

MV52

Cloud-Managed Smart Cameras



Overview

The Meraki MV52, part of the MV smart camera family, brings physical security and advanced analytics together in a powerful, ultra-long-range telephoto bullet camera. The MV52 extends visibility and safety to challenging environments where distance and detail matter.

MV52: security and intelligence

MV52 has an industry-leading processor, 1TB of high-endurance local storage, and browser-based cloud management and viewing. This edge architecture minimizes physical infrastructure and software requirements, enabling faster, easier deployments and greater scalability.

With the ability to mount to walls, ceilings, or poles, and a 360-degree rotating flexible ball joint, MV52 lets you get the angle you need, anywhere. Wireless functionality and a built-in power input option make it possible to install in even the most challenging environments beyond the reach of normal Ethernet.

MV52 combines a 12°-37° field of view with 4K video resolution. This allows for high detail, even with long-distance deployments like parking lots or perimeter monitoring. It's also useful for situations that require license plate capture or subject identification.

Using machine-learning-based computer vision, MV52 can do real-time object detection, classification, and tracking of people and vehicles to increase safety and provide useful insights into activity. These smart cameras enable physical security and business intelligence, all in a refreshingly simple package.

Product highlights

- Simple to use; no special software or browser plug-ins required
- 1TB of high-endurance on-camera storage
- All-in-the-box solution minimizes physical infrastructure requirements
- Simplified management with Meraki cloud architecture
- Long-range viewing with bullet camera form factor and 12-37° horizontal FoV
- IK10+ and IP67 rated for demanding environments
- Built-in analytics like Motion Search, Motion Recap, and Motion Heatmaps
- Flexible deployment options with integrated 5 GHz 802.11ac wireless
- Night vision with IR illumination up to 50m (164ft)
- See more details with the 8.4MP sensor and up to 4K video resolution
- In-camera machine-learning capability allows for intelligent object detection
- Get built-in automatic security with secure boot and signed firmware, backed by a hardware security chip
- Secure video access and ensure privacy with role-based user accounts

MV52 specifications

Camera

1/1.8" 8.4MP (3840x2160) progressive CMOS image sensor

1TB high endurance solid state storage

12-40mm focal length varifocal lens

f/2.3-16 aperture

Field of view: Horizontal 12°-37°, Vertical 7°-22°

1/30s to 1/1000s shutter speed

Sub-lux minimum operation

Built-in IR illuminators, effective up to 50m (164ft)

Video

4K (8MP) video recording (3840x2160) with H.264 encoding, up to 15fps

Cloud augmented edge storage (locally stored video with metadata in the cloud)

Optimized retention settings (scheduling and motion-based) for variable retention

High dynamic range (HDR)¹

Stream video anywhere with automatic cloud proxy

Direct live streaming with no client software (native browser playback)²

¹ At frame rates 15fps and below only

² Browser support for H.264 decoding required

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

Ratings

IK10+ vandal-resistance

IP67 weather-proofing

Networking and wireless

1x 10/100/1000 Base-T Ethernet (RJ45)

DSCP traffic marking

Supported frequency bands (country-specific restrictions apply):

- 5 GHz 802.11a/n/ac radio
- 5- 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)

1x1 with one spatial stream

MU-MIMO support
- 20, 40, and 80 MHz channels (802.11ac)

Up to 256 QAM on 5 GHz bands

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

Power

PoE+ required for operation (max 25.5W consumption)

12VDC power input option

Dynamic power switching with PoE priority

Environment

Temperature: -40°C - 50°C (-40°F - 122°F)³

³Operation under 0°C will make use of the internal heater

MV52 specifications

Physical characteristics

Weight 1.5kg

Dimensions: 90mm x 145mm (diameter x body length, total length of 245mm)

Varifocal lens (up to 3x optical zoom)

RJ45 Ethernet connector socket on cable tail

External microphone input, not amplified on cable tail

12VDC input on cable tail

Ball-joint mechanism for tightening, with two screws on base

Reset button under hood

Multicolor, multifunctional status LED

Warranty

5 year hardware warranty with advanced replacement

Ordering information

MV52-HW: 1TB Varifocal Outdoor Bullet Camera

LIC-MV-XYR: Meraki MV Enterprise License (X = 1, 3, 5, 7 years)

MA-INJ-4-XX: Meraki 802.3at Power over Ethernet injector (XX = US, EU, UK, or AU)

In the box

Quick start & installation guide

MV camera hardware

Wall mounting kit

Mounting options

Wall/ceiling

Junction boxes (3.5" circular by default)

Pole mounting available through accessory (MA-MNT-MV-21)
