



## DATASHEET

# MV63 Cloud-Managed Smart Camera

## Overview

The Meraki MV63, part of the third generation of MV smart cameras, combines physical security and advanced analytics in a powerful, yet compact fixed-lens mini dome form factor. With an edge architecture that minimizes physical infrastructure and software requirements, MV63 enables faster, easier deployments and greater scalability.

## Security in high definition

The ultra-high-performance MV63 series camera supports up to 4K resolution for high-definition video, delivering the level of detail needed to stay on top of what matters. With IK10+ and IP67 ratings, plus IR illumination, the MV63 extends visibility and safety to outdoor and demanding environments.

Compact and easy to install, MV63 series cameras are compatible with a variety of mounting accessories, delivering the right viewing angle wherever they are placed. MV63 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, MV63 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

- Fixed lens mini-dome camera
- Compact form factor with 102° horizontal FoV
- More detailed information with up to 4K resolution
- Night vision with IR illumination up to 20 m (66 ft)
- IK10+ and IP67 for deployment in outdoor and 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
- 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

# MV63 camera specifications

## Camera

- 1/2.8" 8.41MP (3854×2176) progressive CMOS image sensor
- 256 GB high-endurance solid-state storage (MV63)
- 1 TB high-endurance solid-state storage (MV63X)
- 3.3 mm focal length
- f/2.0 aperture
- Field of view: horizontal 102°
- 1/30 second to 1/32,000 second shutter speed
- Auto day/night capable
- Built-in IR illuminators, effective up to 20 m (66 ft)
- Heating elements

## Video

- 4K video recording (3840×2160) with H.264 Smart Codec encoding, up to 15fps (MV63X)
- 4MP (2560 × 1440) with H.264 Smart Codec encoding, up to 24fps
- 1080p (1960×1080) 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

\*Browser support for H.264 decoding required

# Stream video anywhere with automatic cloud proxy

## 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, 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

PoE+ required for operation

Dynamic power switching with PoE priority

## 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

Dimension: 130.98 mm x 95 mm (diameter x height)

Weight: 920 grams

Fixed lens

Female RJ45 Ethernet connector

Multicolor, multifunction status LED

External microphone switch

Reset button

## Warranty

Warranty five-year hardware warranty with advanced replacement

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

## Ordering information

### Hardware

MV63-HW: Varifocal outdoor dome camera with 256GB storage
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MV63X-HW: Varifocal outdoor dome camera with 1TB storage
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### Licensing

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

MA-MNT-MV-18: Meraki mounting plate replacement kit for MV third-generation camera
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MA-MNT-MV-28: Meraki pole mount for MV third-generation camera
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MA-MNT-MV-38: Meraki wall-mount L-bracket for MV third-generation camera
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MA-MNT-MV-48: Meraki wall-mount arm bracket for MV third-generation camera
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MA-MNT-MV-58: Meraki conduit back box for MV third-generation camera
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MA-MNT-MV-68: Meraki T-rail adapter for MV third-generation camera
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MA-MNT-MV-78: Meraki telescoping pendant mount for MV third-generation camera
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### In the box

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

- Each Meraki camera requires a license to operate

To learn more,  
visit [Meraki.com](https://www.meraki.com)