'disco' Meraki

MV63 Series Datasheet

This article outlines the MV63 series datasheet, highlighting its 8 MP image quality, up to 4k video Resolution, 101.3° horizontal field of view, and compact dome design rated for indoor and outdoor use, ideal for monitoring with advanced analytics, low bandwidth needs, and enhanced security features for scalable deployments.

Overview

The Meraki MV63 series 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, MV63 series enables faster, easier deployments and greater scalability.

Security in High Definition



The ultra-high-performance MV63 series camera offers up to 4K resolution for high-definition video, providing the detailed clarity needed to monitor what matters most. With IK10+ and IP67 ratings, along with IR illumination, the MV63 ensures extended visibility and safety, even in outdoor and challenging environments.

Additionally, the MV63 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.

Compact and easy to install, the MV63 series boasts a new universal mounting place compatible with various mounting accessories. It delivers the right viewing angle wherever it is placed. The MV63 series is ideal for monitoring entrances, exits, and the general perimeter from walls, ceilings, or corner-mount locations.

Using machine-learning-based computer vision, the MV63 series 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 security.

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 20 m (66 ft)
- IK10+ and IP67 for deployment in outdoor and demanding environments
- · 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 intelligent object detection
- Secure video access to ensure privacy with rolebased 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
- EN 50155 Railway Compliance

MV63 Camera Specifications

Category

Specifications

- 1/2.8" 8.41MP (3854x2176) progressive CMOS backlit image sensor
- 256 GB high-endurance solid-state storage (MV63)
- 512 GB high-endurance solid-state storage (MV63M)
- 1 TB high-endurance solid-state storage (MV63X)
- 3.3 mm focal length

Camera

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	 f/2.0 aperture Field of view: Diagonal: 119.7, Horizontal:101.3, Vertical: 54.4 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 (3840x2160) with H.264 Smart Codec, up to 15fps 4MP (2560 x 1440) with H.264 Smart Codec, up to 24fps 1080p (1920x1080) 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
DORI Specifications (Maximum Resolution)	 Detect (25 ppm/ 8 ppf) 86.9 m / 285.1 ft (MV63X) 60.8 m / 199.5 ft (MV63) Observe (63 ppm/ 19 ppf) 34.5 m / 113.1 ft (MV63X) 24.1 m / 79.5 ft (MV63) Recognize (125 ppm/ 38 ppf) 17.4 m / 57.1 ft (MV63X) 12.2 m / 40 ft (MV63) Identify (250 ppm/ 76 ppf) 8.7 m / 28.5 ft (MV63X) 6.1 m / 20 ft (MV63)
Networking and wireless	 1x 10/100/1000BASE-T Ethernet (RJ45) DSCP traffic marking

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)**
	Full disk encryption (AES-256)
	 Automatically purchased and provisioned TLS certificates (publicly signed)
Data and network security	 Management encryption and two-factor authentication
	Wireless security:
	 WPA, WPA2-PSK, WPA2-Enterprise with 802.1X EAP-TTLS TKIP and AES encryption
	 Dimension: 130.98 mm x 95 mm (diameter x height)
	Weight: 920 grams
	Fixed lens
Physical characteristics	Ethernet Connector with RJ45 Interface
	Multicolor, multifunction status LED
	External microphone switch
	Reset button
Warranty	Five-year hardware warranty with advanced replacement

Hardware	 MV63-HW: Fixed lens outdoor mini-dome camera with 256 GB storage MV63M-HW: Fixed lens outdoor mini-dome camera with 512 GB storage MV63X-HW: Fixed lens outdoor mini-dome camera with 1 TB storage
	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)
Licensing	[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)
	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
Accession	MA-MNT-MV-58: Conduit back box
Accessories	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
	Quick-start and installation guide
In the box	MV camera hardware
	Wall-mounting kit

Each Meraki camera requires a license to operate.



