CRATUS

SOHO-H

Camera-Based
AI - Enabled EHS (Safety)
Installation Manual

Overview

This manual guides you through the installation and setup of the SOHO-H Enclosure, including system mounting, camera placement, connectivity, and initial setup. Please follow these steps carefully to ensure optimal performance and safety.

What's Included

- SOHO-H Enclosure
- 6-Pin Connector (pre-installed on unit) for easy port connections
- Mounting Brackets (x4)
- Power Cable
- Camera(s)

Note: Ethernet cables are not included. Installer or end user must supply a Cat5 or higher-rated cable.

Step 1: Mounting the SOHO-H Enclosure
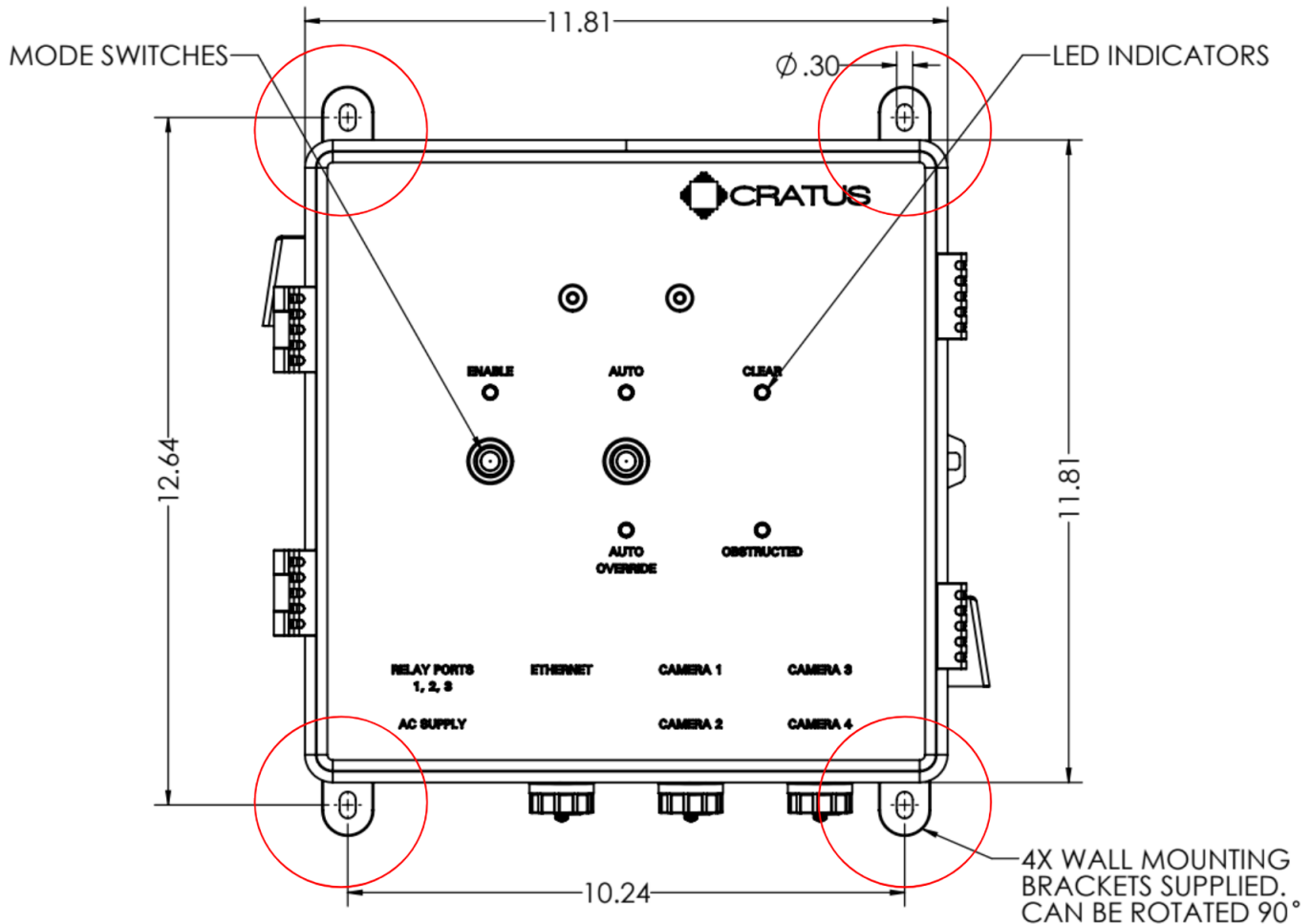
1. Attach Brackets

Secure the included mounting brackets to each corner of the SOHO-H Enclosure. The brackets are designed to extend outward, allowing a bolt to pass through the outer hole for wall installation.

2. Wall Mounting

Using appropriate bolts (not included), mount the SOHO-H Enclosure to your desired surface.

Tip: For maximum stability, use all four brackets and secure the system at all corners.

Step 2: Camera Placement

1. Choose the Camera Location

For the Lite version, one camera is included.

For the Pro version, the system supports a maximum of four cameras. You will need to mount and connect each additional camera in your desired monitoring zones.

Mount each camera high above the area you wish to monitor, angled downward for full visibility.

Each monitored zone will serve as a landmark area for human and object detection.

2. Connect the Camera(s)

Using a Cat5 (or higher) Ethernet cable (end user supplied) that is long enough, plug one end of each cable into a camera, and the other into the designated camera ports on the SOHO-H Enclosure.

Step 3: Powering the System

1. Connect to Power

Plug the SOHO-H Enclosure into a standard electrical outlet using the supplied power cord.

2. Voltage Adjustment (If Needed)

If your outlet provides 240V, open the SOHO-H Enclosure and adjust the power supply settings as shown in the SOHO-H datasheet.
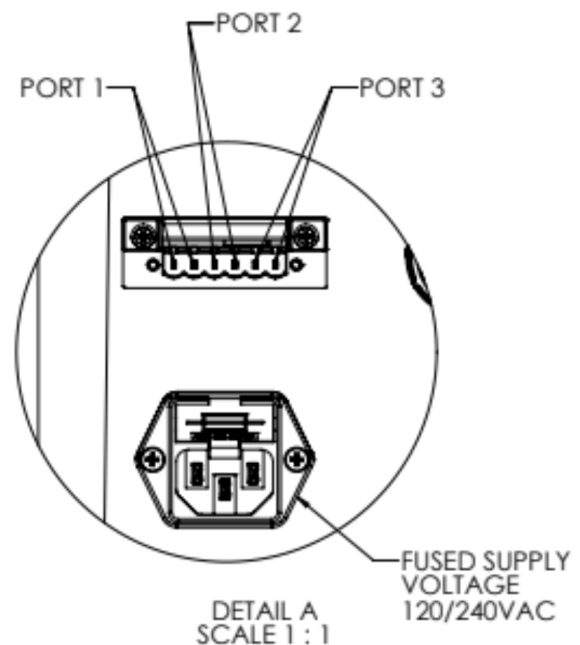
Step 4: Relay and Light Fixture Connections

The SOHO-H Enclosure features a 6-pin connection terminal:

- **Port #1 and #2 (First Two Pairs):** These are **Normally Closed (NC) relay connections**, intended for connecting to solenoids. These ports are used to cut the power from solenoids or actuators to stop the system when there is an obstruction in front of it.

- **Port #3 (Third Pair):** Optional **Normally Open (NO)** relay connection to an end-user supplied power source that can be used to route power to a **light fixture**, providing an additional layer of visual alert mechanism for additional safety. Use the included 6-pin male connector (installed into female connector on delivery) to connect to solenoids, actuators or light fixtures as needed.

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Male and Female 6-pin connectors

Detail of 6-pin female connector

System Control Switches and light indicators

If your outlet provides 240V, open the SOHO-H Enclosure and adjust the power supply settings as shown in the SOHO-H datasheet.

- **On/Off Switch:** This will completely shut off power to all devices inside the enclosure, including the camera. Use this to revert the system to manual operation.

- **Auto/Override Switch:** Similar to the On/Off switch in terms of hardware power-down, but the SOHO-H system will continue operating in the background. With the switch in the Auto position, the door mechanisms are controlled by the SOHO-H unit. When the switch is in the Override position the system will no longer be able to stop or control the door mechanisms.

- **Clear/Obstructed LED lights:** These indicate if the camera senses a clear path or an obstructed path in the Region of Interest.

Step 5: Setting up Region of Interest (ROI) Landmarks

The unit defaults to a pre-set ROI.
To re-configure the Landmark positions that dictate the ROI:

1. Choose One of the Following Connection Methods

- **Direct to Built in Ethernet Switch:** Use an Ethernet cable to connect a PC or a laptop to the SOHO-H Enclosure's **WAN port**.
- **Wireless Access:** Open devices wireless settings; under WIFI connections look for a network labeled **sohoh-xxxx**. It can take up to 5 minutes for the network name to show after power is turned on. The password will be the same as the WiFi network name. Connect to the network.

2. Access the Camera Feed

- On any browser, enter URL 192.168.169.100:8080 to access the live camera feed.

3. Set the Landmark Positions

- Once the page loads, if the camera feed does not appear check the "Socket" slider in the top-left corner: if it is off, click the slider to turn it on.
- When the camera feed becomes visible, click on **Camera Settings**.
- Select **Set Landmarks** to begin defining the region of interest.
- Click on each corner of the desired area within the camera view to place the landmarks. Each point you click defines the shape of the Region of Interest (ROI). Three landmarks define a triangular ROI while four landmarks define a rectangular ROI.
- After placing all landmarks, click **Save Landmarks** to apply the configuration.
- These positions will override the system's default settings.
- If the area is set incorrectly, restart the **Set Landmarks** process to redefine the positions.
- Once the ROI is set; exit the user interface and the ROI will now be the default when the unit is turned on.

Step 6: Finalizing Setup

After setting the Landmark positions:

- The system requires no internet connection for normal operation.
- Ensure the camera(s) are secure, cable connections are firm, and power is stable.
- Whenever there is a person or a vehicle detected inside the ROI, the relay outputs will change state, and the indicator LEDs on the enclosure will communicate the presence of objects in the ROI.

Need Help?

Use the QR code below to access the Cratus Technology support page for this product. Simply open your phone's camera and point it at the QR code. The camera will automatically detect and scan the code, displaying a notification or link on your screen. Tap the notification or link to open the website.