

OVERVIEW

MV12, the second generation of the MV family, brings powerful, advanced analytics capabilities to the Meraki security camera offering in a sleek and compact new form factor. With a more powerful processor and all the architectural benefits of the first generation, MV12 represents a shift from cameras simply ensuring physical safety and security, to providing business intelligence as well.

MV12: BEYOND JUST SECURITY

As with the entire MV lineup, MV12 features an innovative architecture which places high-endurance storage locally on the camera and removes the network video recorder (NVR) from the equation. Not only does this drastically simplify both installation and scaling, but it also eliminates a major network security vulnerability in the IT infrastructure.

Features like LLDP insights, offline device alerting, and built-in remote troubleshooting tools reduce time to resolution and free up personnel to make IT improvements, providing added business value. And, because MV is managed through the browser-based Meraki dashboard and operates using a licensing model, there's no need to purchase, download, and maintain any additional software. Management through the Meraki dashboard ensures firmware updates will continually roll out over the lifespan of the product, meaning its value will only increase over time.

MV12 comes in three models to support a wide variety of deployments:

- MV12W, with a wide field of view (FOV), provides context footage
- MV12N, with a narrow FOV aids in identifying subjects
- MV12WE offers reduced storage and a wide FOV at a more affordable price

Featuring an industry-leading processor, these three camera models are not only capable of providing high definition (1080p) video, but they also allow for on-board analytics capabilities that previously required additional software and heavy-duty hardware. Harnessing the power of computer vision and machine learning, this camera line will learn to identify object categories, like people. Over time, MV12 will quantify how many people walked by a new t-shirt display in a retail location or lined up at a bus stop, better quantifying customer behavior patterns. And the best part is that it will only get smarter over time.

Product Highlights

- · Meraki dashboard simplifies operation
- · Machine learning capability for intelligent object detection
- Cloud-augmented edge storage minimizes physical infrastructure
- Suitable for deployments of all sizes: 1 camera or 10,000+
- Intelligent motion indexing with search engine

- · Built-in video analytics tools
- · Secure encrypted control architecture
- · No special software or browser plugins required
- · Granular user access controls



CUTTING EDGE ARCHITECTURE

Meraki's expertise in distributed computing has come to the security camera world. With cloud-augmented edge storage, MV cameras provide ground breaking ease of deployment, configuration, and operation. Completely eliminating the Network Video Recorder (NVR) not only reduces equipment CAPEX, but the simplified architecture also decreases OPEX costs.

Each MV camera comes with integrated, ultra reliable, industrial-grade storage. This cutting edge technology allows the system to efficiently scale to any size because the storage expands with the addition of each camera. Plus, administrators can rest easy knowing that even if the network connection cuts out, the cameras will continue to record footage.

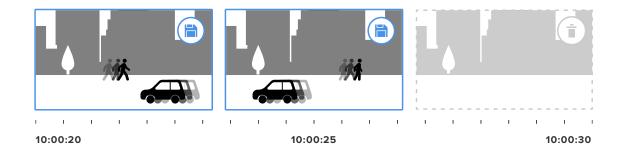
OPTIMIZED RETENTION

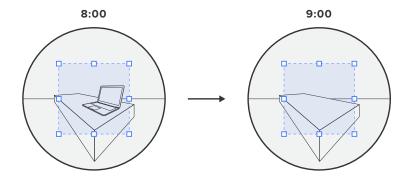
MV takes a unique approach to handling motion data by analyzing video on the camera itself, but indexing motion in the cloud. This hybrid motion-based retention strategy plus scheduled recording give users the ability to define the video retention method that works best for every deployment.

The motion-based retention tool allows users to pick the video bit rate and frame rate to find the perfect balance between storage length and image quality. All cameras retain continuous footage as a safety net for the last 72 hours before intelligently trimming stored video that contains no motion.

Determine when cameras are recording, and when they're not, with scheduled recording. Create schedule templates for groups of cameras and store only what's needed, nothing more. Turn off recording altogether and only view live footage for selective privacy.

Best of all, the dashboard provides a real-time retention estimate for each camera, removing the guesswork.





ISOLATE EVENTS, INTELLIGENTLY

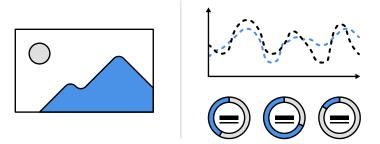
Meraki MV cameras use intelligent motion search to quickly find important segments of video amongst hours of recordings. Optimized to eliminate noise and false positives, this allows users to retrospectively zero-in on relevant events with minimal effort.

MV's motion indexing offers an intuitive search interface. Select the elements of the scene that are of interest and dashboard will retrieve all of the activity that occurred in that area. Laptop go missing? Drag the mouse over where it was last seen and quickly find out when it happened and who was responsible.

ANALYTICS, BUILT RIGHT IN

With an industry-leading processor onboard every MV12 camera, advanced analytics, including computer vision and machine learning are now easy, scalable, and cost effective to implement. MV12 can detect what's a person—and what's not—to enable features like people counting over time. You'll gain valuable insights into office foot traffic and your customers' behavior patterns with a single security camera solution—no servers, special software, or dedicated cameras required.

Motion heat maps provide an overview of relative motion in a given area hour-by-hour or day-by-day, helping you to paint a picture of general motion trends. Start expecting more from your cameras than just security.









EASY TO ACCESS, EASY TO CONTROL

There is often a need to allow different users access but with tailored controls appropriate for their particular roles. For example, a receptionist needing to see who is at the front door probably does not need full camera configuration privileges.

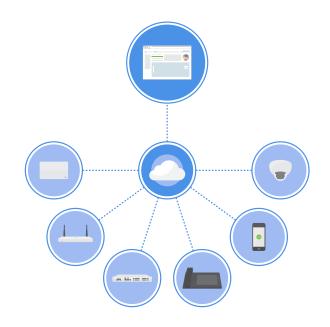
The Meraki dashboard has a set of granular controls for defining what a user can or cannot do. Prevent security staff from changing network settings, limit views to only selected cameras, or restrict the export of video: you decide what is possible.

With the Meraki cloud authentication architecture, these controls scale for any organization and support Security Assertion Markup Language (SAML) integration.

SIMPLY CLOUD-MANAGED

Meraki's innovative GUI-based dashboard management tool has revolutionized networks around the world, and brings the same benefits to networked video surveillance. Zero-touch configuration, remote troubleshooting, and the ability to manage distributed sites through a single pane of glass eliminate many of the headaches security administrators have dealt with for decades. Best of all, dashboard functionality is built into every Meraki product, meaning additional video management software (VMS) is now a thing of the past.

Additionally, features like the powerful drag-and-drop video wall help to streamline remote device management and monitoring — whether cameras are deployed at one site, or across the globe.



SECURE AND ALWAYS UP-TO-DATE

Centralized cloud management offers one of the most secure platforms available for camera operation. All access to the camera is encrypted with a public key infrastructure (PKI) that includes individual camera certificates. Integrated two-factor authentication provides strong access controls. Local video is also encrypted by default and adds a final layer of security that can't be turned off.

All software updates are managed automatically for the delivery of new features and to enable rapid security updates. Scheduled maintenance windows ensure the MV family continues to address users' needs with the delivery of new features as part of the all-inclusive licensed service.

Camera Specifications

Camera

1/3" 4MP (2688x1520) progressive CMOS image sensor

128GB high endurance solid state storage (MV12WE)

256GB high endurance solid state storage (MV12N and MV12W)

2.8mm focal length fixed lens (MV12W and MV12WE)

3.8mm focal length fixed lens (MV12N)

f/1.8 aperture

Field of view:

Horizontal 114° (MV12W and MV12WE)

Horizontal 73° (MV12N)

Vertical 61° (MV12W and MV12WE)

Vertical 44° (MV12N)

Diagonal 132° (MV12W and MV12WE)

Diagonal 86° (MV12N)

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

Minimum illumination 0.18 Lux (standard recording) and 0.01 Lux (night mode)

Built-in IR illuminators, effective up to 15m (49ft)

Video

1080p HD video recording (1920x1080) with H.264 encoding, up to 20fps

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

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

Up to 40 days of video storage per camera*

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

Stream video anywhere with autotmatic cloud proxy

High dynamic range (HDR)

Data Security

Full disk encryption (AES 256-bit)

Automatically purchased and provisioned TLS certificates (publicly-signed)

Management encryption and two-factor authentication

Networking

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

Dual band WLAN with antenna diversity supporting 2.4GHz and 5GHz

802.11 a/b/g/n/ac

DSCP traffic marking

Features

Cloud managed with complete integration into the Meraki dashboard

Plug and play deployment with self-configuration

Dynamic day-to-night transition with IR illumination

Noise optimized motion indexing engine with historical search

Shared video wall with individual layouts supporting multiple cameras

Selective export capability with cloud proxy (with watermarked timestamps)

Highly granular view, review, and export user permissions with SAML integration

Motion heat maps for relative hourly or day-by-day motion overview

Motion alerts

Power

Power consumption 12.95W maximum via 802.3af PoE

Environment

Starting temperature: 0°C - 40°C (32°F - 104°F)

Working temperature: 0°C - 40°C (32°F - 104°F)

In the box

Quick start & installation guide

MV camera hardware

Wall mounting kit

Physical characterisitcs

Dimensions 106mm x 74mm (diameter x height)

Fixed lens

Weight 286g

Female RJ45 Ethernet connector

Multicolor, multifunction status LED

Reset button

Warranty

converter

Warranty 3 year hardware warranty with advanced replacement

Ordering Information

MV12N-HW: 256GB Narrow Angle Mini Dome Camera

MV12W-HW: 256GB Wide Angle Mini Dome Camera

MV12WE-HW: 128GB Wide Angle Mini Dome Camera

LIC-MV-XYR: Meraki MV Enterprise License (X = 1, 3, 5, 7, 10 years)

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

MA-PWR-MV-LV: Low voltage 12VDC/24VAC input PoE injector for MV cameras (coax

Note: Each Meraki camera requires a license to operate

- * Storage duration dependent on encoding settings and camera storage model.
- ** Browser support for H.264 decoding required.