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## MV93 Series Datasheet

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### Overview

The Meraki MV93, part of the third-generation MV smart camera family, combines physical security and advanced analytics in a fisheye form factor. Easy to install and with a 360° field of view (FoV), MV93 provides complete visibility and intelligent security for a variety of outdoor applications.

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### Security that tells a complete story

With up to 2880x2880 video resolution and 360-degree views, MV93 captures the full picture, providing broad context and clear detail when needed. This panoramic overview increases situation awareness, making surveillance more efficient.

Compatible with a variety of mounting accessories, outdoor-rated MV93 series cameras can be installed in a variety of deployment scenarios, so you can see around every corner. The 360° field of view and IR illumination make it ideal

for improving safety and security for parking lots, warehouses, and other open spaces, even in low light.

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### Product Highlights

- 360° fisheye lens camera
  - Machine learning capability for intelligent object detection
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- Compact form factor with 180° horizontal and vertical FoV
- Large level of detail with up to 2880x2880 video resolution
- Night vision with IR illumination up to 20 m / 66 ft
- IK10+ and IP67 rated for deployment in more demanding environments
- Intelligent motion indexing with search engine
- Built-in analytics like Motion Search, Motion Recap, and Motion Heatmaps
- Role-based user accounts provide secure video access and ensure privacy
- 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, 1-10,000+ cameras

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## MV93 camera specifications

Category	Specifications
<b>Camera</b>	<ul style="list-style-type: none"> <li>• 1/2.3" 12.4MP (4072x3046) progressive CMOS image sensor</li> <li>• High-performance fisheye lens</li> <li>• 256GB high-endurance solid-state storage (MV93)</li> <li>• 1TB high-endurance solid-state storage (MV93X)</li> <li>• 1.6 mm focal length</li> <li>• f/2.0 aperture</li> <li>• Field of view: horizontal 180°, vertical 180°</li> <li>• 1/30 second to 1/32,000 second shutter speed</li> <li>• Auto day/night mode switching capable</li> <li>• Built-in IR illuminators, effective up to 20 m (66 ft)</li> <li>• Heating elements</li> </ul>
<b>Video</b>	<ul style="list-style-type: none"> <li>• 8MP video recording (2880x2880) with H.264 encoding, up to 15fps (MV93X)</li> <li>• 4.2MP (2112x2112) 360° overview with H.264 encoding, up to 24fps</li> <li>• 1MP (1080x1080) 360° overview with H.264 encoding, 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 three (3) built-in microphones</li> </ul>
<b>Networking and wireless</b>	<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</li> </ul>

- 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 (6.3 dBi gain at 5 GHz)

**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

- Physical characteristics**
- Dimension: 137.68mm x 67.9mm (diameter x height)
  - Weight: 1050 grams
  - Fisheye lens
  - Female RJ45 Ethernet connector
  - Multicolor, multifunction status LED
  - External microphone switch
  - Reset button

**Warranty** Five-year hardware warranty with advanced replacement

- Hardware**
- MV93-HW: 360° fisheye lens outdoor camera with 256GB storage
  - MV93X-HW: 360° fisheye lens outdoor 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-INJ-4-XX: 802.3at power over Ethernet injector (XX = US, EU, UK, or AU)
  - 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.

