

Elements Video Recorder Installation Guide

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Introduction

This guide describes the hardware installation for the Elements Video Recorder (EVR), an IP video server that provides video management capabilities—including recording, advanced surveillance, and forensics—for Elements systems.

The following information is included in this guide:

- Hardware specifications ([page 7](#))
- Mounting options ([page 7](#))
- Instructions for connecting power and the network ([page 9](#))
- System status information ([page 12](#))

Note:

Check the LenelS2 web site (welcometoelements.com) for updated specifications, lists of supported devices, and software updates.

Where to Go for More Information

When the hardware installation is complete, refer to the Elements online help for information on managing your cameras.

Installation Notes

Note to Installers

Install according to ANSI/NFPA70 National Electrical Code and local codes, and use only UL listed equipment.

Note:

This equipment is not suitable for use in locations where children are likely to be present.

CAUTION

OBSERVE STATIC ELECTRICITY PRECAUTIONS WHEN HANDLING AND INSTALLING LENEL S2 COMPONENTS. THESE COMPONENTS CAN BE DAMAGED BY STATIC DISCHARGE.

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WEEE Information



2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points.

Hardware

Hardware Specifications

The Elements Video Recorder (EVR) is a rack mount, disk-based network appliance.

Chassis dimensions for the recorder

Height	3.5 inches (88.90 millimeters)
Width	19.0 inches (482.60 millimeters)
Depth	14.58 inches (370.33 millimeters)

Specifications for the recorder

Chassis	2U with fixed drives
HDD bays	2
Motherboard	MX110H
Processor	i3
Memory	4 GB
HDD configuration	JBOD
OS drive	SSD
Power input rating	100-240VAC @50-60 Hz, 4-2A

Environmental requirements for the recorder

Operating temperature	50° to 95° F (10° to 35° C)
Storage temperature	-4° to +158° F (-20° to +70° C)
Operating humidity	85%, non-condensing 49° C

Mounting the Enclosure

The Elements Video Recorder enclosure can be surface mounted or rack mounted.

Surface-Mounting the Enclosure

The installation kit includes four rubber feet for placing the enclosure on a tabletop or desktop.

To surface-mount the enclosure:

1. Swab the feet locations (marked on the bottom of the enclosure) with an alcohol wipe.
2. Attach the adhesive-backed feet to the feet locations.
3. Place the unit where it will be used.

Rack-Mounting the Enclosure

The installation kit includes two brackets and six screws for attaching them to the enclosure.

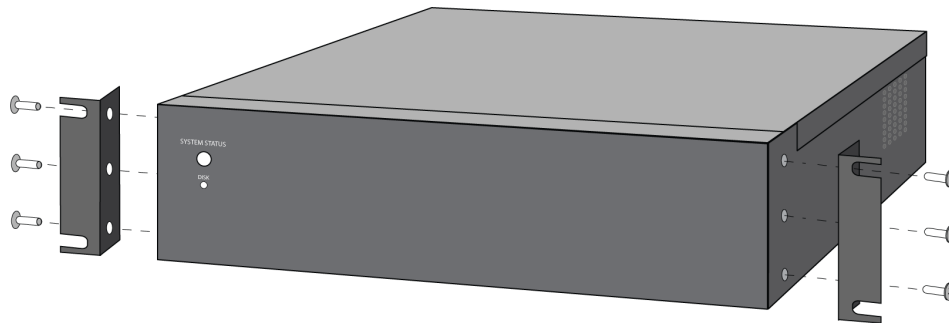


Figure 1. Attaching the rack-mount brackets.

To install the rack-mount enclosure:

1. Remove the three plastic plugs from the screw locations on each side.
2. Use the six provided screws to attach the rack-mount brackets.
3. Install the unit in a standard 19-inch rack.

Video Recorder Installation

Before installing the recorder, make note of its System ID. The System ID is printed on a label affixed to the recorder.

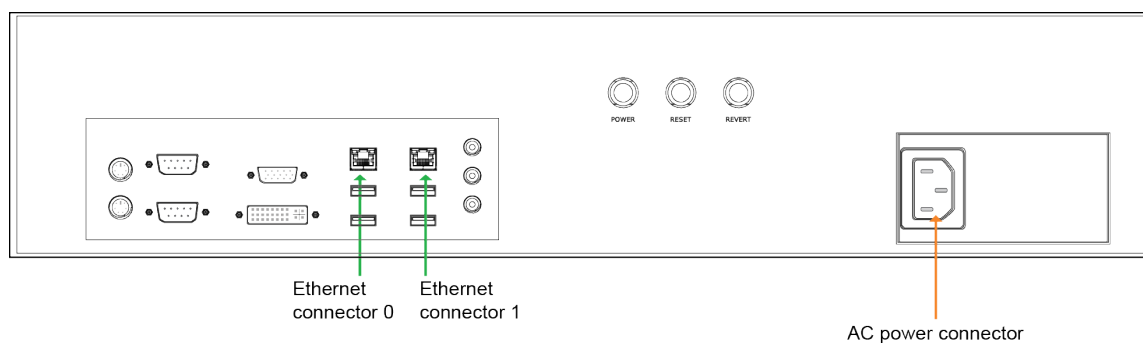


Figure 1. Recorder back panel.

Connect the Recorder

1. Connect the recorder to an internet-accessible network. Use the Ethernet port on the left on the back of the recorder (Ethernet 0). The Ethernet port on the right (Ethernet 1) is not configured and should not be used.

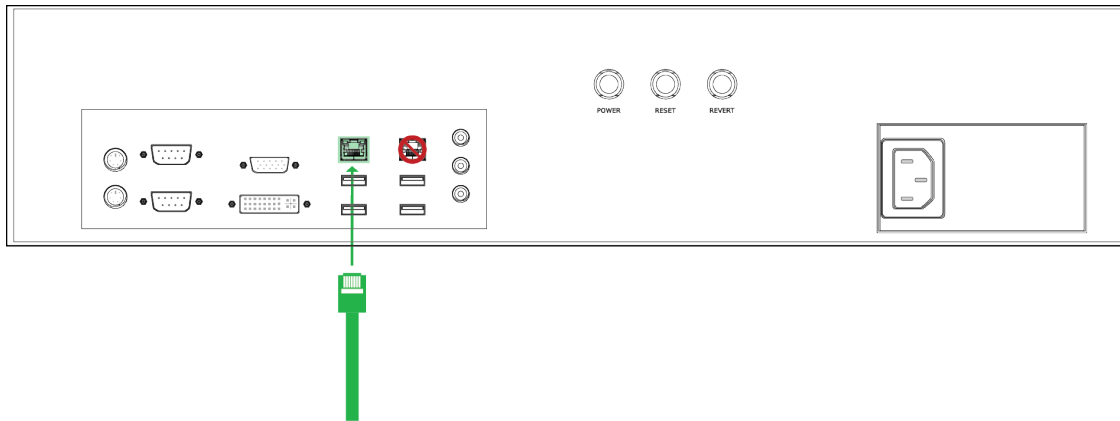


Figure 2. Ethernet connection on recorder back panel

- The recorder depends on the network being configured for DHCP. If a static IP address is needed for the recorder, it must be configured using MAC address mapping on the DHCP server.
 - Proxy configuration is not supported.
2. Connect the recorder to power.

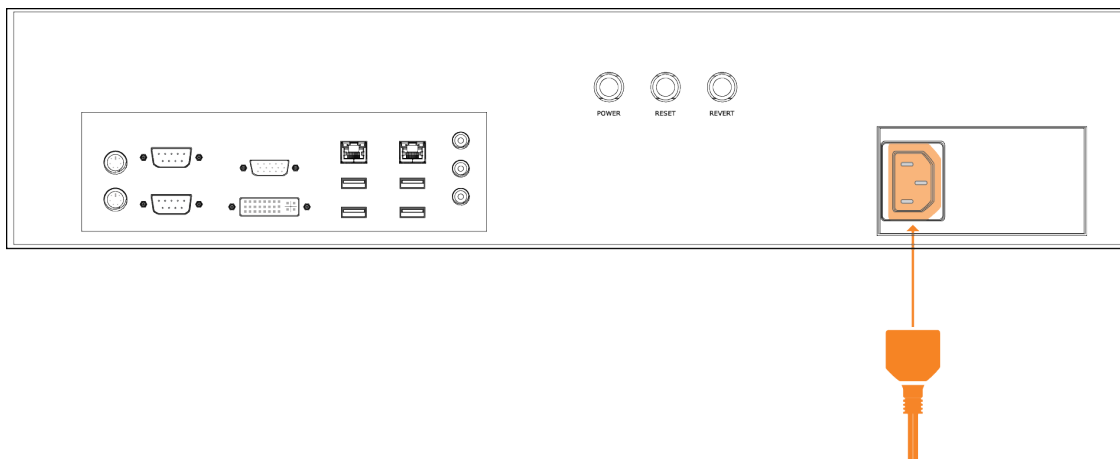


Figure 3. Power connection on recorder back panel

3. Power on the recorder.

**CAUTION:**

Never power down the system by pulling the power cord. Instead, press and hold the power button on the front control panel for three seconds to initiate a system power down.

After being connected and powered on, the recorder communicates over the internet. All connections that the recorder establishes are outbound. The firewall does not need any ports opened for inbound connections.

Power and Reset

The recorder has three buttons on the back panel:

- **Reset** - Press this button to restart the system.
- **Power** - Press this button momentarily to power on the system. When the system is up and running, press this button momentarily to initiate an orderly system shutdown and power down. Hold this button down for three seconds to initiate a hard system shutdown and power down.
- **Revert** - This button is not used.

Configuration

For information on configuring the video recorder, refer to the Elements online help.

Video Recorder Status

A single LED installed in a USB port of the recorder indicates the system status.

Table 4. System Status

LED Behavior	Status
Fast blinking white	Initialization
Fast blinking red	No network connection or IP address
Double blinking red	System registration service unreachable
Blinking yellow	System registration service reachable, not connected to IoT
Alternate blinking red, yellow	Lost connection to IoT Hub
Steady green	Recorder operational
LED off	Recorder powered off

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