

OpenEye[®]

ME - SERIES CLOUD MANAGED APPLIANCE

OPERATIONS MANUAL



OpenEye[®] | THERE'S MORE TO BE SEEN

OpenEye ME-Series Recorders
Hardware Manual

Manual Edition 35447AE – July 2019

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The following words and symbols mark special messages throughout this guide:



Note Text set off in this manner indicates information that is necessary for proper operation of the product.

IMPORTANT SAFEGUARDS

1. **Read Owner's Manual** – After unpacking this product, read the owner's manual carefully, and follow all the operating and other instructions.
2. **Power Sources** – This product should be operated only from the type of power source indicated on the label. If not sure of the type of power supply to your home or business, consult product dealer or local power company.
3. **Ventilation** – Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or OpenEye's instructions have been adhered to.
4. **Heat** – The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products that produce heat.
5. **Water and Moisture** – Do not use this product near water. Do not exceed the humidity specifications for the product as detailed in the Appendix section in this manual.
6. **Cleaning** – Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
7. **Power Cord Protection** – Power-supply cords should not be routed so that they are likely to be walked on or pinched by items placed against them, paying particular attention to cords at plugs, receptacles, and the point where they exit the product.
8. **Overloading** – Do not overload wall outlets; extension cords, or integral convenience receptacles as this can result in a risk of fire or electrical shock.
9. **Object and Liquid Entry Points** – Never insert foreign objects into the recorder, other than the media types approved by OpenEye, as they may touch dangerous voltage points or short-out parts that could result in a fire or electrical shock. Never spill liquid of any kind on the product.
10. **Accessories** – Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious personal injury and serious damage to the product.
11. **Disc Tray** – Keep fingers well clear of the disc tray as it is closing. Neglecting to do so may cause serious personal injury.
12. **Burden** – Do not place a heavy object on or step on the product. The object may fall, causing serious personal injury and serious damage to the product.
13. **Disc** – Do not use a cracked, deformed, or repaired disc. These discs are easily broken and may cause serious personal injury and product malfunction.
14. **Replaceable Batteries** – CAUTION: Risk of Explosion if Battery is replaced by an Incorrect Type. Dispose of Used Batteries According to the Instructions.
15. **Grounded Outlet** – This equipment shall be connected to a properly grounded outlet.
16. **Outlet Location** – This equipment must be installed within six feet of an easily accessible outlet.
17. **Damage Requiring Service** – Unplug the unit from the outlet and refer servicing to qualified service personnel under the following conditions:
 - When the power-supply cord or plug is damaged.
 - If liquid has been spilled, or objects have fallen into the unit.
 - If the unit has been exposed to rain or water.
 - If the unit does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of

other controls may result in damage and will often require extensive work by a qualified technician to restore the unit to its normal operation

- If the unit has been dropped or the enclosure has been damaged.
 - When the unit exhibits a distinct change in performance - this indicates a need for service.
18. **Servicing** – Do not attempt to service this product unless instructed to by an OpenEye engineer. Opening or removing covers may expose the user to dangerous voltage or other hazards. Refer all servicing to qualified personnel.
 19. **Replacement Parts** – When replacement parts are required, be sure the service technician has used replacement parts specified by OpenEye or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.
 20. **Safety Check** – Upon completion of any service or repairs to this unit, ask the service technician to perform safety checks to determine that the unit is in proper operating condition.

NOTES ON HANDLING

Please retain the original shipping carton and/or packing materials supplied with this product. To ensure the integrity of this product when shipping or moving, repackage the unit as it was originally received from OpenEye.

Do not use volatile liquids, such as aerosol spray, near this product. Do not leave rubber or plastic objects in contact with this product for long periods of time. They will leave marks on the finish.

The top and rear panels of the unit may become warm after long periods of use. This is not a malfunction.

NOTES ON LOCATING

Place the unit on a level surface. Do not use it on a shaky or unstable surface such as a wobbling table or inclined stand.

If this unit is placed next to a TV, radio, or VCR, the playback picture may become poor and the sound may be distorted. If this happens, place the recorder away from the TV, radio, or VCR.

NOTES ON CLEANING

Use a soft dry cloth for cleaning.

For stubborn dirt, soak the cloth in a weak detergent solution, wring well and wipe. Use a dry cloth to wipe it dry. Do not use any type of solvent, such as thinner and benzene, as they may damage the surface of the recorder.

If using a chemical saturated cloth to clean the unit, follow that product's instructions.

NOTES ON MAINTENANCE

This recorder is designed to last for long periods of time. To keep the recorder always operational we recommend regular inspection maintenance (cleaning parts or replacement). For details contact the nearest dealer.

NOTES ON MOISTURE CONDENSATION

Moisture condensation could damage the recorder. Read the following information carefully.

Moisture condensation might occur under the following circumstances:

- When this product is brought directly from a cool location to a warm location.
- When this product is moved to a hot and humid location from a cool location.
- When this product is moved to a cool and humid location from a warm location.
- When this product is used in a room where the temperature fluctuates.
- When this product is used near an air-conditioning unit vent.
- When this product is used in a humid place.

Do not use the recorder when moisture condensation may occur.

If the recorder is used in such a situation, it may damage discs and internal parts. Remove any CD discs, connect the power cord of the recorder to the wall outlet, turn on the recorder, and leave it for two to three hours. After two to three hours, the recorder will warm up and evaporate any moisture. Keep the recorder connected to the wall outlet and moisture will seldom occur.

WARNING

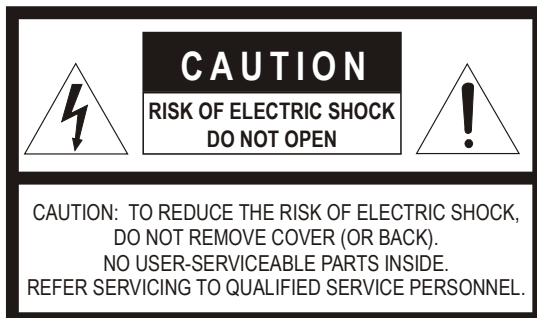
TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

DANGEROUS HIGH VOLTAGES ARE PRESENT INSIDE THE ENCLOSURE.

DO NOT OPEN THE CABINET.

REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

THIS DEVICE IS TO BE CONNECTED ONLY TO POE NETWORKS WITHOUT ROUTING TO THE OUTSIDE PLANT.



EXPLANATION OF GRAPHICAL SYMBOLS

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of un-insulated "dangerous voltage" within the product enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



FCC STATEMENT

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at their own expense.

Standard Warranty

OpenEye warrants all new products to be free from defects in workmanship and material under normal use **for a period of three 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 analog 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.*

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

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INTRODUCTION

PRODUCT DESCRIPTION



OpenEye ME model cloud managed recorders are turn-key appliances designed for hassle free, plug-n-play installation. ME model recorders come equipped with an integrated PoE switch for connecting IP cameras directly to the recorder and come preloaded with OpenEye's powerful Apex recording software.

All OpenEye M-Series recorders are designed for deployment with OpenEye Web Services, allowing centralized administration of users, permissions, and system settings. These recorders also utilize OpenEye's Web Connect technology for single sign-on, roaming profiles, and automated internet connectivity.

To learn more about the ME model recorder or the rest of OpenEye's M-Series recorder lineup visit www.openeye.net.

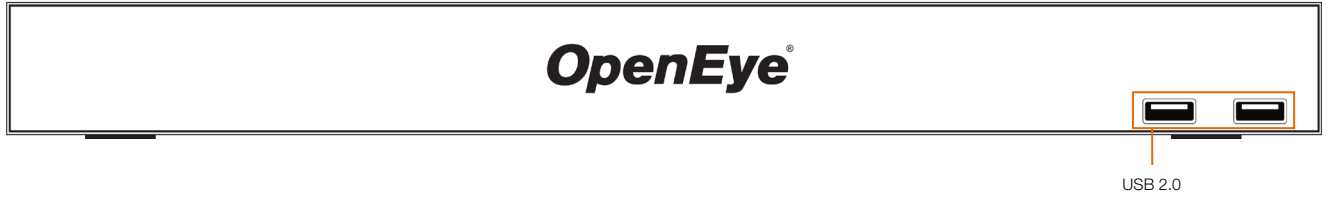
FEATURES

OpenEye Apex Server ME-Series recorders include the following features:

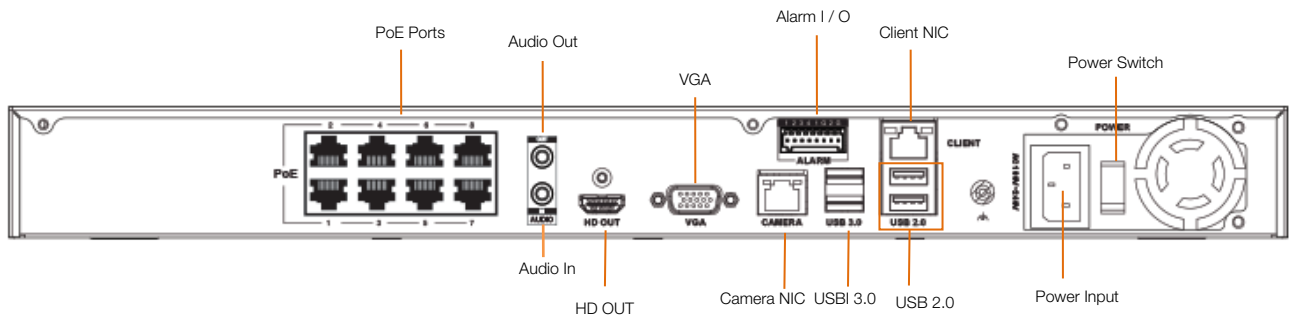
- Fully integrated with OpenEye Web Services (OWS)
- Complete remote operation and administration with Web Connect
- Online User Management via OWS
- Cloud video export and sharing
- Cloud-based health monitoring and reporting with real time alerts
- Remote software updates with no need to be on-site
- Advanced cyber security including multi-factor authentication for remote access
- Support for all major Windows and Mac browsers with no plug-ins to install
- Mobile apps available for Android and iOS
- Solid State OS drive for improved reliability and fast boot times

CONTROLS AND CONNECTIONS

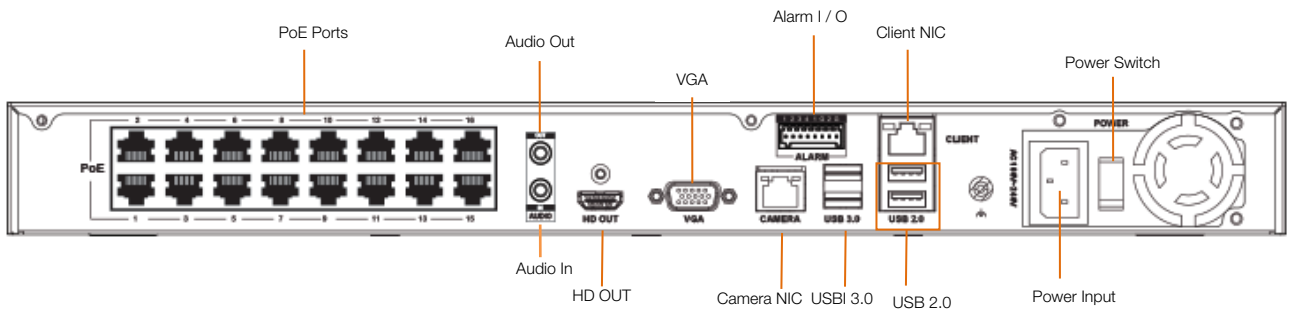
ME-SERIES FRONT PANEL



ME-SERIES REAR PANEL (8 CHANNEL)






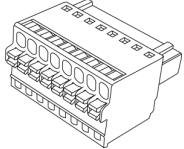
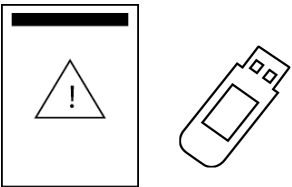
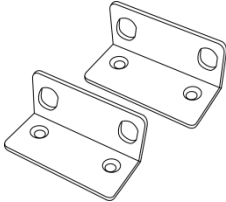
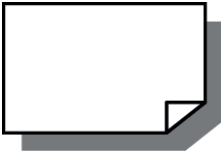
ME-SERIES REAR PANEL (16 CHANNEL)



GETTING STARTED

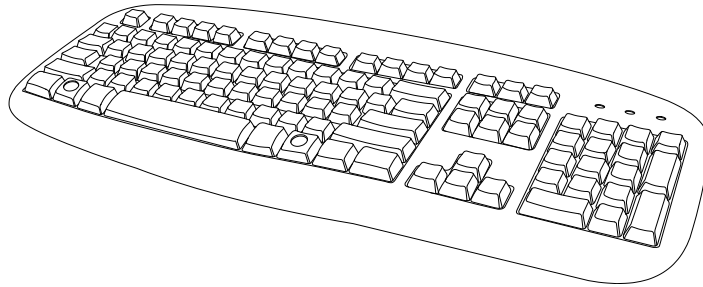
BOX CONTENTS

OpenEye OE-ME Apex recorders come with a power cord, keyboard, mouse, rackmount ears, and a recovery USB. A QuickStart guide and other necessary documentation are also included. Identify the following components to make sure everything has been properly included with your new recorder. If any of the following items are missing, contact the dealer to arrange a replacement.

 <p>OE-ME Apex Recorder</p>	 <p>Power Cord</p>
 <p>Keyboard and Mouse</p>	 <p>Alarm I / O Block</p>
 <p>Recovery Instructions and Recovery USB</p>	 <p>Rack Mount Installation Kit</p>
 <p>QuickStart Guide</p>	

KEYBOARD SETUP

To attach the keyboard, connect the keyboard to a USB port located on the back of the recorder.



MOUSE SETUP

To attach the mouse to your recorder, connect the mouse to a USB port located on the back of the machine.

In this manual:

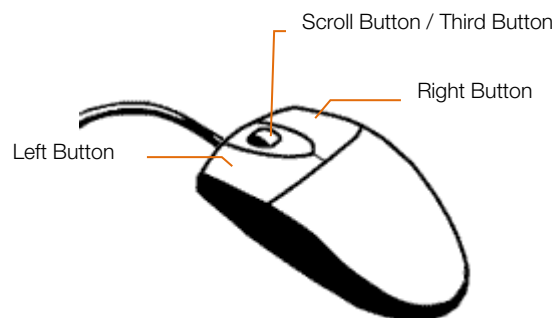
Click means to position the mouse cursor over an item and to single click the left button.

Right click means to position the mouse cursor over an item and to single click the right button.

Double-click means to position the mouse cursor over an item and to click the left button twice.

Select means to position the mouse cursor over a radio button, checkbox, or list item and click on it.

The scroll wheel in between the two buttons is used for added navigation functionality. By moving the wheel with index finger (scrolling), quickly move through multiple pages, lines, or windows. The wheel may also function as a third button allowing the user to quickly click or double-click an icon or a selected item.



MONITOR SETUP

These connections are available to connect a monitor:



Attach the monitor(s) to the rear of the recorder using the cable supplied by the monitor manufacturer. Refer to the monitor manual for detailed information on how to setup and use it.



Note The monitor must be capable of a minimum screen resolution of 1024x768 and support 32 bit color.



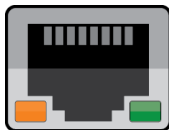
Note Maximum VGA Resolution: 1920 x 1080/60Hz
Maximum HDMI® Resolution: 3840 x 2160/30Hz

CONNECTING A CAMERA USING A POE PORT

The ME-Series Apex Server recorder is equipped with an on-board Power over Ethernet (PoE) switch for use with PoE IP cameras. OpenEye PoE cameras are connected to the recorder using the PoE switch and begin displaying video immediately with no manual configuration required.

Connect one end of the network cable to the RJ-45 connector of the camera and the other end of the cable to the on-board PoE switch.

Check the status of the link indicator and activity indicator LEDs. If the LEDs are unlit, check the LAN connection.



The Orange activity light flashes to indicate network activity.
The Green link light indicates a good network connection.

CONNECTING A CAMERA USING THE CAMERA NETWORK

Apex automatically detects ONVIF Profile S compliant IP cameras if:

The cameras are set to a discoverable IP address - 192.168.51.2 – 254

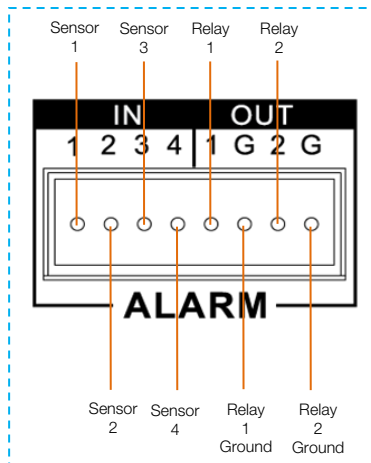
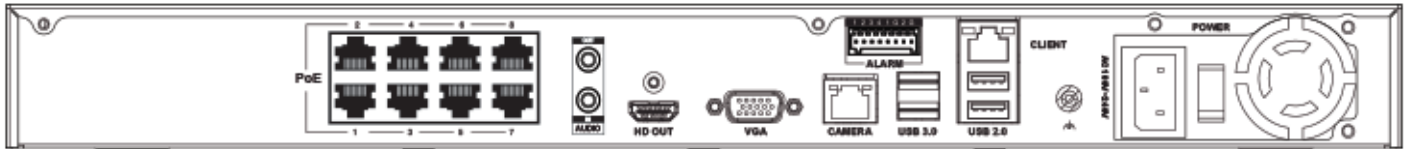
This is easily accomplished using Network Camera Manager:

1. Download NCM from www.openeye.net
2. Connect your PC to the switch with your cameras
3. Enable ONVIF detection for 3rd party cameras
4. Input login credentials in Camera Credentials section

Camera(s) and camera NIC are connected to a DHCP network:

If the camera is a 3rd party device it needs to be set to DHCP. If using a DHCP server, the IP address of the camera NIC needs to be set to DHCP

SENSOR / RELAY CARD



Note When connecting a sensor to the sensor relay block, use grounds on the relay side (Relay 1 Ground or Relay 2 Ground) as the sensor ground. Terminals on the sensor side will not provide a ground.

SETTING UP THE RECORDER FOR THE FIRST TIME

1. Connect the network cable intended for remote connection to the **Client NIC**.



Note The Camera NIC is intended for use with a dedicated camera network.

Note The Client NIC is intended for use to access the internet and provide remote client connections.

2. Connect the supplied **keyboard** and **mouse** using the rear USB ports.
3. Connect a **monitor** using the HDMI® or VGA ports.
4. Connect the **cameras** to PoE ports.
5. Log in to the Apex Server recorder using the default credentials:
Username: admin
Password: 1234
6. Follow the **Setup Wizard** to complete basic setup of your system.

OPERATING YOUR RECORDER

TURNING ON THE RECORDER

1. Turn on the monitor connected to your recorder.
2. Use the power switch on the rear of the recorder to turn the recorder **On**.
3. The recorder will run a series of self-tests. If asked to respond to any messages, follow the instructions carefully.

Startup is complete when the Apex Server software is finished loading and displays the main login screen.

TURNING OFF THE RECORDER

1. Click **Setup**, and then click **Power Options**.
2. Click **Power Off**.

REIMAGING YOUR APEX SERVER RECORDER

1. Insert the **Recovery USB** drive into an available USB port, and then restart the recorder. For faster completion, it is recommended to insert the USB drive into a USB 3.0 port.
2. If the USB does not auto boot into the Recovery menu, then restart the NVR and immediately press the F12 key on the keyboard until the Boot Device Menu appears on the screen.
3. Select the **UEFI: USB "device name"** option, and then press **Enter**.
4. When the **System Recovery** window appears, click **Continue**, and then click **Ok**.
5. Choose the re-image option. **The Conditional Re-image** will erase the OS and all settings, but retain video data. **The Complete Re-image** will erase all settings and data on the primary drive.
6. Type the **unit serial number** found on the back or side of the unit.
7. Accept the warning message, and then click **Continue**.
8. Upon successful completion, click **Finish**, and wait for the recorder to reach the login screen before removing the USB.



Note Call OpenEye Support at 888-542-1103, option #2, for more information regarding the re-imaging process.

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