

DATASHEET

# MV2 Cloud-Managed Smart Cameras

## Overview

The Meraki MV2, part of the MV smart camera family, brings physical security and advanced analytics together in a flexible, compact form factor. Easy to install and simple to use, MV2 provides rich analytics and smart security for a variety of indoor applications.



## MV2: simple, smart, and secure

MV2 brings enterprise-grade physical security almost anywhere. A unique hinge, flexible mounting options, wireless capability, USB-C power, and a mobile onboarding flow enable a seamless, DIY installation experience. Onboard processing power and cloud management eliminate infrastructure and software requirements and simplify configuration and viewing.

MV2 makes it easy to stay on top of what's going on. Securely view video locally or remotely, in-browser or on an app, from virtually any device. Intelligent alerts keep you up-to-date on activity even when no one is watching. Adding the optional Cloud Archive license for cloud video storage gives you access to historical video so you can use smart search tools to quickly investigate events and export or share video clips.

MV2 uses machine-learning-based computer vision for real-time object detection, classification, and tracking of people with no heavy-duty servers or hardware required. This data can increase safety and provide useful insights that lay the foundation for more effective and efficient processes like journey pathing and safer working practices. These smart cameras enable physical security and business intelligence, all in a refreshingly simple package.

## Product highlights

- Easy install with flexible mounting options, adjustable hinge, and USB-C power
- Expansive coverage with a wide 103° horizontal field of view
- High-definition video with 4MP sensor and 1080P video resolution
- Simplified storage and access to historical data with Cloud Archive
- Insight with built-in motion analytics
- In-camera machine-learning capability for intelligent object detection
- Simple to use, no special software or browser plug-ins required
- All-in-the-box solution minimizes physical infrastructure
- Simplified management with Meraki cloud architecture
- Built-in, automatic security with secure boot and signed firmware backed by hardware security chip
- Secure video access and ensure privacy with role-based user accounts
- Flexible deployment options with integrated 802.11ac wireless
- Night vision with IR illumination up to 8 m (26 ft)

# MV2 specifications

## Camera

1/3 in 4MP (2688×1520) progressive CMOS image sensor

2.8 mm focal length fixed lens

f/2.0 aperture

Field of view:  
Horizontal 103°  
Vertical 76°  
Diagonal 134°

1/30 s to 1/32,000 s shutter speed

Minimum illumination 0.18 lux

Built-in IR illuminators, effective up to 8 m (26 ft)

## Video

1080p HD video recording (1920×1080) with H.264 encoding, up to 15 fps

Direct live streaming with no client software (native browser playback)

Stream video anywhere with automatic cloud proxy

Audio recording supported with built-in microphone

## Data and network security

Full-disk encryption (AES 256-bit)

Automatically purchased and provisioned TLS certificates (publicly signed)

Management encryption and two-factor authentication

WPA, WPA2-PSK, WPA2-Enterprise with 802.1X EAP-TTLS

TKIP and AES encryption

## Power

10 W via a USB-C power adapter (MA-PWR-USB-XX)

12.95 W maximum via 802.3af PoE (MA-PWR-ETH)

## Networking and wireless

Dual-band WLAN with supporting 2.4 GHz and 5 GHz

DSCP traffic marking

2.4 GHz 802.11b/g/n radio

5 GHz 802.11a/n/ac radio

Supported frequency bands (country-specific restrictions apply):

2.412-2.484 GHz

5.150-5.250 GHz (UNII-1)

5.250-5.350 GHz (UNII-2)

5.470-5.600, 5.660-5.725 GHz (UNII-2e)

5.725-5.825 GHz (UNII-3)

802.11ac and 802.11n capabilities

1×1 with one spatial stream

MU-MIMO support

20 and 40 MHz channels (802.11n)

20, 40, and 80 MHz channels (802.11ac)

Up to 256 QAM on both 2.4 GHz and 5 GHz bands

Integrated omni-directional antennas (4.4 dBi gain at 2.4 GHz, 6.3 dBi gain at 5 GHz)

2.4 GHz Bluetooth® Low Energy radio

## Environment

Temperature: 0 °C to 35 °C (32 °F to 95 °F)

## MV2 specifications

### Physical characteristics

Dimensions: 76 mm x 68-129 mm (diameter x height)

Weight 464 g

Fixed lens

USB-C jack

Multicolor, multifunction status LED

Reset button

### In the box

Quick-start and installation guide

MV camera hardware

Magnetic base plate with 1/4 in screw

Wall-mounting kit

### Ordering information

MV2-HW	Indoor flex camera
LIC-MV-XYR	Meraki MV Enterprise license (X = 1, 3, 5, 7 years)
MA-PWR-USB-XX*	Meraki AC power adapter for MV and MT (XX = US, EU, UK, or AU)
MA-PWR-ETH*	Meraki Ethernet adapter for MV and MT

Note: Either MA-PWR-USB-XX or MA-PWR-ETH is required to power MV2-HW

To learn more,  
visit [Meraki.com](https://www.meraki.com)