed IP address'. Below are input fields for IP address, Subnet mask, Default gateway, Primary DNS, and Secondary DNS. There is also a section for 'Use PPPoE' with fields for User name and Password. An 'Advanced' section contains input fields for Web Server port, RTSP port, MJPEG over HTTP port, and HTTP port. At the bottom, there is an 'IPv6 Address Configuration' section with a checkbox for 'Enable IPv6' and an 'Address' field.

Get IP an 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 Network Camera Manager also displays the MAC address for identification). Record your camera's MAC address for identification in the future.

Use Static IP Address

To set up a new static IP address:

1. Select the Use static 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 **Apply** to confirm the new setting.

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 Explorer.

- **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 on different subnets or for internet access.
- **Primary DNS** – The primary domain name server that translates hostnames into IP addresses.
- **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).
- **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.
- **HTTPS port** – The default HTTPS Port is 443; setting range: 1024 ~65535.

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

IPv6 Address Configuration

To enable IPv6 select **Enable IPv6** and click **Save**. See your network administrator if you are unsure of your network configuration.

User Setup

Admin Password

Manage the password for the Administrator account.

To change the administrator password:

1. Type a new **Administrator Password**, and then type again to confirm the password.
2. Click **Save**.

Add User

The user name and passwords are limited to 16 characters with no spaces permitted. There is a maximum of twenty user accounts.

1. Type the new **Username** and **Password**.
2. Select I/O Access, Camera Control, Talk, and/or Listen as permissions for the User.

I/O Access – All functions in the Setup and Advanced menus are available to the User.

Camera Control– Allows the User to change camera controls in the Setup menu.

Talk – Allow the user to speak through the camera microphone.

Listen – Allow the user to listen to audio captured by the camera.

3. Click **Add**.

Delete User

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

There is a momentary wait time while the Network Camera Manager saves parameters. When this period is complete, the User will be deleted.

Modify User

1. Select the user name on the **User Name list**.
2. Click **Edit**.
3. In the resulting window, modify the Password and/or feature permissions.
4. Click **Save**.

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

File Location

This is the destination location that snapshot photos and recorded videos will be saved to.

To select a destination location:

1. Click **Select**.
2. Choose a location or folder.
3. Click **Save** in the file window, and then click **Save** again.

PICTURE SETUP

Camera Tab

Use the Camera Tab section to modify picture settings for the camera. The sample image will change as you modify the picture settings.

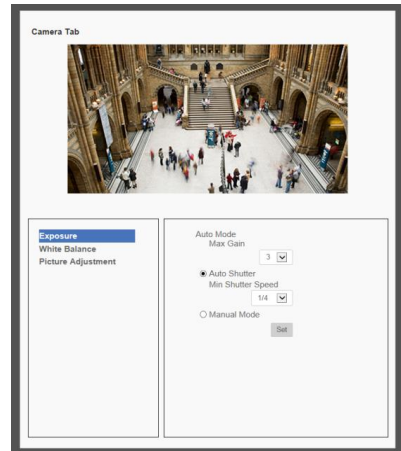
Note These settings can drastically affect the camera image. OpenEye suggests that these settings are only modified by a CCTV professional, or at the instruction or a technical support representative.

Exposure

Min Shutter Speed – Choose a pre-determined shutter speed.

Manual Mode – Changing the shutter mode to manual will allow you to select the minimum shutter speed that the camera will use. This can drastically change the amount of light entering the camera.

Click **Set** to save your changes.



White Balance

Use the white balance setting to change color representation in difficult lighting conditions.

Auto – White balance works within its color temperature range and calculates the best-fit white balance.

ATW – Auto-tracing white balance, the camera removes the signals within a range of 2000K to 10000K, which helps to even out the bright white portions of an image.

One Push – Balances color temperature based on a white object within the viewing area.

Manual – Change the white balance value by specifying the R gain and B gain.

Click **Set** to save your changes.

Picture Adjustment

Each of the Picture Adjustment settings is set to the recommended default.

Brightness – Adjust the image's brightness on the camera. The Backlight value is adjustable from **0** (dim) ~ **+20** (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 **0** ~ **+10** (sharpest).

Contrast– Adjust the contrast value from **-6** to **19**.

Saturation– Adjust the color saturation form **-6** to **19** (most saturation).

Hue– Adjust the hue from **-12** to **13**.

Backlight– Backlight compensation can correct for overly-bright backlit scenarios.

D-WDR Function– Turn the Digital Wide Dynamic Range Off, or adjust between **1** and **3**.

Click **Set** after making changes to the Picture Adjustment settings to save the settings and update the Live screen.

Motion Detection

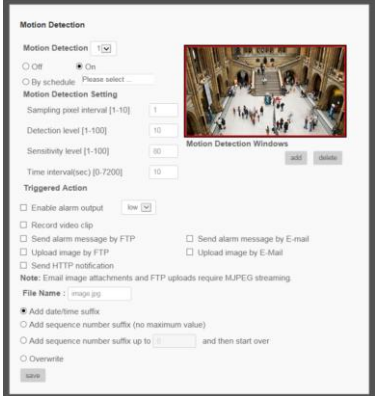
Use the Motion Detection menu to configure the motion detection window(s). Here, Motion Detection can be turned On or Off, and other general settings can be specified.

To enable motion detection:

1. Use the **Motion Detection** dropdown to select a motion detection preset (1-4). If choosing an additional preset after 1, check the **On** checkbox.

Note A motion detection preset can be turned **Off** at a later time.

2. If desired, check the **By Schedule** check box and use the dropdown menu to select a schedule.
3. Designate the **Motion Detection Setting** values.
4. Check the appropriate boxes to designate the **Trigger Action**.
5. Click **Save**.



Add Detection Window

1. Use the **Motion Detection** dropdown to select a motion detection preset.
2. Click **Add**.

Note The selected motion detection square will be red.

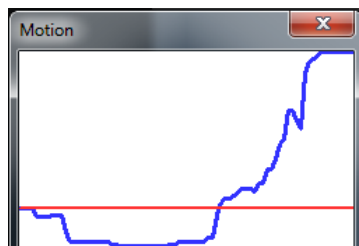
3. Arrange and size the motion detection window as desired.
4. Click **Save**.

Delete Motion Detection Window

1. Click to select the desired motion detection window.
2. Click **Delete**.

Motion Window

The motion window displays a red line and a dynamic blue line. The red line represents the Detection Level. The blue line will also be present if motion is present in the camera frame. The blue line will react accordingly based on the motion in the camera frame.



STREAMING SETTINGS

Video Resolution

The camera provides eight codec options under video resolution (two single streaming options, two sets of dual streaming options, two sets of tri-streaming options, and two sets of quad-streaming options):

- H.264 Only
- MJPEG Only
- H.264 + H.264
- H.264 + MJPEG
- H.264 + H.264 + H.264
- H.264 + H.264 + MJPEG
- H.264 + H.264 + H.264 + H.264
- H.264 + H.264 + H.264 + MJPEG

The screenshot shows a 'Video Format' configuration window. It includes sections for 'Video Resolution' with dropdowns for H.264 + H.264, H.264-1 format (1080 x 1080 (15 fps)), H.264-2 format (640 x 480 (30 fps)), and BNC support (N/A). There is a 'Save' button. The 'Video Orientation' section has a 'Normal video' dropdown and a 'Save' button. The 'GOP Settings' section has input fields for H.264-1 GOP Length (10), H.264-2 GOP Length (10), H.264-3 GOP Length (10), and H.264-4 GOP Length (10), with a 'Save' button. The 'H.264 Profile' section has dropdowns for H.264-1 (Main profile), H.264-2 (Main profile), H.264-3 (Main profile), and H.264-4 (Main profile), with a 'Save' button.

Once a codec option is selected, multiple resolutions are available for each stream.

Note Due to resource management, some resolutions may be unavailable when selecting a dual stream option.

Video Orientation

Normal Video – The video will be oriented as the camera position dictates.

180 Degree Rotate – Rotate the video 180 degrees.

90 Degree Clockwise – Rotate the video 90 degrees clockwise.

90 Degree Counter Clockwise– Rotate the video 90 degrees counter clockwise.

Mirror Video – Flip the video across the vertical axis.

Mirror + 180 Degree Rotate – Flip the video across the vertical axis and rotate 180 degrees.

GOP Size

The Group of Pictures settings allow you to modify the frame structure of the video stream. This setting changes the frequency of the I-frames that occur within the stream of P-frames (2~64). Increasing this number increases the number of P-frames between each I-frame; decreasing the file size of the stream, but increasing the risk of video decoding errors. Decreasing this number decreases the number of P-Frames between each I-frame; increasing the file size of the stream, but decreasing the risk of video decoding errors. OpenEye recommends setting the GOP to be approximately twice the frame rate (e.g.: if the frame rate is 10 IPS, then set the GOP to 20).

H.264 Profile

The H.264 Profile may need to be changed if you are using a third party recorder that is not capable of decoding H.264 Main Profile video compression. Select compatible compression type for each stream if necessary.

Video Frame Rate

Setting the camera to transmit fewer frames can save bandwidth. Use the Frame Rate Control screen to adjust the frame rate of each stream.

Each of the MJPEG and H.264 streams can have a separate frame rate setting from 1 to 30 frames per second.

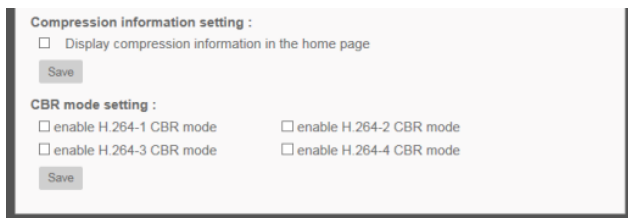
Note Higher frame rate will increase video smoothness, as well as file size and bandwidth usage.

Note Lower frame rate will decrease video smoothness, as well as file size and bandwidth usage.

The screenshot shows a web interface titled "Video Frame Rate". It contains four distinct settings sections, each with a title, a label, a value input field, and a "Save" button. The settings are as follows:

Stream Type	Stream Label	Current Frame Rate
MJPEG	MJPEG frame rate	30
H.264	H264-1 frame rate	15
H.264	H264-2 frame rate	15
H.264	H264-3 frame rate	30

Video Compression



The screenshot shows a web-based configuration interface for video compression. It is divided into two main sections. The first section, titled 'Compression information setting:', contains a single checkbox labeled 'Display compression information in the home page' and a 'Save' button below it. The second section, titled 'CBR mode setting:', contains four checkboxes arranged in two columns: 'enable H.264-1 CBR mode', 'enable H.264-2 CBR mode', 'enable H.264-3 CBR mode', and 'enable H.264-4 CBR mode'. A 'Save' button is located at the bottom left of this section.

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 inflation on the Live Screen.

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

CBR Mode Setting

- The Constant Bit Rate mode allows you to lock in the bit rate of the H.264 stream. If this setting is not enabled, bit rate may fluctuate based on available bandwidth.

ADVANCED

SYSTEM SETTING

Network Setup

The Network Setup settings will automatically be set at the recommended default after the camera connection is made.

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.

- **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.

Network Advanced

QoS

Quality of Service allows you to prioritize network traffic services of the camera's functions. The QoS function utilizes the Differentiated Services prioritized using Codepoint values (DSCP).

Note Routers and switches on the network must be QoS or DSCP capable, and have these settings enable for this function to operate on your network.

SNMP Settings

With Simple Network Management Protocol (SNMP) enabled, the camera can be monitored and managed remotely with a network management system. Contact your network administrator if you are not familiar with SNMP setup.

UPnP (Universal Plug N' Play)

Enable UPnP – When enabled, the camera will appear in My Network Places on Windows computers running UPnP on the same network.

Enable UPnP Port Forwarding – When enabled, the camera will attempt to open the web server port on the router automatically.

Friendly Name – Set a name to easily identify the camera.

Network Security

HTTP

The camera can send alarm messages to a specific Hypertext Transfer Protocol (HTTP) site when motion is detected or when the sensor input is activated. You can assign alarm messages to up to two HTTP sites.

IP Filtering

IP Filtering allows you limit access to your IP cameras by IP address. You can “Allow” or “Deny” a specific IP address by adding it to the appropriate list. IP addresses on the “Allowed IP List” will be able to access the IP camera. IP addresses on the “Deny IP List” will NOT be able to access the IP camera.

IEEE 802.1XSEAP-TLS

This is a well supported security protocol commonly used by wireless vendors. This security method requires a valid CA certification and key. When properly configured, all communication between the client (usually a recorder) and the camera is encrypted.

Alarm Application

The alarms menu is where alarm connections are configured.

Alarm Switch – Designate when the alarm will be active; Off, On, or By Schedule.

Alarm Type – Designate if the alarm is normally open or normally closed.

- **NOH** – NO stands for Normally Open.
- **NC/L** – NC stands for Normally Closed.

The screenshot shows the 'Alarm Application' configuration window. It includes sections for 'Alarm Switch' (radio buttons for Off, On, and By schedule), 'Alarm Type' (radio buttons for Normal close and Normal open), 'Alarm Output' (radio buttons for Output high and Output low), and 'Triggered Action' (checkboxes for Enable alarm output, IR cut filter, Send message by FTP, Send message by E-Mail, Upload image by FTP, Upload image by E-Mail, Send HTTP notification, and Record video clip). There is a 'File Name' section with a text input field and radio buttons for adding date/time suffix, sequence number suffix, or overwriting. A 'Save' button is at the bottom.

Example: A door sticker consists of two contacts that are connected when under normal conditions. This type of input would be a NC/L or normally closed alarm. The alarm will trigger when the two contacts are no longer connected, such as an abnormal condition when the door is opened.

Alarm Output – Choose high or low.

Trigger Action – 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 FRP, the alarm notification will upload a text file to the FRP location.
- **Upload Images 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 FRP site.
- **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 appropriate e-mail address.

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. Select the one that meets your requirements.

Consult the documentation to the sensor input device to determine which of these to use.

Tampering and Network Failure Detection

Tampering Alarm – Turn the Tampering Alarm On, Off, or On By Schedule.

Tampering Duration – Designate the amount of time (in seconds) that tampering must occur in order for a Tampering Alarm to activate.

Triggered Action – Designate the actions that will occur upon a Tampering Alarm activating.

Network Failure Detection – Turn the Network Failure Detection On, Off, or On By Schedule.

Detection Type – Designate the IP Address that will be tested and how often (in minutes).

Triggered Action – Designate the actions that will occur upon Network Failure Detection activation.

The screenshot shows a web-based configuration interface titled "Tampering and Network Failure Detection". It is divided into two main sections: "Tampering Alarm" and "Network failure detection".

Tampering Alarm Section:

- Tampering Alarm:** Radio buttons for "Off" (selected), "On", and "By schedule: Please select...".
- Tampering Duration:** A text input field labeled "Minimum duration" with the value "20" and the unit "sec".
- Triggered Action:** A list of checkboxes: "Enable alarm output" (checked, with a dropdown menu showing "low"), "Record video clip", "Send message by FTP", "Send message by E-Mail", "Upload image by FTP", and "Upload image by E-Mail".
- Note:** "Email image attachments and FTP uploads require MJPEG streaming."
- File Name:** A text input field labeled "File name:" with the value "image.jpg".
- Options:** Radio buttons for "Add date/time suffix" (selected), "Add sequence number suffix (no maximum value)", "Add sequence number suffix up to [input field] and then start over", and "Overwrite".
- Save:** A button at the bottom of the section.

Network failure detection Section:

- Detection Switch:** Radio buttons for "Off" (selected), "On", and "By schedule: Please select...".
- Detection Type:** A text input field labeled "Ping the IP address" with the value "0.0.0.0" and a dropdown menu showing "every 1 minutes".
- Triggered Action:** A list of checkboxes: "Enable alarm output" (checked, with a dropdown menu showing "low"), "Record video clip", "Send message by FTP", and "Send message by E-Mail".
- Save:** A button at the bottom of the section.

Mail, HTTP and FTP Setup

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

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.

SD Card

All OpenEye IP cameras include an integrated microSD™ card slot that can be used to record video or images. The card slot is compatible with a microSD™ card up to 16GB.

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

Current Recording Partition – Amount of space designated for recording on the microSD card.

Format – Allows you to format the microSD card.

Eject – Safely eject the microSD card.

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, 7, or 8, you will need to change the Snapshot location. Windows UAC does not allow internet programs to write directly to C:\ for security reasons.

Network Share

Network Share is a network protocol that runs a variety of different system platforms, allowing for file sharing between computers operating on Windows and computers operating on Unix. This serves as an additional storage type.

Configuration requires the host IP address, share name, and credentials. Once configured, cameras can record events to the network share.

Note Network Share can be hosted on a Windows, Mac, or Linux system.

The screenshot shows a web-based configuration interface for a Network Share. It is divided into several sections: 'Device Information' showing 'Network Share' as the device type with 0GB free space and offline status; 'Storage Settings' with fields for Protocol (SMB), Host, Share, User name, and Password, plus a 'Save' button; 'Storage Tools' with a 'Format' button; 'Disk cleanup setting' with checkboxes for automatic cleanup and a 'Save' button; and 'Recording list' with date range filters and a 'Search' button. Below the search filters is a table with columns for 'FileName' and 'Size', and at the bottom are 'Remove', 'Sort', and 'download' buttons.

Network Share			
Device Information			
Device type:	Network Share	Total size:	0GB
Free space:	0GB	Full:	No
Status:	offline		
Storage Settings			
Protocol:	SMB		
Host:			
Share:			
User name:			
Password:			
<input type="button" value="Save"/>			
Storage Tools			
Format device:	<input type="button" value="Format"/>		
Disk cleanup setting			
<input type="checkbox"/> Enable automatic disk cleanup			
Remove recordings older than:	1	day(s)	
Remove oldest recordings when disk is:	95	% full	
<input type="button" value="Save"/>			
Recording list			
From:	2010-05-31	to:	2010-05-31
	Date (yyyy-mm-dd)		Date (yyyy-mm-dd)
<input type="button" value="Search"/>			
FileName	Size		
<input type="button" value="Remove"/> <input type="button" value="Sort"/> <input type="button" value="download"/>			

Recording Schedule

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

Recording

This section allows you to define recording schedules for the camera.

For continuous recording:

1. Select type of **Recording Storage**.
 - **microSD card™**: save recorded data to the microSD™ card located in the camera.
 - **Network Share**: save recorded data to the designated Network Share location.
2. Select **Always** as the type of **Recording Schedule**.
3. Click **Save**.

The screenshot shows the 'Recording Schedule' configuration window. Under 'Recording Storage', 'SD Card' is selected with a radio button. Under 'Recording Schedule', 'Always' is selected with a radio button. Below these, there is a section for 'Only during time frame' which includes a table for selecting days of the week and a section for 'Start time' and 'Duration'. The table has columns for 'Weekday' (1-10) and 'Start time' and 'Duration'. The 'Start time' is set to '00:00' and the 'Duration' is set to '24:00'. At the bottom, there are 'Save' and 'Delete' buttons.

To set up scheduled recording:

1. Select type of **Recording Storage**.
2. Select **Only during time frame** as the type of **Recording Schedule**.
3. Use the appropriate check box to designate a day of the week.
4. Type a **Start Time** and **Duration**.
5. Click **Save**.
6. Repeat steps 3-5 for each desired day of the week until the desired schedule is completed.

Note Start Time and Duration are measured in 24-hour format (HH:MM).

To delete a recording schedule:

1. Select Disable for the type of Recording Schedule.

—OR—

Click on the desired weekday schedule and then click **Delete**.

Schedule

This section allows you to establish schedules to use in other section.

The screenshot shows a 'Schedule' configuration window. It features a table with 10 rows, numbered 1 to 10. The first row is highlighted in blue. The table has three columns: 'Weekday', 'Start time', and 'Duration'. The 'Weekday' column contains a series of dashes, indicating that no specific days are selected. The 'Start time' and 'Duration' columns are empty. Below the table, there are radio buttons for 'Day' and 'Night', and a 'Time' radio button which is selected. To the right of the 'Time' radio button are input fields for 'Start time' (set to '00:00') and 'Duration' (set to '24:00'). At the bottom, there are 'Save' and 'Delete' buttons.

	Weekday	Start time	Duration
1	- - - - -		
2	- - - - -		
3	- - - - -		
4	- - - - -		
5	- - - - -		
6	- - - - -		
7	- - - - -		
8	- - - - -		
9	- - - - -		
10	- - - - -		

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

☐ Day

☐ Night

☒ Time Start time : 00:00 Duration : 24:00

Save Delete

To create a schedule:

1. Select a Schedule set **(1-10)**.
2. Check the desired **week day** check boxes.
3. Select **Day** or **Night**.
4. Designate a **Start Time** and **Duration**.
5. Click **Save**.

Interval Recording

Interval recording allows you to record in consistent intervals and save the files for later viewing.

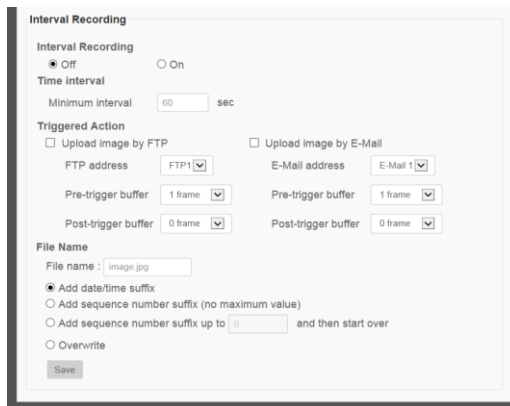
1. Turn Interval Recording **On** or **Off**.
2. Designate the Time Interval (seconds).
3. Designate the Trigger Action using the appropriate checkbox, and then use the dropdown menus to further manage the Trigger Action.
4. Type a file name, and then choose how the file name is multiplied for multiple files.

Add date/time suffix – add the date/time to the end of the file name for each interval file saved.

Add sequence number suffix – add a sequence number suffix to the end of the file name for each interval file saved.

Add sequence number suffix up to x and start over – add a sequence number suffix to the end of the file name for each file saved up to x, and then start over.

Overwrite – overwrite each previous interval file with the new interval file.



The screenshot shows a configuration window titled "Interval Recording". It contains several sections: "Interval Recording" with radio buttons for "Off" (selected) and "On"; "Time Interval" with a "Minimum interval" input set to "60" and a "sec" unit; "Triggered Action" with checkboxes for "Upload image by FTP" and "Upload image by E-Mail", each followed by an address input field; "Pre-trigger buffer" and "Post-trigger buffer" settings, each with a dropdown menu showing "1 frame" and "0 frame" respectively; "File Name" section with a "File name" input field containing "image.jpg" and four radio button options: "Add date/time suffix" (selected), "Add sequence number suffix (no maximum value)", "Add sequence number suffix up to [input] and then start over", and "Overwrite". A "Save" button is at the bottom.

Maintenance

On the Maintenance page you can export the cameras current configuration, or import the configuration for a camera. Use the factory default page to reset the IP Camera to factory default settings if necessary.

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

Configuration

Export Configuration:

1. Check the appropriate boxes for information that you want exported.
2. Click **Export Configurations**.
3. The .bin file will be saved.

Note The default location for exported configurations is C:\

Upload (Import) Configuration:

1. Click **Browse** in the Configuration Import box.
2. Select a .bin file that you want to import.
3. Click **Import**.
4. Click **Yes** when prompted that the import will cause a system reboot.

Factory Default

There are two factory default settings available: Full Restore that restores default settings including network settings, and a Partial Restore that restores default settings excluding network settings. A system reboot is also available; this preserves all settings.

Note If a Full Factory Default is used, you will need to use the Network Camera Manger to find the desired camera(s) again.

Software

Note Make sure the software upgrade file is available before starting the software upgrade.

1. Click **Browse** and find the upgrade file.

Note Do not change the file name, or the system will fail to find the file.

2. Select the file name from the list under **Step 2**.
3. Click **Upgrade**. The system will check to find the upgrade file, and then start to upload the upgrade file. The upgrade status bar will display on the page. When it reaches 100%, the viewer will return to Home page.
4. Close the internet 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 log in to the camera. The system will automatically download the new version of the Camera Viewer software.

PICTURE SETTING

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 enable up to five privacy masks and choose a color to obscure the live view from users.

Hot Spot

The Spot feature allows you to transmit different parts of the camera image on separate streams. Each stream is displaying a portion of the image at the full size of a regular image. This is useful for focusing on details in different areas of a single camera view.

Text Overlay

Text Overlay allows you to select text to be displayed over the video. Three options are available: Date, Time, and a Custom String (up to 20 alphanumeric characters).

STREAMING SETTING

Audio

Audio Input Grain – sets the amplification that the camera applies to the incoming audio before transmitting.

Audio Output Delay – Sets a delay in the audio transmission. This is used when there is significant lag in video transmission to help sync the audio and video.

Volume – Sets the audio output volume level (for listening to live audio).

Network Transfer – Sets the camera to continue transmitting audio even if the video stops.

LOGOUT

The Logout tab allows you to switch between users.

1. Click **Logout**.
2. If prompted to close the browser window, click **Yes**.
3. Using the Network Camera Manager Software, select the camera you wish to view in the Viewer Software.
4. Click **Browse**.
5. Login as the appropriate user.

SPECIFICATIONS

CAMERA SPECIFICATIONS

Model	OE-C7163		OE-C7163-A	OE-C7163-R	OE-C7163-AR
Image Sensor	1/2.8" CMOS				
IP Rating	IP66				
Type / Format	H.264 / MJPEG				
Wide Dynamic Range	Digital Wide Dynamic Range				
Minimum Illumination	0.5 LUX (Color) / 0.1 LUX (B&W)		0.5 LUX (Color) / 0.1 LUX (B&W) / 0 LUX (IR LED)		
Day / Night	Yes (True Day / Night)				
Resolution	3MP [2048 x 1536], 1080p [1920 x 1080 (2MP)], 1280 x 1024 (1.3MP), 720p [1280 x 720 (1MP)], D1 [720 x 480], CIF [352 x 240]				
Service Monitor Jack	Yes (BNC)				
S/N Ratio	>50dB				
Focal Length	3 – 9 mm	3 – 9 mm autofocus lens	3 – 9 mm	3 - 9mm autofocus	
Iris Control	F 1.2 fixed				
Synchronization	–				
Video Output	1.0 Vp-p / 75Ω, BNC				
White Balance	Manual / AWB / ATW				
Auto White Balance Range	2700 K – 8000 K				
Backlight Compensation	Yes				
Auto Gain Control	Auto				
Operating Temperature	-31°F ~ 122°F (-35°C ~ 50°C) @ 24vAC -22°F ~ 122°F (-30°C ~ 50°C) @ 12vDC 14°F ~ 122°F (-10°C ~ 50°C) @ PoE				
Heater	Yes (with fan)				
Power Consumption	11.75W Max	13.2W Max	14.6W Max	15.2W Max	
Rated Amperage	0.12A	0.15A	0.18A	0.2A	
Input Voltage	24vAC (12vDC / PoE)				
Weight	1.7 lbs (.77 kg)				
Dimensions	Ø5.9" (151 mm) x H: 5.12" (130 mm)				
Housing / Dome Cover	White / Clear				

IR SPECIFICATIONS

Model	OE-C7163	OE-C7163-A	OE-C7163-R	OE-C7163-AR
IR LEDs	–		24 IR LEDs (850nm)	
IR Range	–		Up to 50 ft (15 m)	

IP SPECIFICATIONS

Model	OE-C7163	OE-C7163-A	OE-C7163-R	OE-C7163-AR
Video Compression	H.264 / MJPEG			
Multi Streaming	H.264 + MJPEG, H.264+H.264			
Audio In	1			
Audio Out	1			
Alarm In	1			
Alarm Out	1			
User Account	20			

APPENDIX A

SET UP INTERNET SECURITY

If the installation of ActiveX Control is blocked, you will need to either set the Internet Security Level to the default setting, or change the ActiveX controls and plug-ins setting.

Setting Internet Security Level to Default

1. Open Internet Explorer.
2. Click the **Tools** tab in the menu bar.
3. Click Internet Options.
4. In the **Security** tab, select the appropriate **Internet Zone**.
5. Click Default Level.
6. Click **OK**.
7. Close the browser window. You will need to open a new window in order to access the IP camera.

Adjusting ActiveX Controls and Plug-ins

1. Open Internet Explorer.
2. Click the **Tools** tab in the menu bar.
3. Click Internet Options.
4. Click **Custom Level**. The **Security Settings** window will pop up.
5. Under **ActiveX Controls and Plug Ins**, set all items to **Enable** or **Prompt**. Items may vary according to your version of Internet Explorer.

ActiveX controls and plug-ins settings:

- Allow previously unused ActiveX controls to run without prompt.
 - Allow Scriptlets.
 - Automatic prompting for ActiveX controls.
 - Binary and script behaviors.
 - Display video and animation on a web page that does not use external media player.
 - Download signed ActiveX controls.
 - Download unsigned ActiveX controls.
 - Initialize and script ActiveX controls not marked as safe for scripting.
 - Run ActiveX controls and plug-ins.
 - Script ActiveX controls marked safe for scripting.
6. Click **OK** to accept the settings and close the Security Settings window.
 7. Click **OK** to close the Internet Options screen.
 8. Close the browser window. You will need to open a new window in order to access the IP camera.

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