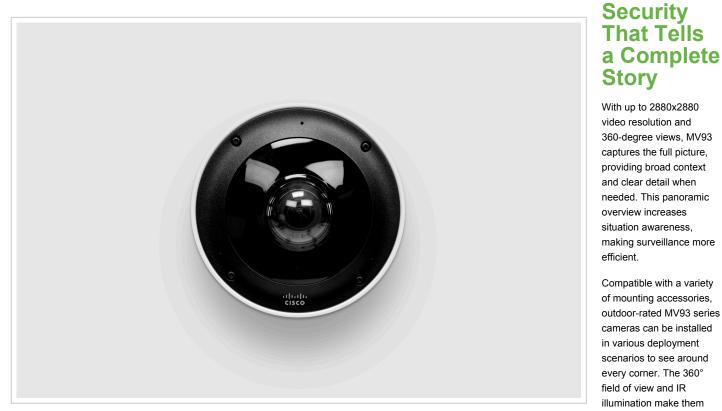
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MV93 Series Datasheet

This article covers the specifications, feature set, hardware, and capabilities of the MV93. MV93 offers advanced analytics and physical security with a 360° field of view. With up to 2880x2880 resolution, night vision, and compatibility with various mounting accessories, it provides comprehensive surveillance for outdoor applications, ensuring safety and security in diverse environments.

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.



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

Additionally, the MV93 series is engineered to withstand the rigors of transportation environments, ensuring reliable performance in the face of shock and vibration with EN 50155 Railway Compliance certification.

Product Highlights

- 360° fisheye lens camera
- · Compact form factor with 180° horizontal and vertical FoV
- · Large level of detail with up to 2880x2880 video resolution
- · Guaranteed days of video with Smart Retention
- · 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

- Digital Pan-Tilt-Zoom (DPTZ) mode for live & historical video
- · Machine learning capability for intelligent object detection
- 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
- NDAA Compliant
- EN 50155 Railway Compliance

MV93 Camera Specifications

Category

Specifications

- 1/2.3" 12.4MP (4072x3046) progressive CMOS image sensor
- · High-performance fisheye lens
- 256GB high-endurance solid-state storage (MV93)
- 512GB high-endurance solid-state storage (MV93M)
- 1TB high-endurance solid-state storage (MV93X)
- 1.6 mm focal length
- f/2.0 aperture
- Field of view: horizontal 180°, vertical 180°
- 1/30 second to 1/32,000 second shutter speed
- · Auto day/night mode switching capable
- · Built-in IR illuminators, effective up to 20 m (66 ft)
- · Heating elements
- 8MP video recording (2880x2880) with H.264 Smart Codec, up to 15fps
- 4.2MP (2112x2112) 360° overview with H.264 Smart Codec, up to 24fps
- 1MP (1080x1080) 360° overview with H.264 Smart Codec, 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 three (3) built-in microphones

Camera

Video

Category

Specifications

DORI Specifications (Maximum Resolution)	 Detect (25 ppm/ 8 ppf) 36.7 m / 120.4 ft (MV93X) 26.9 m / 88.3 ft (MV93) Observe (63 ppm/ 19 ppf) 14.6 m / 47.9 ft (MV93X) 10.7 m / 35.1 ft (MV93) Recognize (125 ppm/ 38 ppf) 7.3 m / 23.9 ft (MV93X) 5.4 m / 17.7 ft (MV93) Identify (250 ppm/ 76 ppf) 3.7 m / 12.1 ft (MV93X) 2.7 m / 8.9 ft (MV93)
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 (6.3 dBi gain at 5 GHz) MT Gateway Support for all MT sensors
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) 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

Category	Specifications
	External microphone switchReset button
Warranty	Five-year hardware warranty with advanced replacement
Hardware	 MV93-HW: 360° fisheye lens outdoor camera with 256 GB storage MV93M-HW: 360° fisheye lens outdoor camera with 512 GB storage MV93X-HW: 360° fisheye lens outdoor camera with 1 TB storage
Licensing	LIC-MV-XYR: Meraki MV Enterprise license (X = 1, 3, 5, 7, 10 years) [Optional] LIC-MV-SEN-XYR: Meraki MV Sense license (X = 1, 3, 5, 7, 10 years) [Optional] LIC-MV-CA30-XY: MV Cloud Archive license (X = 1, 3, 5 years) [Optional] LIC-MV-CA90-XY: MV Cloud Archive license (X = 1, 3, 5 years)
	[Optional] LIC-MV-CA180-XY: MV Cloud Archive license (X = 1, 3, 5 years) [Optional] LIC-MV-CA365-XY: MV Cloud Archive license (X = 1, 3, 5 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 Ceiling/Wall mounting kit

Each Meraki camera requires a license to operate.

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