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## MV73 Series Datasheet

This article is referred for a quick overview of the Meraki MV73 smart camera, highlighting its advanced security features, high-definition video, and intelligent analytics capabilities suitable for various deployment environments. It provides essential product details for users evaluating robust, scalable security camera solutions.

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### Overview

The Meraki MV73 is a third-generation smart camera, combines physical security and advanced analytics in a powerful varifocal lens dome form factor. With an edge architecture that minimizes physical infrastructure and software requirements, MV73 enables faster, easier deployments and greater scalability.

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### Security in high definition

The ultra-high-performance MV73 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 MV73 extends visibility and safety to outdoor and demanding environments.

Compact and easy to install, MV73 series cameras are compatible with a variety of mounting accessories, delivering the right viewing angle wherever they are placed. MV73 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, MV73 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.

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### Product Highlights

- Varifocal lens dome camera
  - Support for [Attribute Search](#)
  - Machine-learning capability for intelligent object detection
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- Robust form factor with 36°-112° horizontal FoV
- More detailed information with up to 4K resolution
- Guaranteed days of video with [Smart Retention](#)
- 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.
- IK10+ and IP67 for deployment in outdoor and demanding environments
- 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

MV73 camera specifications

| Category | Specifications                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Camera   | <ul style="list-style-type: none"> <li>• 1/2.8" 8.41MP (3854x2176) progressive CMOS image sensor</li> <li>• 512 GB high-endurance solid-state storage (MV73M)</li> <li>• 1 TB high-endurance solid-state storage (MV73X)</li> <li>• 3.0 - 9.0 mm focal length</li> <li>• f/1.6-2.9 aperture</li> <li>• Field of view: horizontal 36 - 112°, vertical 20°-57°, diagonal: 42°-138°</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 30 m (98 ft)</li> <li>• Heating elements</li> </ul>                                                                                                  |
| Video    | <ul style="list-style-type: none"> <li>• 4K (3840x2160) with H.264 Smart Codec, up to 15fps</li> <li>• 4MP (2560 x 1440) with H.264 Smart Codec, up to 24fps</li> <li>• 1080p (1920x1080) with H.264 Smart Codec, up to 24fps</li> <li>• High dynamic range (HDR)</li> <li>• Cloud augmented edge storage (locally stored video, metadata in the cloud)</li> <li>• Optimized retention settings (scheduling, motion-based) for variable retention</li> <li>• Direct live streaming with no client software (native browser playback)*</li> <li>• Stream video anywhere with automatic cloud proxy</li> <li>• Audio recording supported with four (4) built-in microphones</li> </ul> |

DORI Specifications (Maximum Resolution)

Maximum FoV [Wide]

- Detect (25 ppm/ 8 ppf)
  - 63.8 m / 209.3 ft
- Observe (63 ppm/ 19 ppf)

| Category                  | Specifications                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                           | <ul style="list-style-type: none"> <li>◦ 25.3 m / 83 ft</li> <li>• Recognize (125 ppm/ 38 ppf) <ul style="list-style-type: none"> <li>◦ 12.8 m / 41.9 ft</li> </ul> </li> <li>• Identify (250 ppm/ 76 ppf) <ul style="list-style-type: none"> <li>◦ 6.4 m / 21 ft</li> </ul> </li> </ul> <p>Minimum FoV [Telescopic]</p> <ul style="list-style-type: none"> <li>• Detect (25 ppm/ 8 ppf) <ul style="list-style-type: none"> <li>◦ 244.5 m / 802.2 ft</li> </ul> </li> <li>• Observe (63 ppm/ 19 ppf) <ul style="list-style-type: none"> <li>◦ 97 m / 318.2 ft</li> </ul> </li> <li>• Recognize (125 ppm/ 38 ppf) <ul style="list-style-type: none"> <li>◦ 48.9 m / 160.4 ft</li> </ul> </li> <li>• Identify (250 ppm/ 76 ppf) <ul style="list-style-type: none"> <li>◦ 24.4 m / 80 ft</li> </ul> </li> </ul> |
| Networking and wireless   | <ul style="list-style-type: none"> <li>• 1x 10/100/1000BASE-T Ethernet (RJ45)</li> <li>• DSCP traffic marking</li> <li>• Supported frequency bands (country-specific restrictions apply):</li> <li>• 2.4 GHz 802.11b/g/n radio <ul style="list-style-type: none"> <li>◦ 2.412 - 2.484 GHz</li> </ul> </li> <li>• 5 GHz 802.11a/n/ac radio <ul style="list-style-type: none"> <li>◦ 5.150 - 5.250 GHz (UNII-1)</li> <li>◦ 5.250 - 5.350 GHz (UNII-2)</li> <li>◦ 5.470 - 5.600, 5.660 - 5.725 GHz (UNII-2e)</li> <li>◦ 5.725 - 5.825 GHz (UNII-3)</li> </ul> </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</li> <li>• MT Gateway Support for all MT sensors</li> </ul>       |
| Power                     | <p>Power consumption 25.5W maximum via 802.3at PoE</p> <p>12VDC/24VAC Screw Terminal power input</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Environment               | <p>Temperature: -40°C to 50°C (-40°F to 122°F)**</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 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> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Specifications                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <ul style="list-style-type: none"> <li>◦ WPA, WPA2-PSK, WPA2-Enterprise with 802.1X EAP-TTLS TKIP and AES encryption</li> </ul>                                                                                                                                                                                                                                                                                                                                                               |
| <b>Physical characteristics</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <ul style="list-style-type: none"> <li>• Dimension: 166.39 mm x 103 mm (diameter x height)</li> <li>• Weight: 1480 grams</li> <li>• Varifocal lens</li> <li>• Female RJ45 Ethernet connector</li> <li>• Multicolor, multifunction status LED</li> <li>• External microphone switch</li> <li>• Reset button</li> </ul>                                                                                                                                                                         |
| <b>Warranty</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Five-year hardware warranty with advanced replacement                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Hardware</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <ul style="list-style-type: none"> <li>• MV73M-HW Varifocal lens outdoor dome camera with 512GB storage</li> <li>• MV73X-HW: Varifocal lens outdoor dome camera with 1TB storage</li> </ul>                                                                                                                                                                                                                                                                                                   |
| <b>Licensing</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <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> |
| <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> | <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> <li>• MA-MNT-MV-68: T-rail adapter</li> <li>• MA-MNT-MV-88: Corner mount</li> <li>• MA-MNT-MV-78: Telescopic mount</li> <li>• MA-INJ-4: 802.3at power over Ethernet injector</li> <li>• PoE injector</li> </ul>        |
| <b>In the box</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>• Quick-start and installation guide</li> <li>• MV camera hardware</li> </ul>                                                                                                                                                                                                                                                                                                                                                                          |

| Category | Specifications                                                      |
|----------|---------------------------------------------------------------------|
|          | <ul style="list-style-type: none"> <li>Wall-mounting kit</li> </ul> |

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Each Meraki camera requires a license to operate.

