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## MV13 Datasheet

This article outlines the MV13 datasheet, highlighting its 8 MP image quality, up to 4k video Resolution, 101.3° horizontal field of view, and compact dome design, ideal for monitoring with advanced analytics, low bandwidth needs, and enhanced security features for scalable deployments.

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## Overview

The Meraki MV13 offers 8MP image quality and 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, MV13 enables faster, easier deployments and greater scalability.



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## Security in High Definition

The ultra-high-performance MV13 camera supports up to 4K resolution for high-definition video and with IR illumination, delivering the level of detail needed to stay on top of what matters the most.

Compact and easy to install, MV13 camera boasts a new universal mounting place compatible with various mounting accessories, delivering the right viewing angle wherever they are placed. MV13 cameras are ideal for monitoring entrances, exits, and the general perimeter from walls, ceilings, or corner-mount locations.

Using machine-learning-based computer vision, MV13 cameras can perform real-time object detection, classification, and tracking of people and vehicles, as well as attribute detection and search to increase safety and provide valuable insights into activity. These smart cameras deliver powerful business intelligence without compromising physical

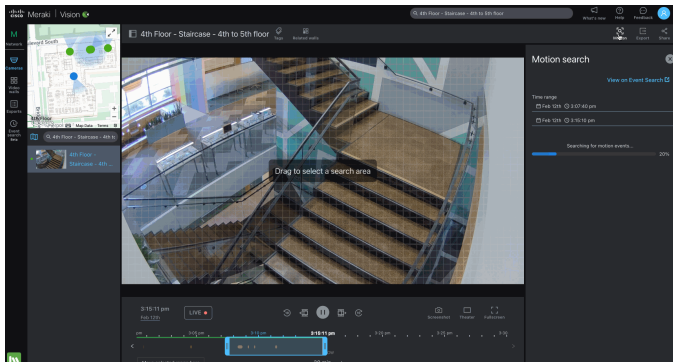
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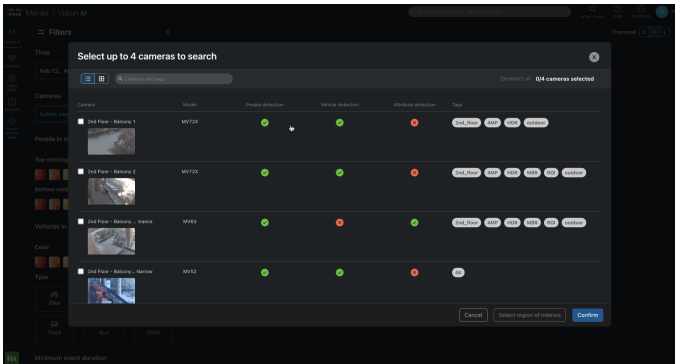
security.

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## Product Highlights

- Fixed lens mini-dome camera with 8MP Image Sensor
- Compact form factor with 101.3° horizontal FoV
- More detailed information with up to 4K resolution
- Low bandwidth Consumption for recording and streaming using Smartcodec encoding
- Guaranteed days of video with [Smart Retention](#)
- Night vision with IR illumination up to 15m (49 ft)
- Intelligent motion indexing with search engine
- Built-in search tools like motion search, motion recap, motion heatmaps and Attribute Search.
- Built-in analytics like Line Crossing, Area Occupancy, MV sense and Custom Computer-Vision capabilities
- Machine-learning capability for i
- Secure video access to ensure p
- Cloud-augmented edge storage
- Built-in automatic security with s hardware security chip
- Suitable for deployments of all s
- NDAA Compliant





[Motion Search](#), [Event Search](#) and [Attribute Search](#) are available on [the Meraki Vision Portal](#).

## MV13 Camera Specifications

| Category | Specifications                                                                                                                                                                                                                                                                                            |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Camera   | <ul style="list-style-type: none"> <li>• 1/2.8" 8.41MP (3854x2176) progressive CMOS backlit image sensor</li> <li>• 256 GB high-endurance solid-state storage (MV13)</li> <li>• 512 GB high-endurance solid-state storage (MV13M)</li> <li>• 3.3 mm focal length</li> </ul>                               |
|          | <ul style="list-style-type: none"> <li>• f/2.0 aperture</li> <li>• Field of view: Diagonal: 119.7, Horizontal:101.3, Vertical: 54.4</li> <li>• 1/30 second to 1/32,000 second shutter speed</li> <li>• Auto day/night capable</li> <li>• Built-in IR illuminators, effective up to 15m (49 ft)</li> </ul> |
| Video    | <ul style="list-style-type: none"> <li>• 4K video recording (3840x2160) with H.264 Smart Codec, up to 15 fps</li> <li>• 4MP (2560 x 1440) with H.264 Smart Codec, up to 24 fps</li> </ul>                                                                                                                 |
|          | <ul style="list-style-type: none"> <li>• 1080p (1920x1080) with H.264 Smart Codec, up to 24fps</li> <li>• Cloud-augmented edge storage (locally stored video, metadata in the</li> </ul>                                                                                                                  |

## Category

## Specifications

### DORI Specifications (Maximum Resolution)

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
- Detect (25 ppm/ 8 ppf)
  - 86.9 m / 285.1 ft
- Observe (63 ppm/ 19 ppf)
  - 34.5 m / 113.1 ft
- Recognize (125 ppm/ 38 ppf)
  - 17.4 m / 57.1 ft
- Identify (250 ppm/ 76 ppf)
  - 8.7 m / 28.5 ft

### 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)

## Category

## Specifications

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                           | <ul style="list-style-type: none"><li>◦ 5.725 - 5.825 GHz (UNII-3)</li><li>• 1x1 with one spatial stream</li><li>• 20, 40, and 80 MHz channels (802.11ac)</li><li>• Up to 256 QAM on 5 GHz band</li><li>• Integrated omnidirectional antennas (6.3 dBi gain at 5 GHz)</li><li>• MT Gateway Support for all MT sensors</li></ul>                                                                                                       |
| Power                     | Power consumption 12.95W maximum via 802.3af PoE                                                                                                                                                                                                                                                                                                                                                                                      |
| Environment               | Temperature: 0°C to 40°C (32°F - 104°F)                                                                                                                                                                                                                                                                                                                                                                                               |
| Data and network security | <ul style="list-style-type: none"><li>• Full disk encryption (AES 256-bit)</li><li>• Automatically purchased and provisioned TLS certificates (publicly signed)</li><li>• Management encryption and two-factor authentication</li><li>• Wireless security:<ul style="list-style-type: none"><li>◦ WPA3-Personal (PSK / SAE)</li><li>◦ WPA, WPA2-PSK, WPA2-Enterprise with 802.1X EAP-TTLS TKIP and AES encryption</li></ul></li></ul> |
| Physical characteristics  | <ul style="list-style-type: none"><li>• Dimension: 120 mm x 83.5 mm (diameter x height)</li><li>• Product Weight: 430 grams</li><li>• Fixed lens</li><li>• Ethernet Connector with RJ45 Interface</li></ul>                                                                                                                                                                                                                           |

| Category    | Specifications                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             | <ul style="list-style-type: none"> <li>• Multicolor, multifunction status LED</li> <li>• External microphone switch</li> <li>• Reset button</li> </ul>                                                                                                                                                                                                                                                                                                                                        |
| Warranty    | Five-year hardware warranty with advanced replacement                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Hardware    | <ul style="list-style-type: none"> <li>• MV13-HW: Fixed lens indoor mini-dome camera with 256 GB storage</li> <li>• MV13M-HW: Fixed lens indoor mini-dome camera with 512 GB storage</li> </ul>                                                                                                                                                                                                                                                                                               |
| Licensing   | <p>LIC-MV-XYR: Meraki MV Enterprise license (X = 1, 3, 5, 7, 10 years)</p> <p>[Optional] LIC-MV-SEN-XYR: Meraki MV Sense license (X = 1, 3, 5, 7, 10 years)</p> <p>[Optional] LIC-MV-CA30-XY: MV Cloud Archive license (X = 1, 3, 5 years)</p> <p>[Optional] LIC-MV-CA90-XY: MV Cloud Archive license (X = 1, 3, 5 years)</p> <p>[Optional] LIC-MV-CA180-XY: MV Cloud Archive license (X = 1, 3, 5 years)</p> <p>[Optional] LIC-MV-CA365-XY: MV Cloud Archive license (X = 1, 3, 5 years)</p> |
| Accessories | <ul style="list-style-type: none"> <li>• MA-MNT-MV-18: Mounting plate replacement kit</li> <li>• MA-MNT-MV-28: Pole mount</li> <li>• MA-MNT-MV-38: Wall-mount L-bracket</li> <li>• MA-MNT-MV-48: Wall-mount arm bracket</li> <li>• MA-MNT-MV-58: Conduit back box</li> </ul>                                                                                                                                                                                                                  |

**Category****Specifications**

- 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

**In the box**

- MV camera hardware
- Quick Install Guide
- Small mounting plate
- Allen Wrench

Each Meraki camera requires a license to operate.