MV2 Installation Guide

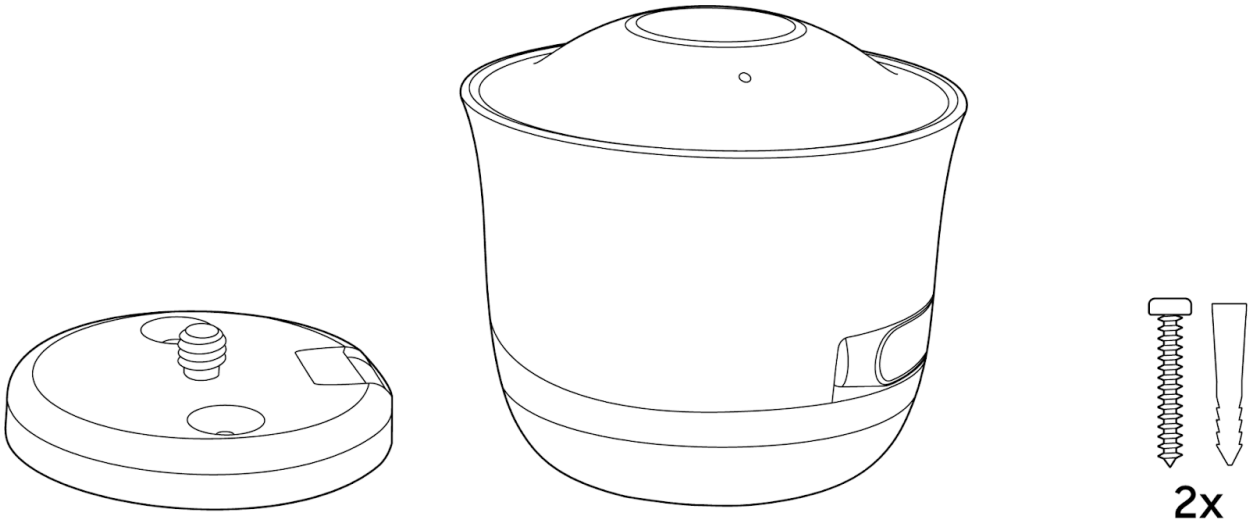
Overview

The Cisco Meraki MV2, a member of the second generation MV smart camera family, is a flex camera that is exceptionally simple to deploy and configure due to its compact yet flexible form-factor and integration into the Meraki dashboard. The MV family eliminates the complex and costly servers and video recorders required by traditional solutions which removes the limitations typically placed on video surveillance deployments.

Box Contents

One camera gift box contains:

- 1x Camera-L hardware
- 1x Magnetic Screw Mount with ¼" tripod screw
- 2x M3.5 Screws with wall anchors



Powering MV2

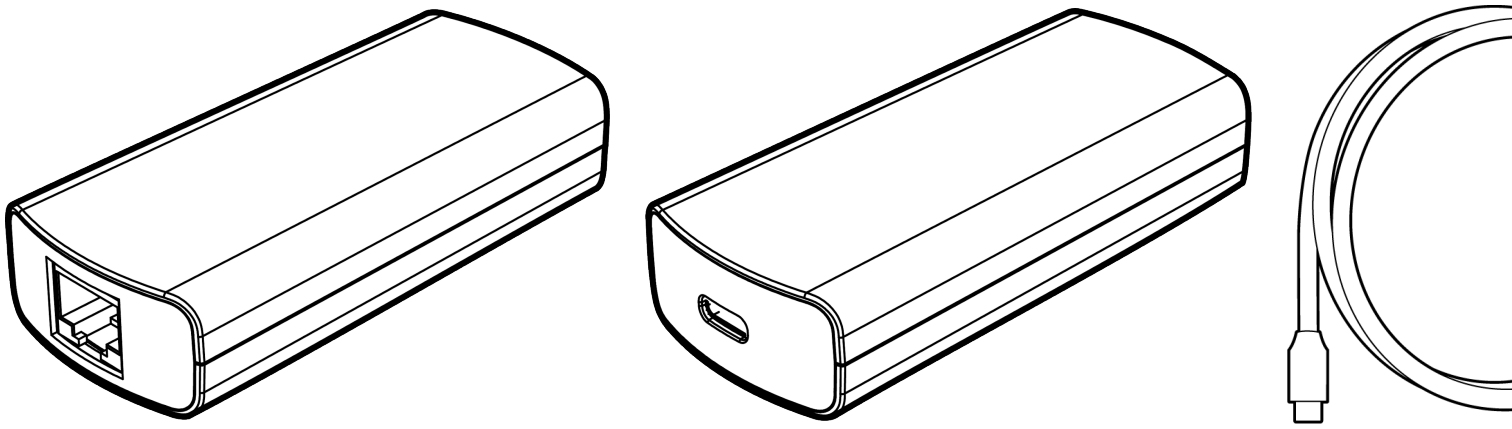
The MV2 is the first Meraki camera to come with only a USB-C port. The camera must be used with one of the two following accessories:

Note: These are not included in the box. They must be ordered separately

Ethernet to USB-C Dongle (Product Name: MA-PWR-ETH)

One ethernet dongle lunch bag

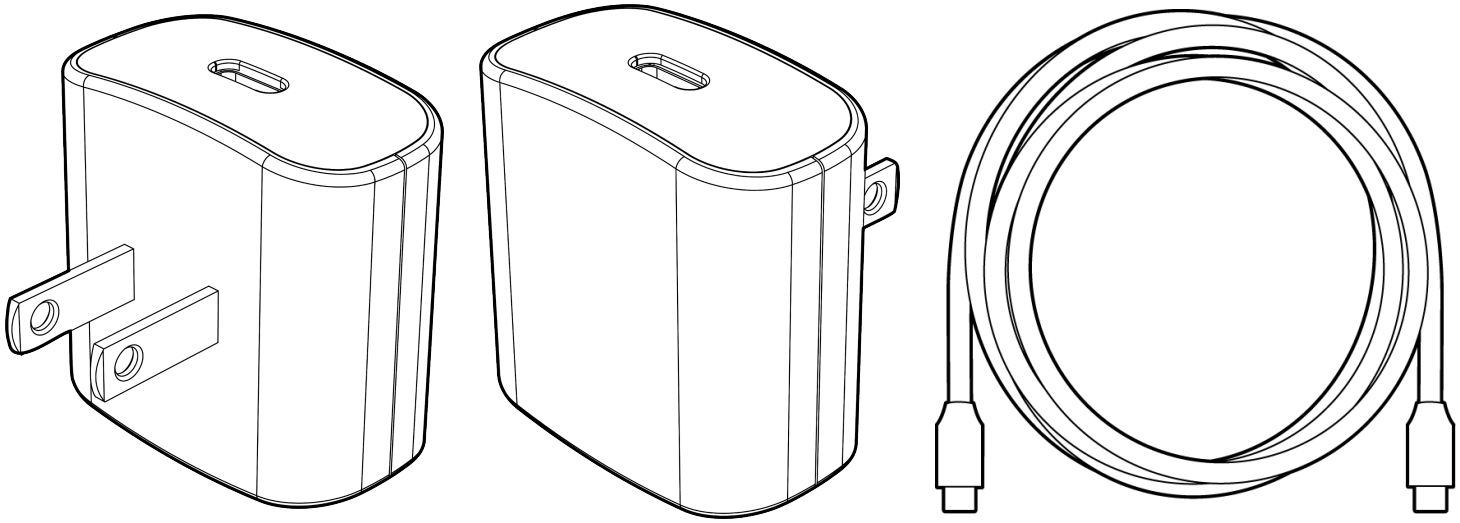
- 1x ethernet dongle
- 1x 1m USB-C cable
- 2x Rectangular VHB tape strips



AC Power Adapter (Product Name: MA-PWR-USB-XX)

1x power adapter lunch bag

- 1x power adapter
- 1x 3m USB-C cable
- 1x Cable Tie



Preparing Dashboard

The following is a brief overview of the steps required to add an MV2 to your network.

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 your camera is now listed under Cameras > Monitor > Cameras.

The device can also be added to your network using the Meraki Mobile App

Firewall and Uplink Network setup

If a firewall is in place, it must allow outgoing connections on particular ports to particular IP addresses. The most current list of outbound ports and IP addresses for your particular organization can be found here.

DNS Configuration

Each MV2 will generate a unique domain name to allow 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.

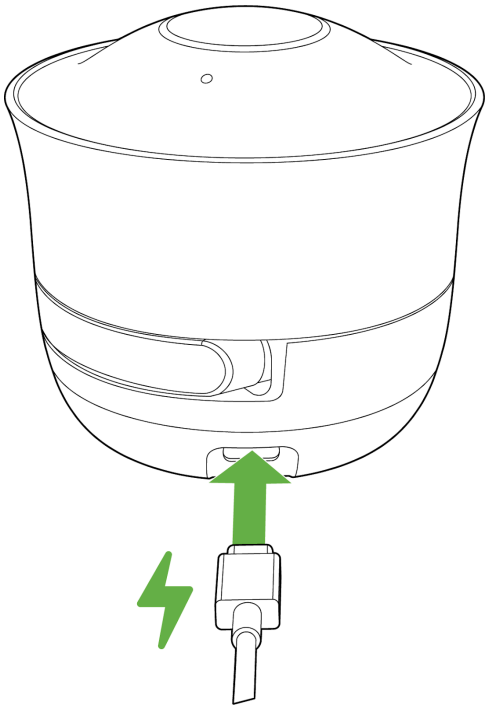
If utilizing an on site DNS server, please whitelist *.devices.meraki.direct or configure a conditional forwarder so that local domains are not appended to *.devices.meraki.direct and that these domain requests are forwarded to Google public DNS.

Assign Wireless Info

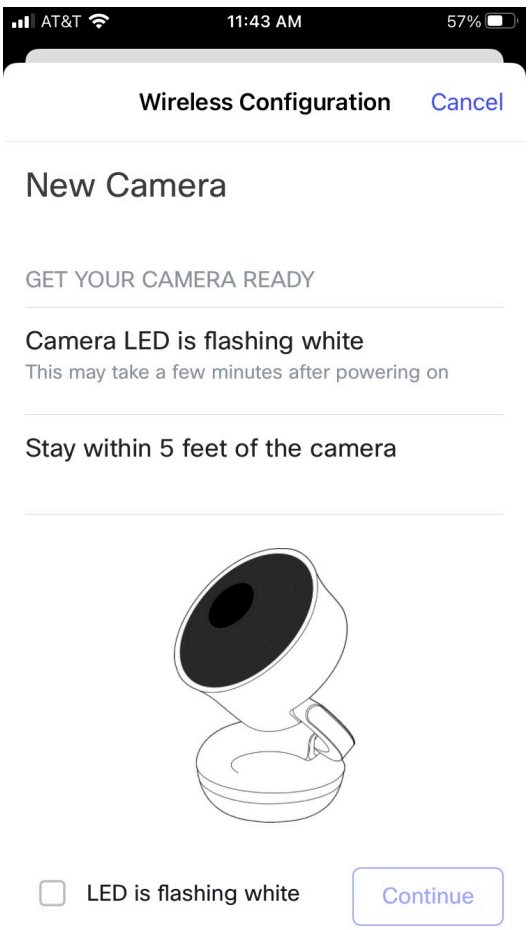
It is recommended to complete these steps before physically installing your MV2.

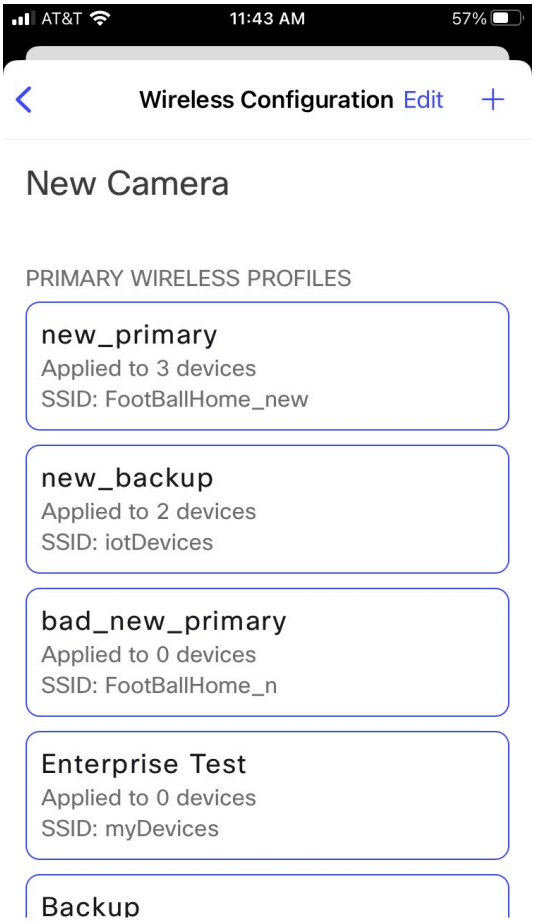
Use the Meraki Mobile app to share wireless info with your camera

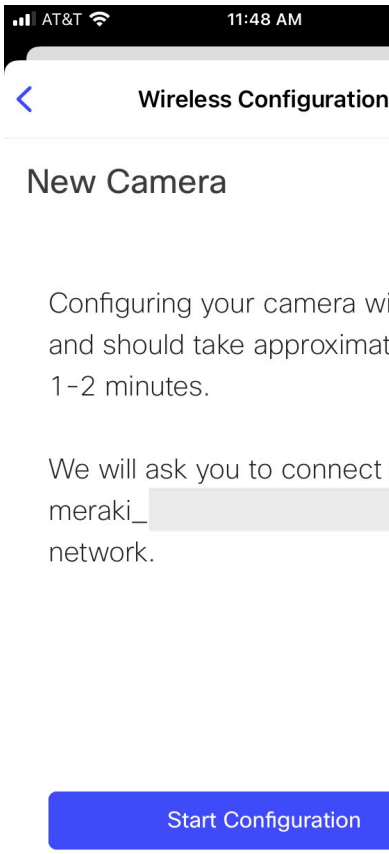
1. Power on your camera with the AC Power adapter



2. On the Meraki Mobile App, select the camera to onboard. Tap configure wirelessly to onboard and follow the steps in the app







For more information, please refer to Wireless Onboarding on MV2

Assigning IP Addresses

At this time, the MV2 does not support static IP assignment. MV2 units must be added to a subnet that uses DHCP and has available DHCP addresses to operate correctly.

Install Instructions

MV2 has a wide range of options for indoor installs. These include wall/ceiling mounting as well as leaving it on top of a flat-surface such as a table or a rack.

The camera out of the box comes with a protective lens cap. Do not remove this lens cover before installation is complete.

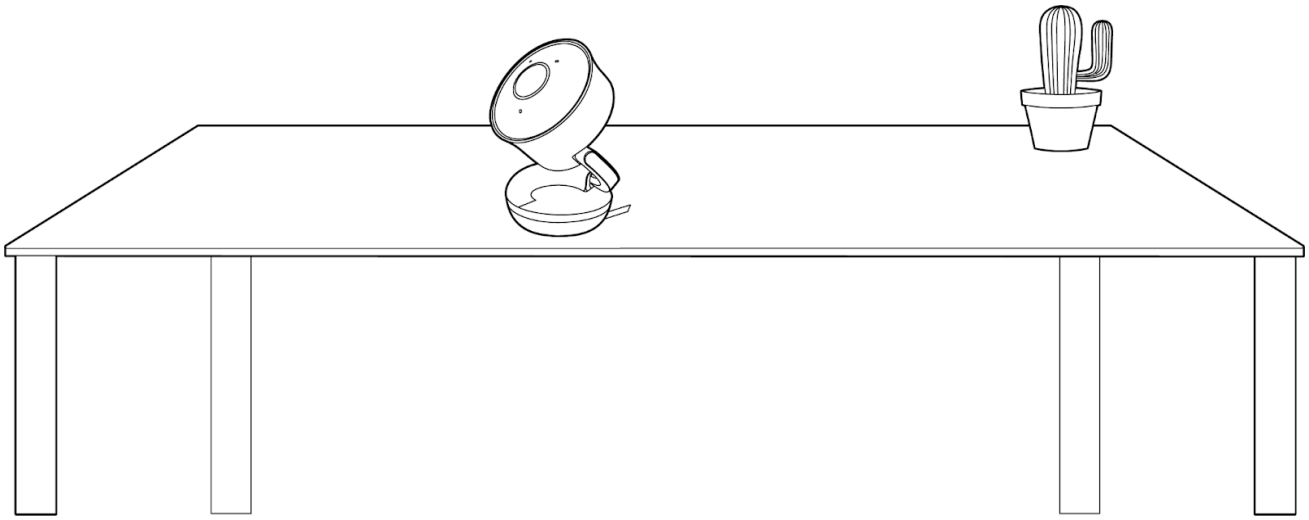
MV2 is an indoor only camera and should not be installed outside

Placement Guidelines

There are three ways in which you can place your MV2. These include wall/ceiling mounting as well as leaving it on top of a flat-surface such as a table or a rack

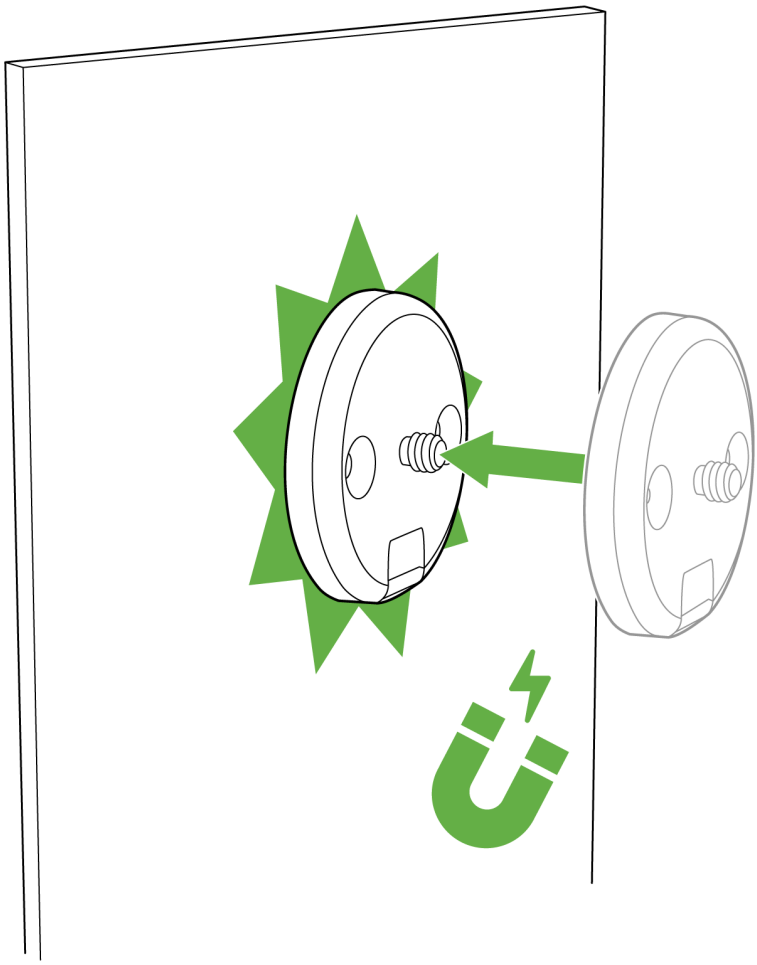
Table-top / Flat surfaces

The rubber base of the camera is designed to provide a firm grip which in turns avoids any sliding.



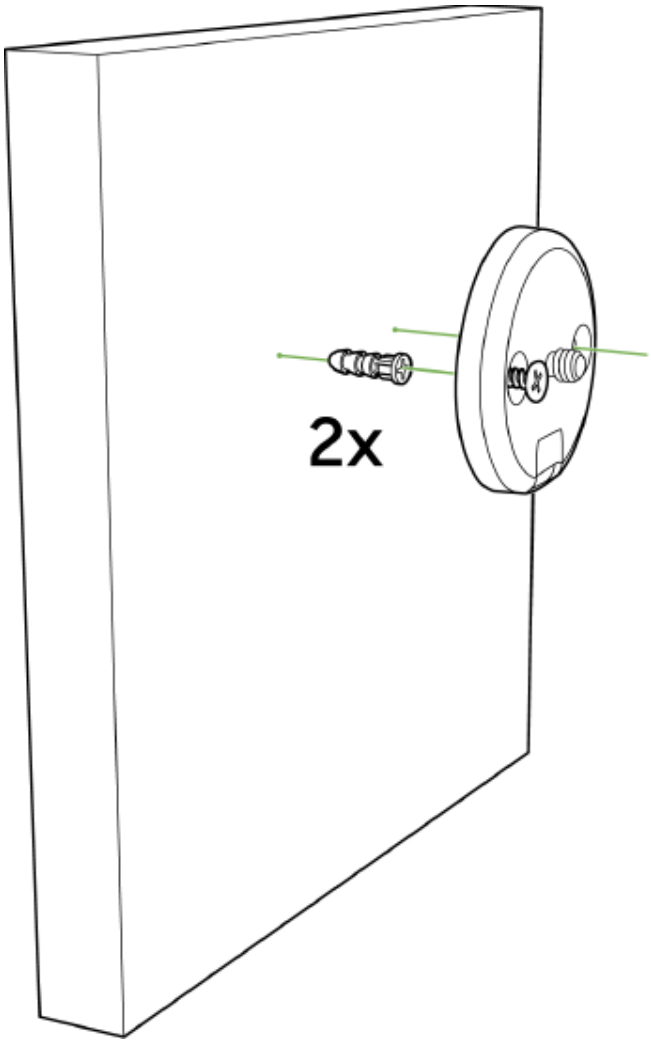
Magnetic Mount

The base for the Tripod Screw mount has a magnet that can “stick” to metallic surface such as network racks or bookshelve



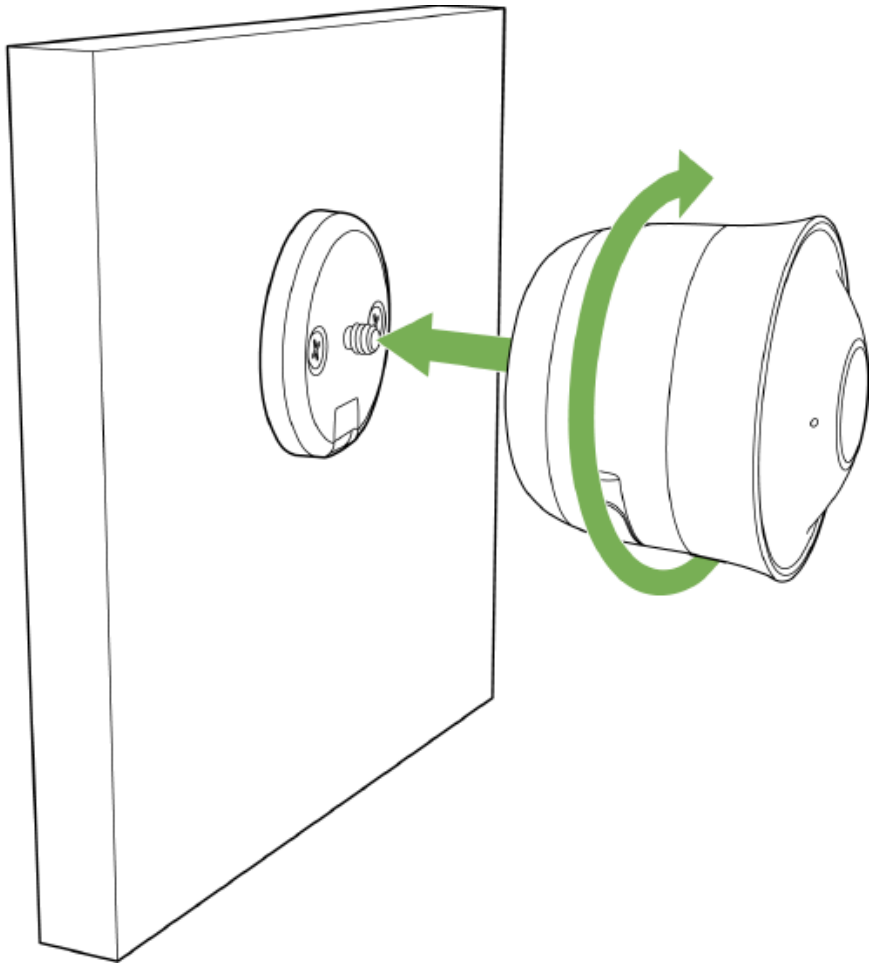
Wall/Ceiling Mount

Just as the magnetic mount, the Tripod Screw mount can be installed using the wall anchors and the M3.5 screws.

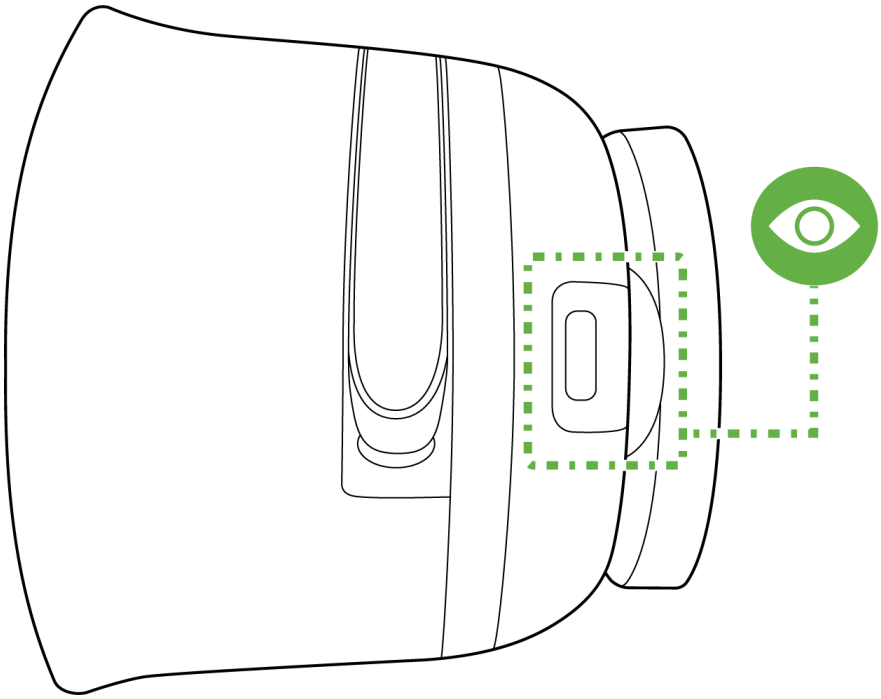


Mount the camera

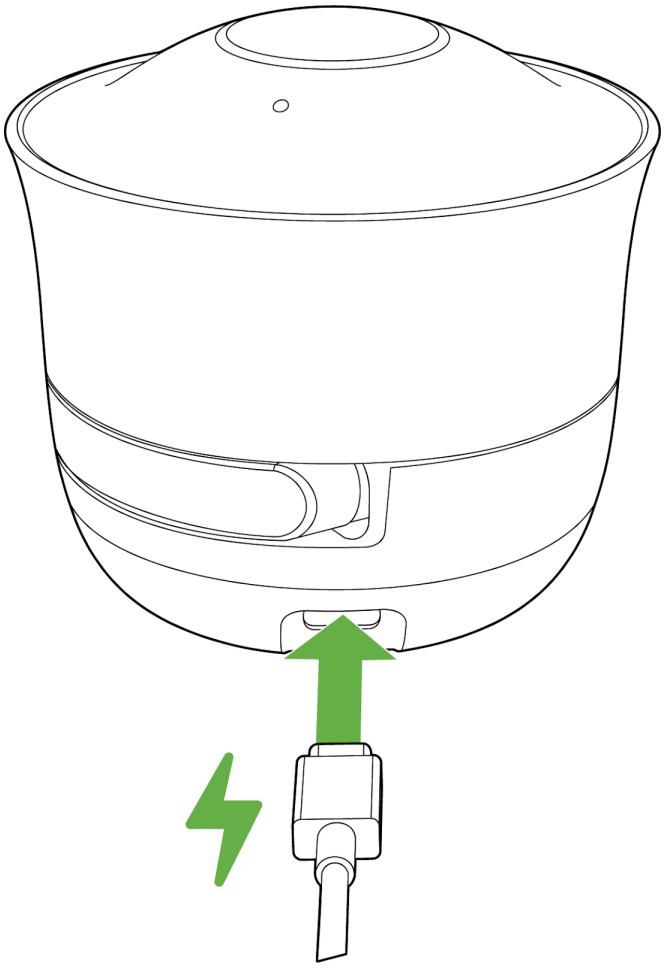
For magnetic and wall/ceiling installs, mount the camera using the ¼” tripod screw on the base mount.



The notch on the mount should line up with USB-C slot on the camera after its mounted



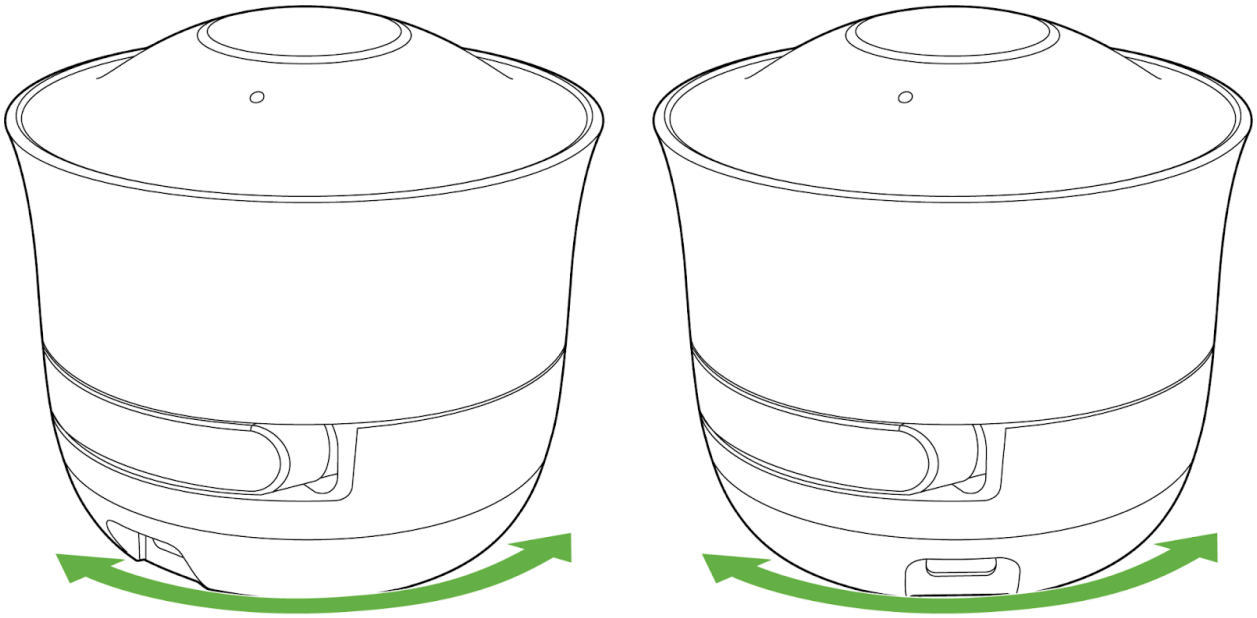
Power on the camera after the installation either using the AC Power Adapter or the Ethernet to USB Dongle



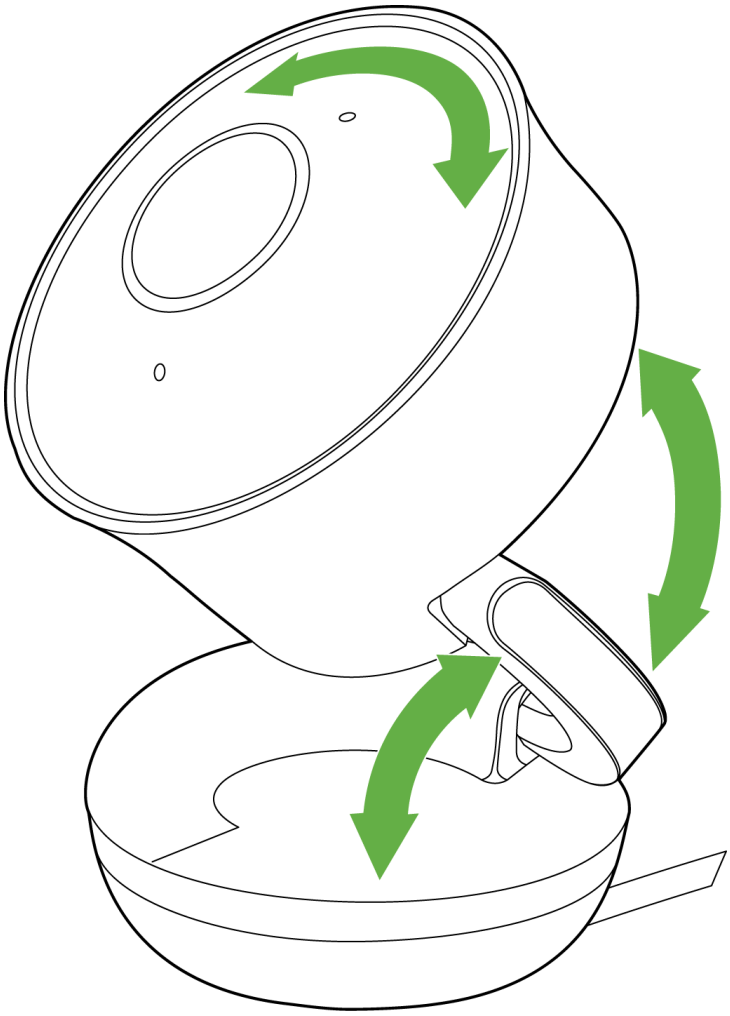
Pointing your camera

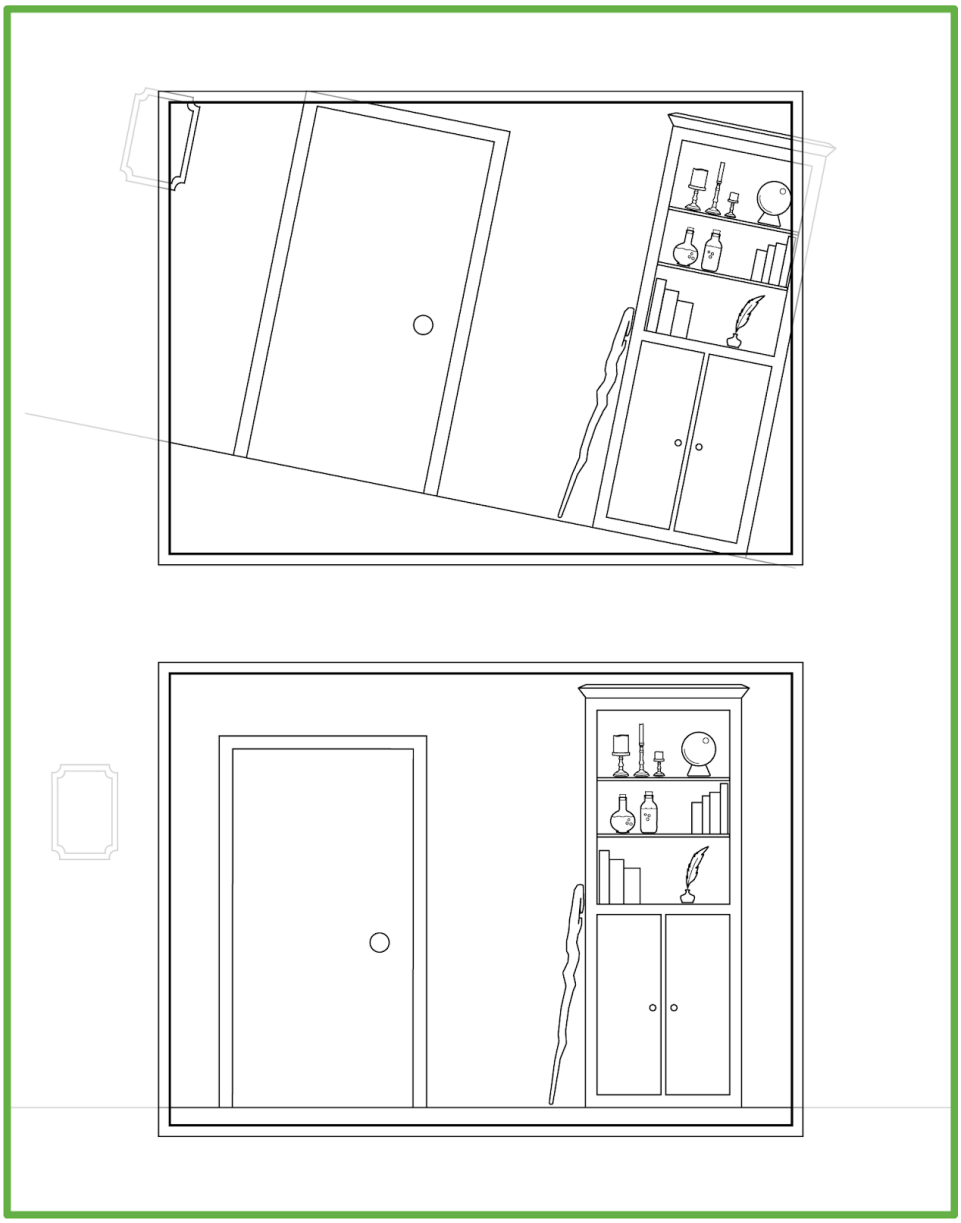
MV2 allows a wide-range of movements to adjust and point your installed camera to the desired Field-of-View

1. Rotate the camera about the base to adjust the USB-C cable location



2. Pull the camera out about the hinge and rotate about the top joint. Remove the lens cover and rotate the lens to further adjust the FoV

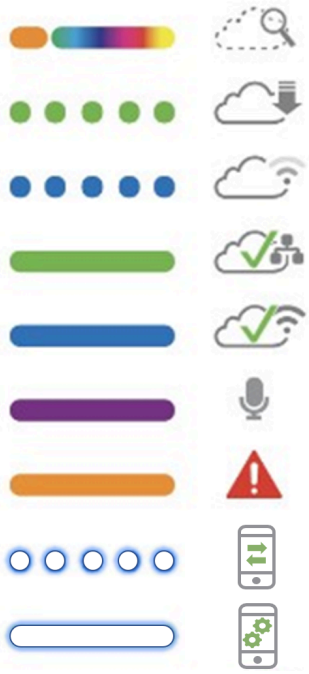




3. Remove the plastic film covering the lens

LED Indicator

Your MV2 is equipped with a LED light on the front of the unit to convey information about system functionality and performance:



Rainbow - MV is initializing or looking for upstream network connectivity.

Flashing Green - MV is formatting its storage and/or upgrading its firmware.

Flashing Blue - MV is attempting to connect to a nearby access point.

Solid Green - MV is online with an active wired connection.

Solid Blue - MV is online with an active wireless connection.

Solid Purple - MV is recording audio.

Solid Amber - MV cannot connect to Dashboard or encountered an error.

Blinking White - Camera is ready to be wireless onboarded through the Meraki Mobile App.
Solid White - Camera being configured from the app.