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DATASHEET

MV72 Cloud-Managed Smart Camera

Overview

The Meraki MV72 series, part of the MV smart camera family, brings physical security and advanced analytics together in a dome form factor suitable for outdoor and demanding deployments. The powerful built-in processor—the same kind found in many of today's smartphones—and innovative architecture minimizes physical infrastructure as well as software requirements. MV72 not only ensures physical safety and security but provides business intelligence, all in a refreshingly simple package.

Bringing security and analytics to demanding environments

As with the rest of the MV lineup, the MV72 series places high-endurance storage locally on the camera, removing the network video recorder (NVR) and video management system (VMS) from the equation. Not only does this drastically simplify both installation and scaling, but it also eliminates a major network security vulnerability in IT infrastructure.

MV72 smart cameras are equipped with an industry-leading processor and have a 4MP sensor for recording in up to 1080p. The processor powers advanced analytics capabilities that previously required specialized software and heavy-duty hardware. Harnessing the power of machine learning for computer vision, MV72 smart cameras can do real-time object detection, classification, and tracking of people and vehicles. This compelling insight lays the foundation for more effective and efficient processes, journey pathing, and safe working practices.

MV72 series cameras are varifocal dome cameras, capable of up to 3x optical zoom. With IP67 and IK10+ rating, they are made to endure a variety of outdoor and other demanding environments. This, combined with an attractive industrial design and easy installation, makes it a natural fit for deployments ranging from school yards to manufacturing, and everything in between.

Product highlights

- Varifocal lens dome camera with 36-112° horizontal FoV
- IK10+ and IP67 rated for impact resistance and ingress protection
- Intelligent motion indexing with search engine
- Built-in motion analytics like motion search, motion recap, and motion heatmaps
- In-camera machine learning capability for intelligent object detection
- No special software or browser plug-ins required
- Cloud-augmented edge storage minimizes physical infrastructure
- Meraki dashboard simplifies operation
- Secure, encrypted control architecture and storage
- Secure boot and signed firmware backed by hardware security chip
- Granular user access controls
- Integrated 802.11ac wireless for easy upgrades from analog
- IR illumination up to 30 m or 98 ft
- Suitable for deployments of all sizes, 1-10,000+ cameras

MV72 specifications

Camera

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

256GB high-endurance solid-state storage (MV72)

512GB high-endurance solid-state storage (MV72X)

3-9 mm focal length

f/1.2-2.3 aperture

Field of view: horizontal 36-112°, vertical 20-57°, diagonal 42-138°

Lens adjustment range: tilt: 65°, rotation: +/- 90°, pan: 354°

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 30 m (98 ft)

Heating elements

Video

1080p HD video recording (1920×1080) with H.264 encoding up to 20fps (MV72)

4MP recording with H.264 encoding up to 15fps (MV72X)

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

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

Up to 90 days (MV72X) of 24/7 continuous video storage per camera*

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

Stream video anywhere with automatic cloud proxy

High dynamic range (HDR)

Audio recording supported with built-in microphone

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

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

*Storage duration dependent on encoding settings and camera storage model

**Browser support for H.264 decoding required

*** The MV72 internal heater will automatically turn on at lower temperatures to preserve normal camera operation

MV72 specifications

Power

Power consumption 25.5W maximum via 802.3at PoE

Environment

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

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
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Physical characteristics

Dimensions 165 mm x 103 mm (diameter x height)

Weight 1,247 g

Female RJ45 Ethernet connector

Multicolor, multifunction status LED

Reset button

External microphone switch

Reset button

Warranty

Five-year hardware warranty with advanced replacement

Ratings

IK10+ vandal resistance

IP67 weather-proofing

*** The MV72 internal heater will automatically turn on at lower temperatures to preserve normal camera operation

Ordering information

Hardware

MV72-HW: Varifocal outdoor dome camera with 256GB Storage

MV72X-HW: Varifocal outdoor dome camera with 512GB 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 12V DC/24 V AC input PoE injector for MV cameras

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 www.btigroup.com