

Overview

The Meraki MV23, part of the third generation of MV smart cameras, combines physical security and advanced analytics in a powerful, yet compact varifocal dome form factor. With an edge architecture that minimizes physical infrastructure and software requirements, MV23 enables faster, easier deployments and greater scalability.



Security in high definition

The ultra-high-performance MV23 series camera supports up to 4K resolution for high-definition video, delivering the level of detail needed to stay on top of what matters.

Compact and easy to install, MV23 series cameras are compatible with a variety of mounting accessories, delivering the right viewing angle wherever they are placed. MV23 series cameras are ideal for monitoring entrances and exits, as well as the general perimeter, from walls, ceilings, or even corner-mount locations.

Using machine-learning-based computer vision, MV23 cameras can perform real-time object detection, classification, and tracking of people and vehicles to increase safety and provide useful insights into activity. These smart cameras deliver powerful business intelligence without compromising physical security.

Product Highlights

- Varifocal lens dome camera
- Robust form factor with 36°-112° horizontal FoV
- More detailed information with up to 4K resolution
- Night vision with IR illumination up to 30 m (98 ft)
- Intelligent motion indexing with search engine
- Built-in analytics like motion search, motion recap, and motion heatmaps.
- Machine-learning capability for intelligent object detection
- Secure video access to ensure privacy with role-based user accounts
- 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, from 1-10,000+ cameras
- NDAA Compliant

MV23 camera specifications

Category	Specifications
Camera	1/2.8" 8.41MP (3854x2176) progressive CMOS image sensor • 512 GB high-endurance solid-state storage (MV23M) • 1 TB high-endurance solid-state storage (MV23X) • 3.0 - 9.0 mm focal length • f/1.2-2.9 aperture • Field of view: horizontal 36 - 112° • 1/30 second to 1/32,000 second shutter speed • Auto day/night capable • Built-in IR illuminators, effective up to 30 m (98 ft)

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Video

- 4K video recording (3840x2160) with H.264 Smart Codec encoding, up to 15fps (MV23X/MV23M Only)
- 4MP (2560 x 1440) with H.264 Smart Codec encoding, up to 24fps
- 1080p (1920x1080) with H.264 Smart Codec 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 four (4) built-in microphones

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Networking and

wireless

1x 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)
- 1x1 with one spatial stream
- 20, 40, and 80 MHz channels (802.11ac)
- Up to 256 QAM on 5 GHz band
- Integrated omnidirectional antennas

Power

Power consumption 15.4W maximum via 802.3af PoE

12VDC/24VAC Terminal power input

Environment

Temperature: 0°C to 45°C (32°F to 113°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

Physical

characteristics

Dimension: 148.54 mm x 95.80 mm (diameter x height)

- Weight: 840 grams
- Varifocal lens
- Female RJ45 Ethernet connector
- Multicolor, multifunction status LED
- External microphone switch
- Reset button

Warranty

Five-year hardware warranty with advanced replacement

Hardware

- MV23M-HW Varifocal lens indoor dome camera with 512GB storage
- MV23X-HW: Varifocal lens indoor dome camera with 1TB storage

Licensing

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

Accessories

- MA-MNT-MV-18: Mounting plate replacement kit
- MA-MNT-MV-28: Pole mount
- MA-MNT-MV-38: Wall-mount L-bracket

- MA-MNT-MV-48: Wall-mount arm bracket
- MA-MNT-MV-58: Conduit back box
- MA-MNT-MV-68: T-rail adapter
- MA-MNT-MV-88: Corner mount
- MA-MNT-MV-78: Telescopic mount
- MA-INJ-4: 802.3at power over Ethernet injector
- MA-PWR-MV-LV: Low voltage 12V DC/24V AC input
- PoE injector

In the box

- Quick-start and installation guide
- MV camera hardware
- Wall-mounting kit

Each Meraki camera requires a license to operate.