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MV93 Cloud-Managed Smart Camera

Overview

The Meraki MV93, part of the third-generation MV smart camera family, combines physical security and advanced analytics in a fisheye form factor. Easy to install and with an 360° field of view (FoV), MV93 provides complete visibility and intelligent security for a variety of outdoor applications.

Security that tells a complete story

With up to 2880×2880 video resolution and 360-degree views, MV93 captures the full picture, providing broad context and clear detail when needed. This panoramic overview increases situation awareness, making surveillance more efficient.

Compatible with a variety of mounting accessories, outdoor-rated MV93 series cameras can be installed in a variety of deployment scenarios, so you can see around every corner. The 360° field of view and IR illumination make it ideal for improving safety and security for parking lots, warehouses, and other open spaces, even in low light.

Using machine learning-based computer vision, MV93 cameras can perform real-time object detection, classification, and real-time object detection and tracking, as well as classification, providing useful insights into activity. This allows organizations to more efficiently monitor activity and trends to improve security or create more efficient processes. An intelligent, all-in-one package, these smart cameras deliver powerful business intelligence without compromising physical security.

Product highlights

- 360° fisheye lens camera

- Compact form factor with 180° horizontal and vertical FoV

- Large level of detail with up to 2880×2880 video resolution

- Night vision with IR illumination up to 20 m/66 ft

- IK10+ and IP67 rated for deployment in more demanding environments

- Intelligent motion indexing with search engine

- Built-in analytics like motion search, motion recap, and motion heatmaps

- Machine learning capability for intelligent object detection

- Role-based user accounts provide secure video access and ensure privacy

- Cloud-augmented edge storage for minimal physical infrastructure

- Built-in automatic security with secure boot and signed firmware, backed by a hardware security chip

- Suitable for deployments of all sizes, 1-10,000+ cameras

MV93 specifications

Camera

1/2.3" 12.4MP (4072×3046) progressive CMOS image sensor

High-performance fisheye lens

256GB high-endurance solid-state storage (MV93)

1TB high-endurance solid-state storage (MV93X)

1.6 mm focal length

f/2.0 aperture

Field of view: horizontal 180°, vertical 180°

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

Auto day/night mode switching capable

Built-in IR illuminators, effective up to 20 m (66 ft)

Heating elements

Video

8MP video recording (2880×2880)
with H.264 encoding, up to 15fps (MV93X)

4.2MP (2112×2112) 360° overview
with H.264 encoding, up to 24fps

1MP (1080×1080) 360° overview
with H.264 encoding, up to 24fps

High dynamic range (HDR)

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

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

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

Stream video anywhere with automatic cloud proxy

Audio recording supported with three (3) built-in microphones

Networking and wireless

1× 10/100/1000BASE-T Ethernet (RJ45)

DSCP traffic marking

Supported frequency bands (country-specific restrictions apply):

2.4 GHz 802.11b/g/n radio	2.412 - 2.484 GHz
5 GHz 802.11a/n/ac radio	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)

1×1 with one spatial stream

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

Up to 256 QAM on 5 GHz band

Integrated omnidirectional antennas (6.3 dBi gain at 5 GHz)

Power

Power consumption 25.5W maximum via 802.3at PoE

Environment

Temperature: -40 °C to 50 °C (-40 °F to 122 °F)**

*Browser support for H.264 decoding required

** The internal heater will automatically turn on at lower temperatures to preserve normal camera operation.

MV93 specifications

Data and network security

Full disk encryption (AES 256-bit)

Automatically purchased and provisioned TLS certificates (publicly signed)

Management encryption and two-factor authentication

Wireless security:	WPA, WPA2-PSK, WPA2-Enterprise with 802.1X EAP-TTLS TKIP and AES encryption

Physical characteristics

Dimension: 137.68 mm x 67.9 mm (diameter x height)

Weight: 1,050 grams

Fisheye lens

Female RJ45 Ethernet connector

Multicolor, multifunction status LED

External microphone switch

Reset button

Warranty

Five-year hardware warranty with advanced replacement

Ordering information

Hardware

MV93-HW: 360° fisheye lens outdoor camera with 256GB storage

MV93X-HW: 360° fisheye lens outdoor camera with 1TB storage

Licensing

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

Accessories

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

MA-MNT-MV-18: Meraki mounting plate replacement kit for MV third-generation camera

MA-MNT-MV-28: Meraki pole mount for MV third-generation camera

MA-MNT-MV-38: Meraki wall-mount L-bracket for MV third-generation camera

MA-MNT-MV-48: Meraki wall-mount arm bracket for MV third-generation camera

MA-MNT-MV-58: Meraki conduit back box for MV third-generation camera

MA-MNT-MV-68: Meraki T-rail adapter for MV third-generation camera

In the box

Quick-start and installation guide

MV camera hardware

Wall-mounting kit

Notes:

- Each Meraki camera requires a license to operate

To learn more, visit Meraki.com