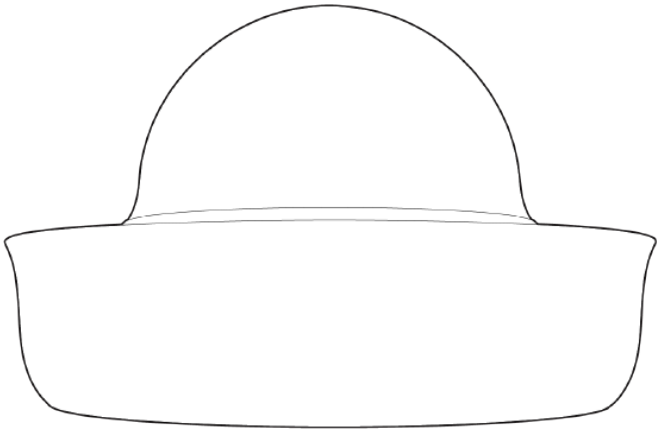
# MV73 Series Installation Guide

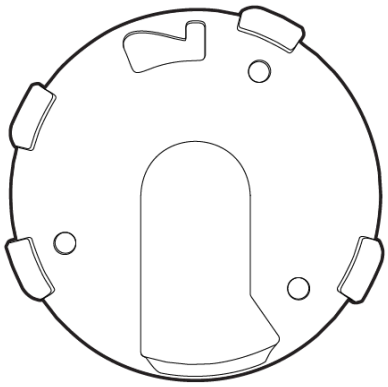
## MV73 Series Overview

The Cisco Meraki MV73 series are network cameras that are easy to deploy and configure. They integrate with the Meraki Dashboard and use cloud-augmented edge storage. The MV series removes the need for complex servers and video recorders. This eliminates the usual limits on video surveillance deployments.

## Package Contents:

In addition to the MV camera, the following are provided:





| Unit | MV73-HW |
| --- | --- |
| Mounting Equipment | 1 x base mount plate small<br>1x base mount plate large<br>1 x conduit adapter |

**MV73 series does not ship with mounting screws and anchors as an included accessory in the packaging content.**

Screw Recommendation:

- Type: **Self-Tapping Screw**
- Size: **M4**
- Length: **Minimum 25mm**
- Screw head diameter: **Maximum 10mm**
- Driver Type: **ANY** (eg: Philips)
- Head Type: **ANY** (Eg: Pan Head)
- Build Material: **Stainless Steel**

> The anchor's insertion diameter should be smaller than the screw's diameter. The anchor's length should be longer than the screw's length. Choose the appropriate anchor based on the material it will be installed in, such as concrete, brick, wood, or drywall.

## Powering the MV73 Series

The MV73 features a 1000BASE-TX Ethernet port and requires 802.3at PoE+ minimally for operation. Route the Ethernet cable from an active port on a PoE switch or injector.

> Power over Ethernet supports a maximum cable length of 300 ft (100 m).

# Pre-Install Preparation

You should complete the following steps before going on-site to perform an installation:

## Configure Your Network in the Dashboard

The following is a brief overview of the steps required to add an MV73 series camera to your network. For detailed instructions about creating, configuring and managing Meraki Camera networks, refer to the online documentation (https://documentation.meraki.com/MV).

1. Login to http://dashboard.meraki.com. If this is your first time, create a new account.
2. Find the network to which you plan to add your cameras or create a new network.
3. Add your cameras to your network. You will need your Meraki order number (found on your invoice) or the serial number of each camera, which looks like Qxxx-xxxx-xxxx and is found on the bottom of the unit.

4. Verify that the camera is now listed under Cameras > Monitor > Cameras.

## Check and Configure Firewall Settings

A firewall must allow outgoing connections on specific ports to certain IP addresses. Find the latest list of outbound ports and IP addresses for your organization under **Help > Firewall** Info on the dashboard.

## DNS Configuration Best practices for LAN Streaming

Each camera will generate a unique domain name for secured direct streaming functionality. These domain names resolve an A record for the private IP address of the camera. Any public recursive DNS server will resolve this domain.

If utilizing an on-site DNS server, please whitelist *.devices.meraki.direct or configure a conditional forwarder so that local domains are not appended to *.devices.meraki.direct and that these domain requests are forwarded to Google public DNS.

## Assigning IP Addresses

The MV73 series camera does not support static IP assignment. MV73 units must be connected to a subnet that uses DHCP and has available DHCP addresses to function properly.

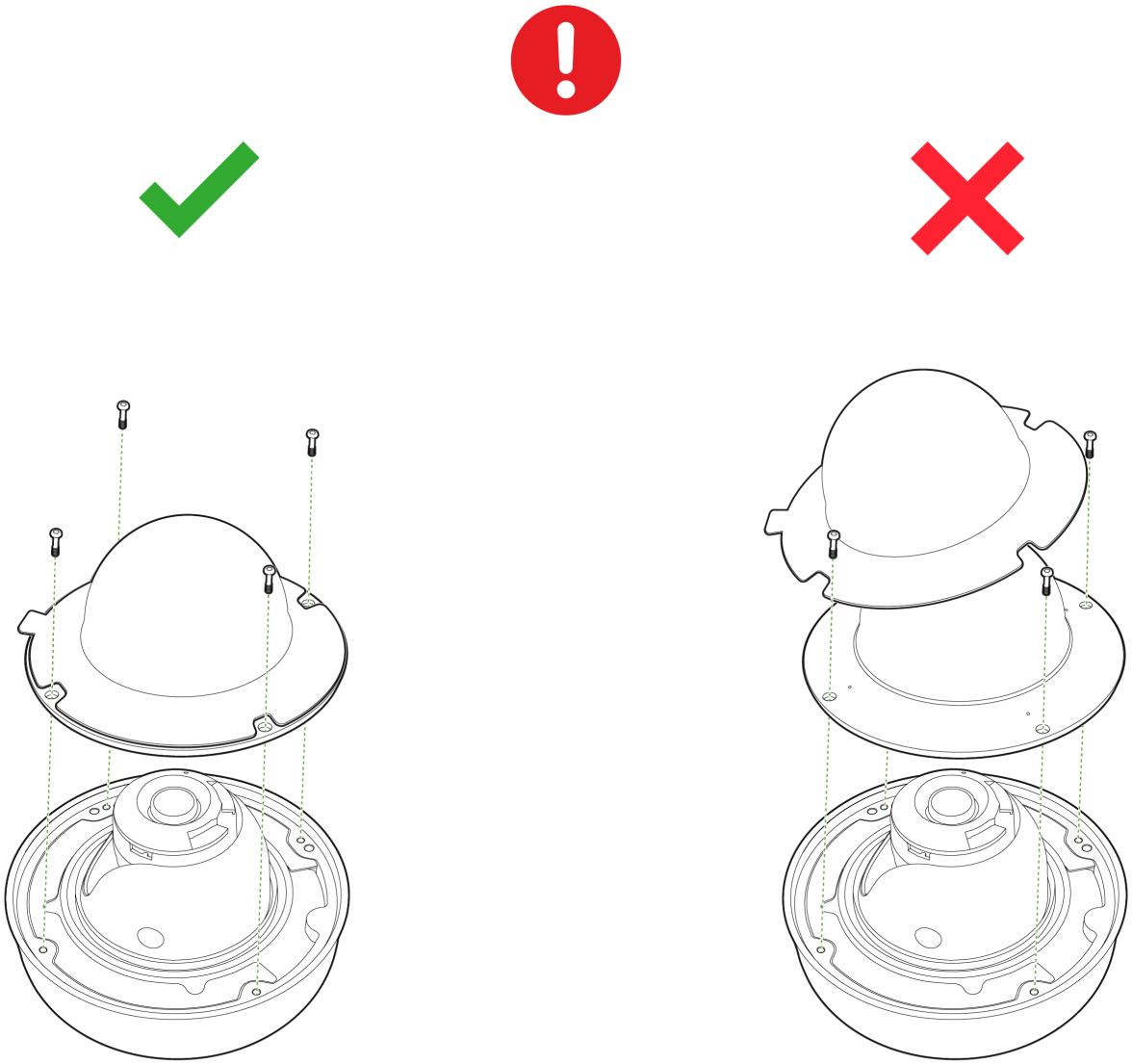
# Installation Instructions

> The MV73 series will automatically update to the latest stable firmware during the first setup. Some features may be unavailable until the update finishes. This process can take up to 5 minutes to enable whole disk encryption. You can monitor the progress by checking the MV LED status.

## Mounting Instructions

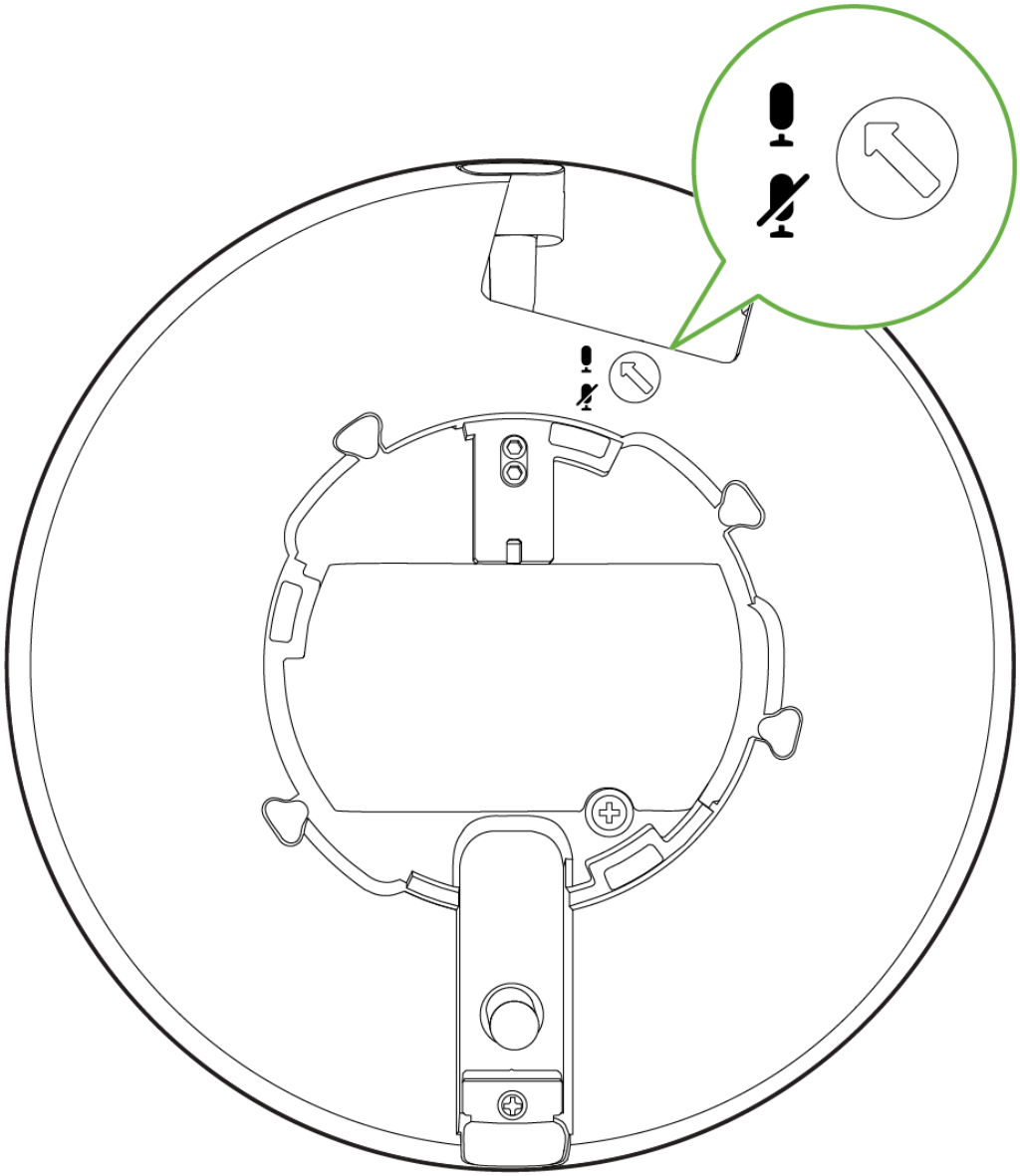
For most mounting scenarios, the MV73 wall mount provides a quick, simple, and flexible means for mounting your device. The installation should be done in a few simple steps:

> Leave the protective plastic cover on the optical dome throughout the installation process to prevent any damage to the dome. The protective cover should be removed once the installation is completed.



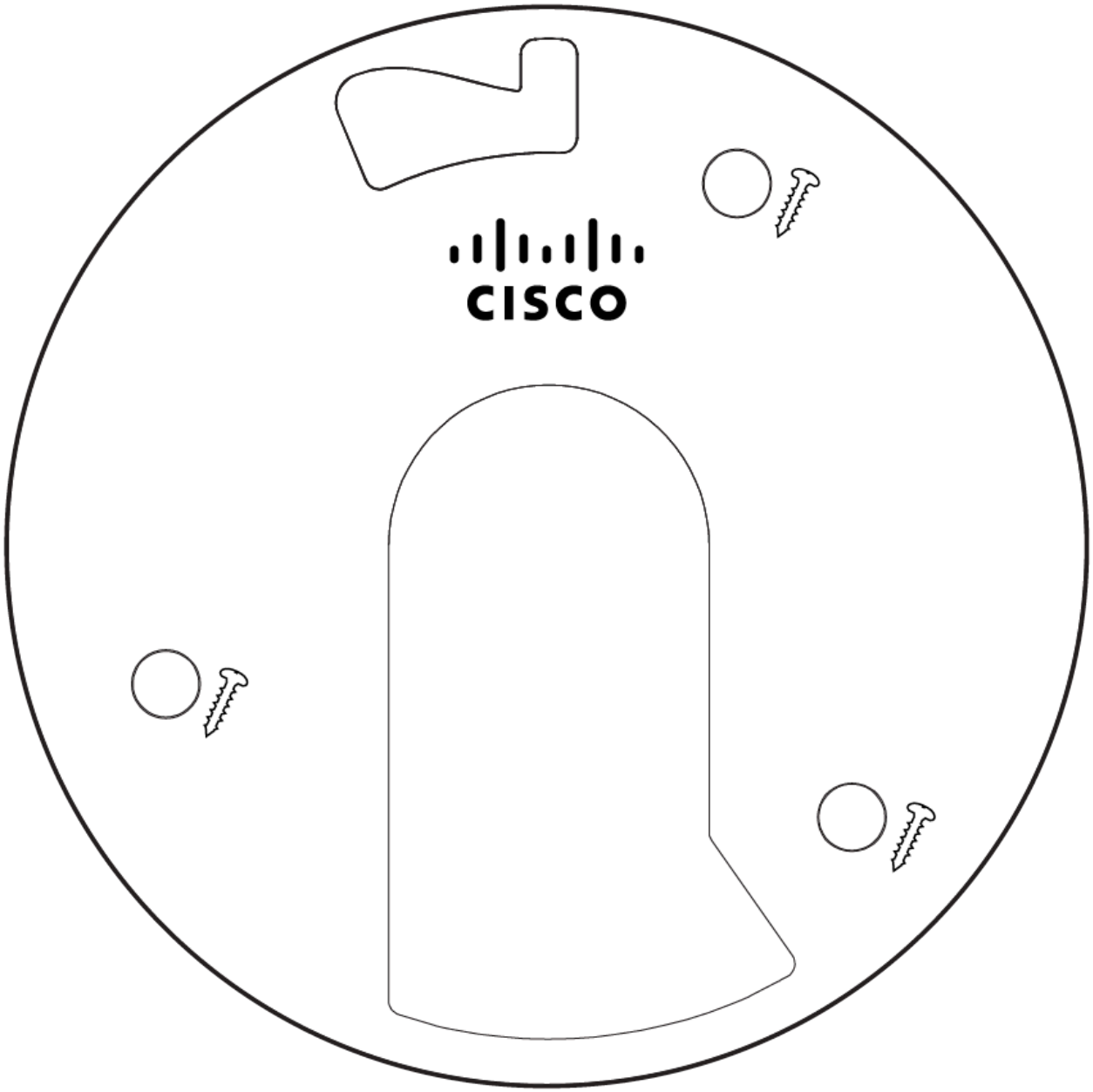
## Microphone Cut-off Switch:

The MV73 Series has a new microphone cut-off switch at the camera's base. This switch can be used to disable audio and override the Dashboard Audio Settings for an added layer of security. If the regulations require disabling audio or Dashboard control for Audio enablement needs to be disabled, the microphone cut-off switch can be leveraged and set to Disabled.



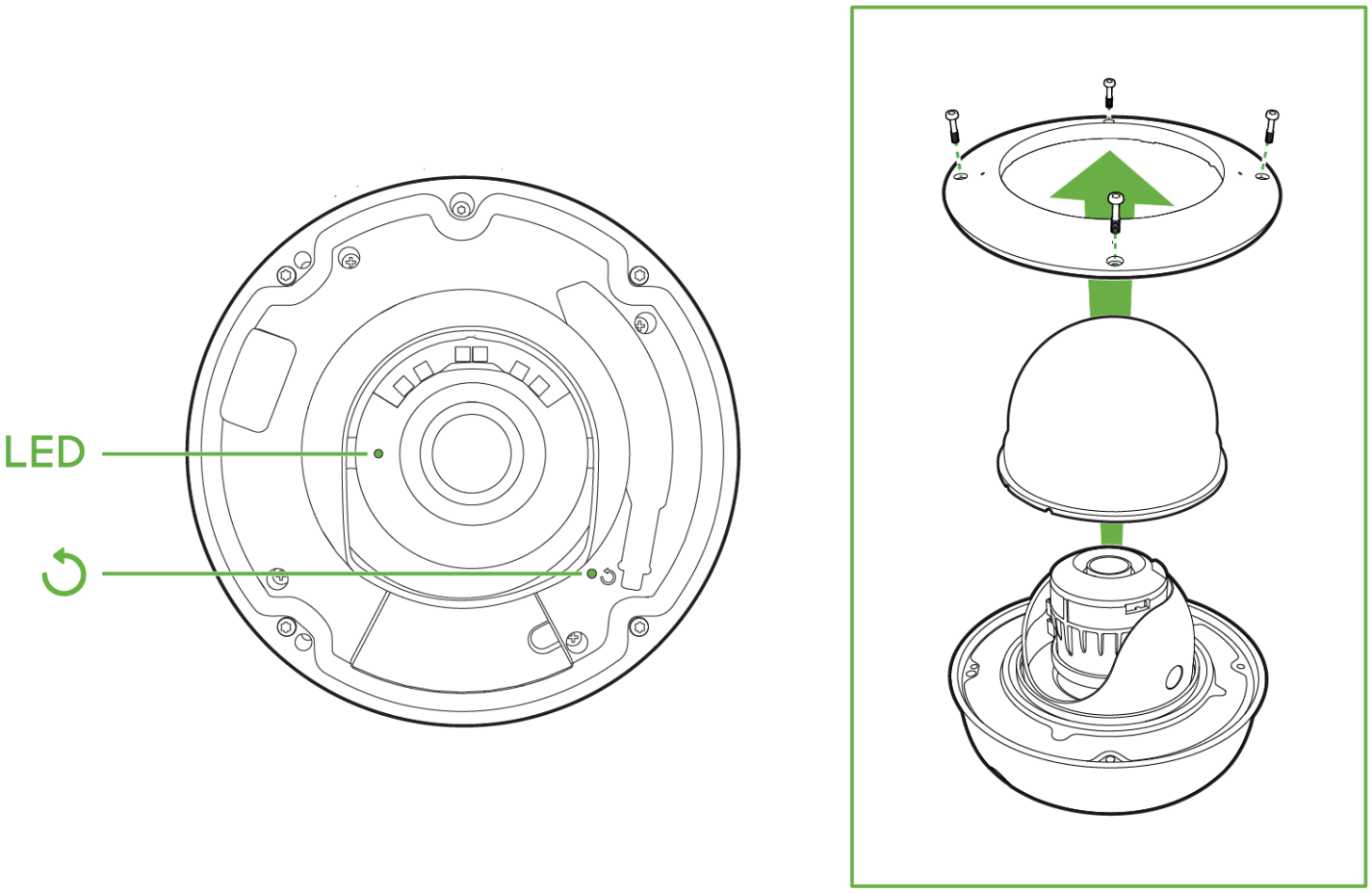
If the microphone switch is disabled and the camera is mounted, toggling the switch back ON would require accessing the camera's base.

- Use the template to determine mounting hole locations for wall mounting before screwing in the base mount plate. Peel backing from the mounting template to stick on the wall. Use template holes marked with the letter “A” for standard wall mounting. Screw the base mount plate onto the wall in predetermined locations using the provided wall screws.




## Factory Reset Button

The factory reset button for MV73 series is located on the front of the camera, under the dome.

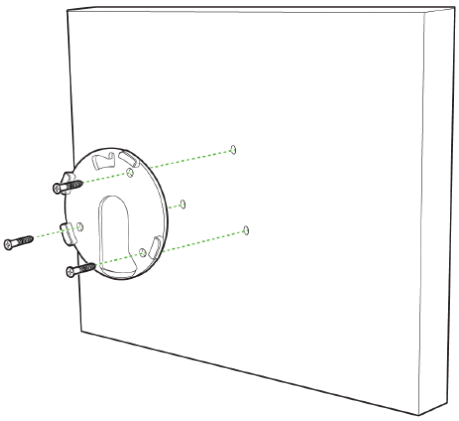



## MV73 Mount using small base plate:

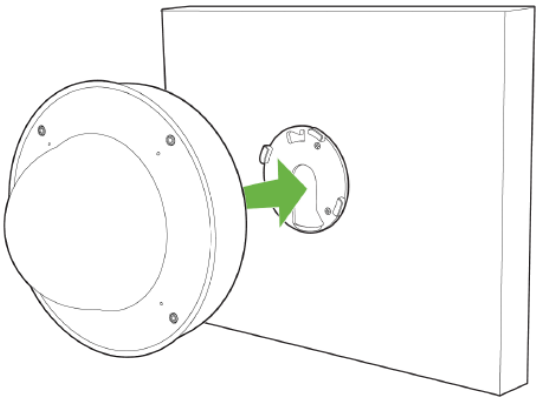
- Mount the small base plate onto the wall surface using the paper template provided.
- Use 3x Wall anchor and screws to fix the base plate to the wall.
- The MV73 Series cameras have a button to engage the locking mechanism. Press the button while aligning the camera to the small base plate.
- Twist the camera while holding the button until a click is heard.
- The camera is locked onto the plate and secured.
- Remove the protective cover
- Observe the status LED on the top side of the camera lens assembly and ensure the camera is connected via Ethernet (solid green) or WiFi (solid blue).

  An MV must first be provisioned over a wired Ethernet connection before it can be deployed wirelessly. See the setup guide here for information on how to connect via WiFi.

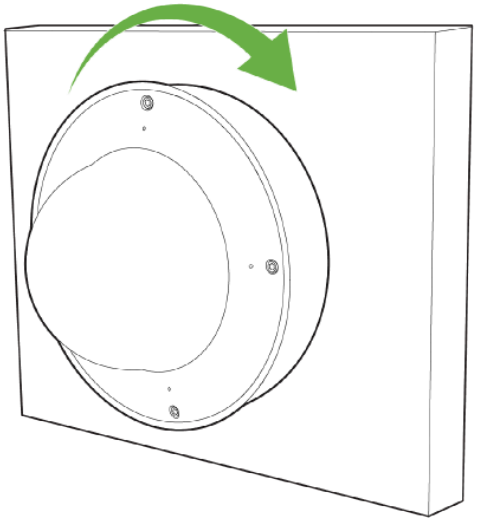
1

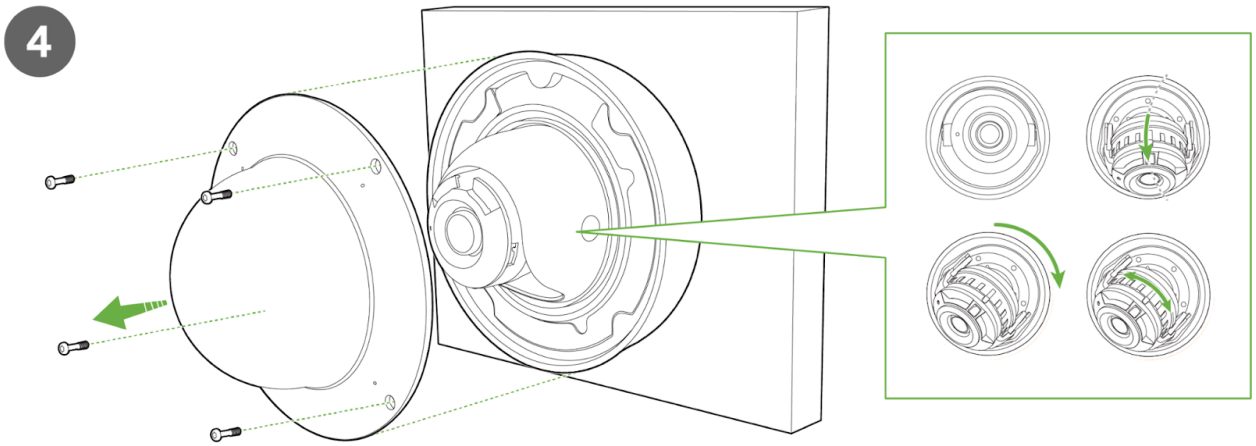


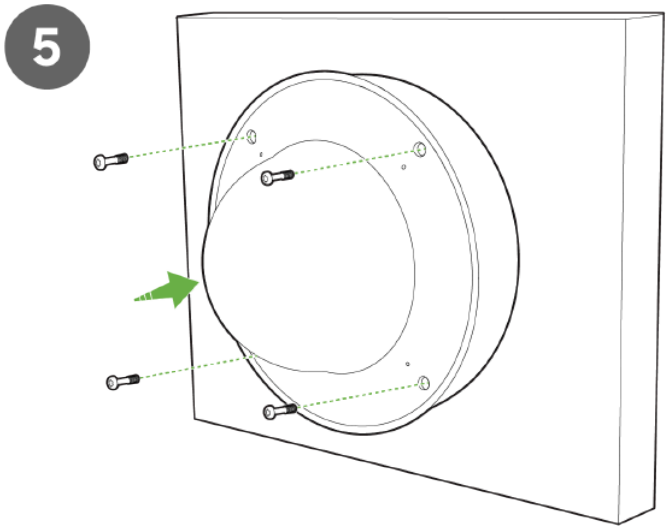
2



3



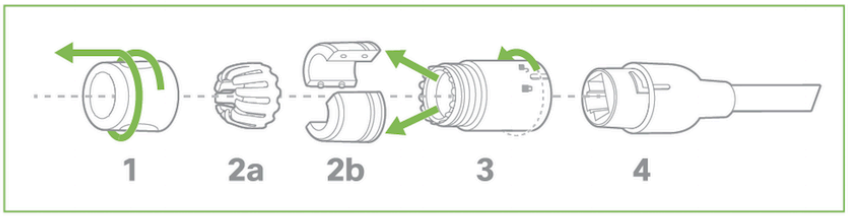


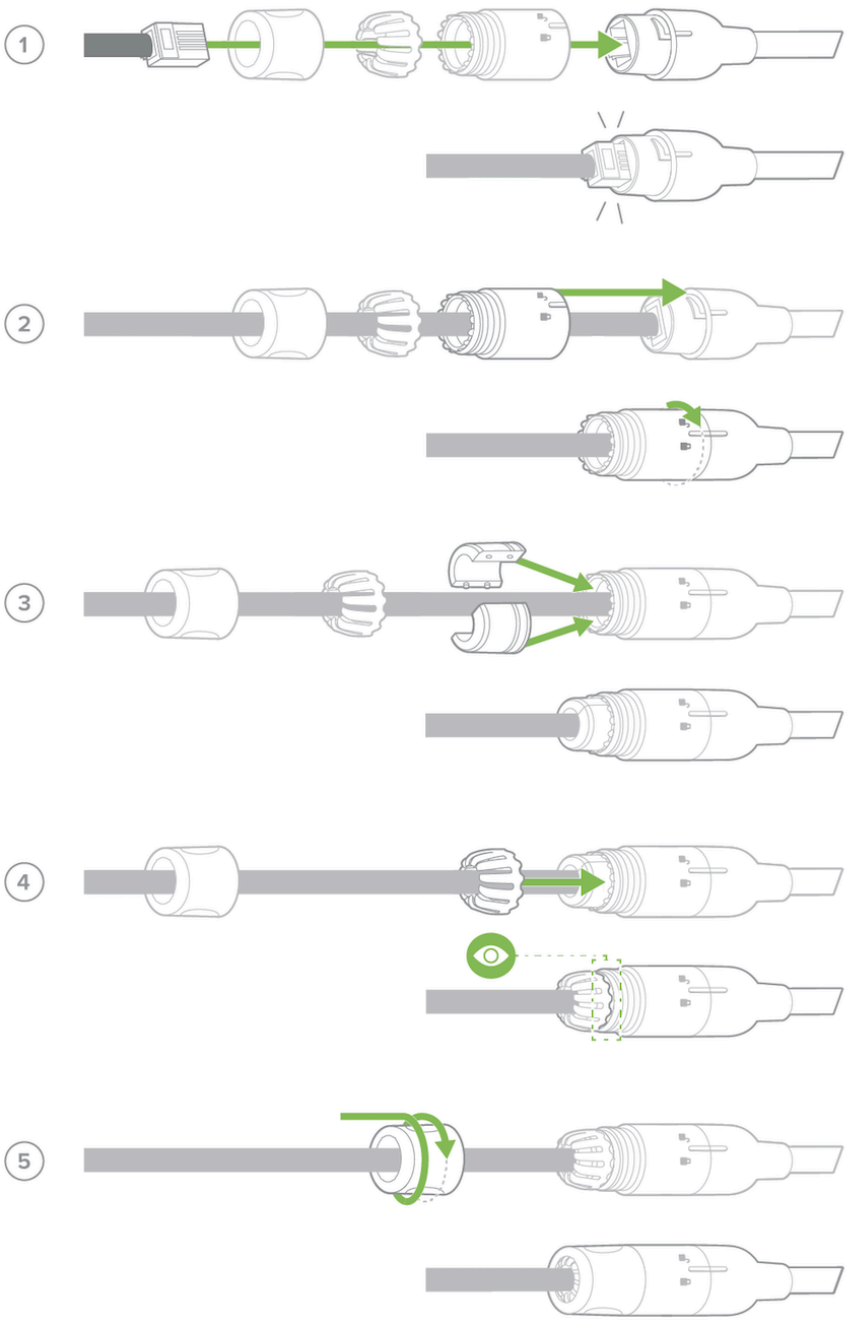




## Cable Gland Assembly and Installation

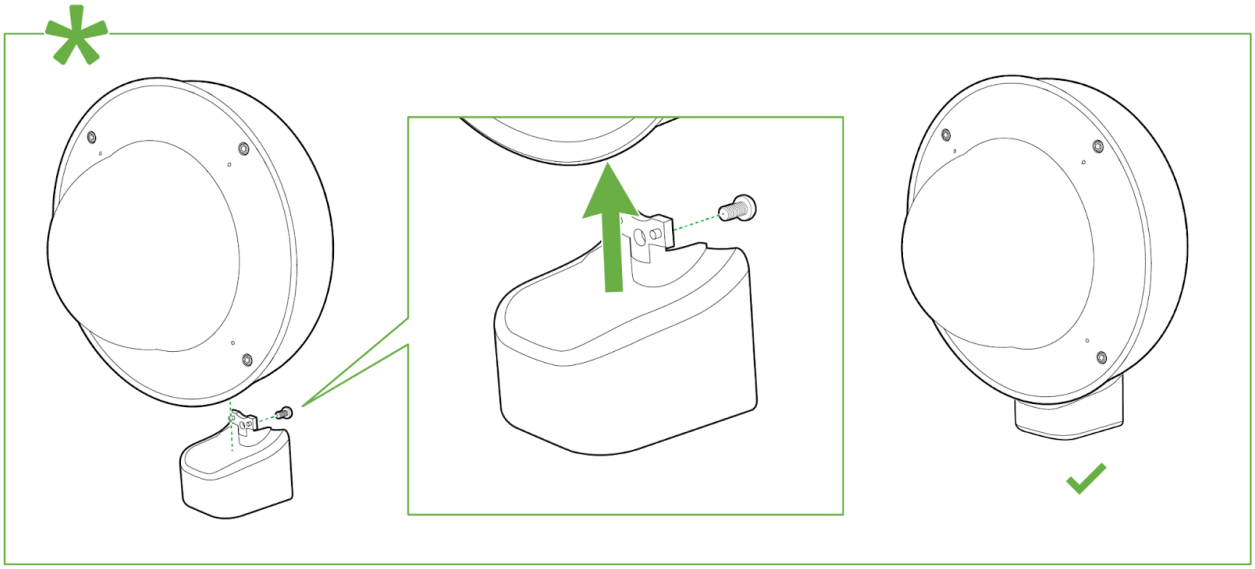
Follow this in-depth cable gland assembly guide to connect the PoE cable to the camera cable gland and ensure seal is water-tight. **This step is very important and may result in damage to the camera if done improperly.**

If installing external conduit terminated at the camera, ensure the camera conduit adapter and terminal adapter are pulled over the camera pigtail before making the connection to avoid the risk of water damage leading to hardware failure and warranty void.


1
2a
2b
3
4


1
2
3
4
5

# Installing the conduit box to MV73 series: (optional)

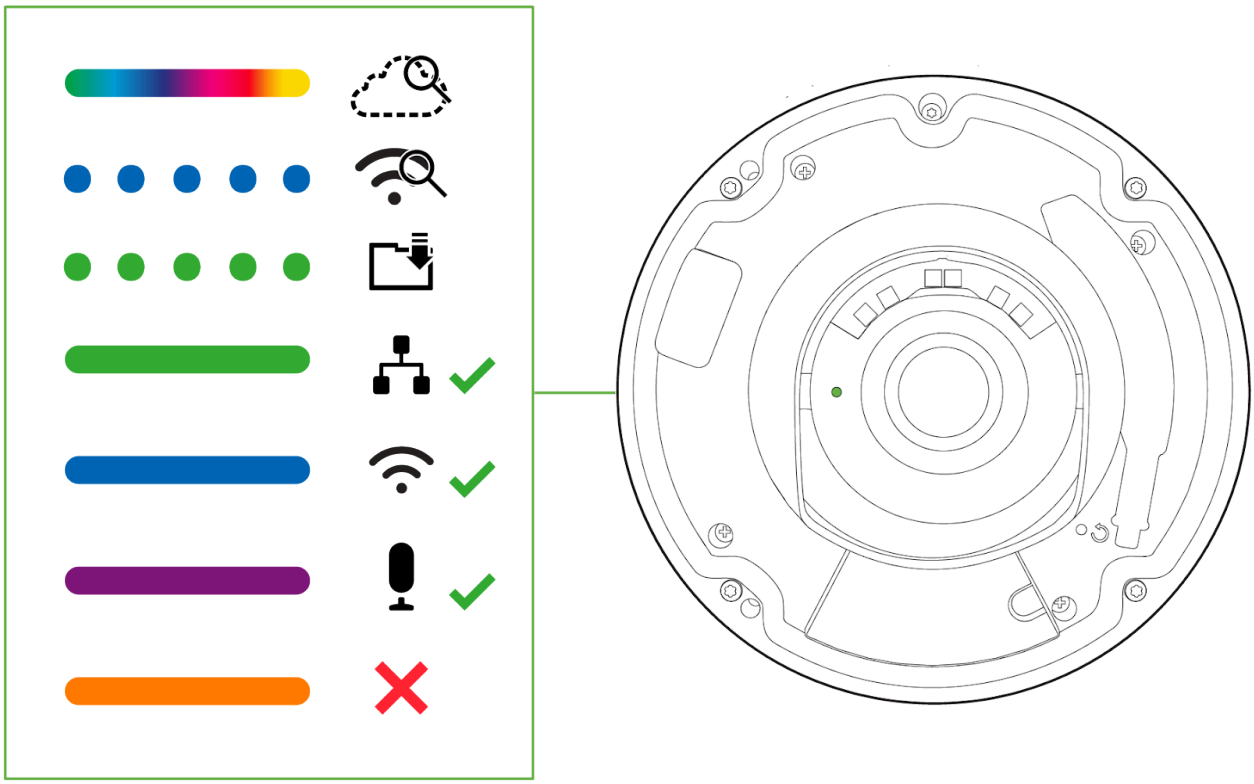


# MV73 LED Status Indicator

Your MV73 series is equipped with an LED light on the front of the unit to convey system functionality and performance information.

The following colours and patterns indicate the various status conditions of an MV:

- Rainbow (solid, rotating through colours) - MV is booting up.
- Flashing Blue - MV is searching for WiFi network(s).
- Flashing Green - MV is upgrading or initialising for the first time.
- Solid Green - MV is connected via Ethernet.
- Solid Blue - MV is connected via WiFi.
- Solid Violet - MV has audio recording enabled.
- Solid Amber - MV is not able to connect to the Dashboard.



6. Aim the lens.  Look through the camera on the Meraki Dashboard to fine-tune the picture. The camera sensor and lens unit can be physically tilted through 65 degrees, rotated through a range of +/-90 degrees, and panned through 354 degrees. The image can only be rotated by 180 degrees in software, and no other adjustments can be made. Zoom and focus can be adjusted remotely and can not be adjusted physically on the camera. For more information on zooming, refer to the adjusting the Field of View article.

Do not adjust or remove the rubber lens gasket or the protective lens guard.