

MV32 Cloud Managed Smart Cameras



OVERVIEW

MV32, a member of the second generation MV smart camera family, combines powerful, advanced analytics with 360° viewing in a compact form factor. With powerful hardware and the

architectural simplicity of the MV family, MV32 continues the shift from cameras for physical safety and security, to providing business intelligence as well.

MV32: SEE THE COMPLETE PICTURE WITH 360° VISIBILITY

The MV32 fisheye camera provides 360° viewing of a space. The camera records everything, and the dashboard's intuitive player allows an immersive dewarped video view, with pan, tilt, and zoom available on live and historical footage. On mobile devices, video playback takes advantage of the accelerometer to provide an interactive viewing experience, and enable VR. Because the MV32 stores and processes the fully warped image, no video or information is lost.

The MV32 has an 8.4MP sensor, records in up to 2058 x 2058 resolution, and is equipped with an industry-leading processor, powering advanced analytics capabilities that previously required specialized software and heavy-duty hardware. Harnessing the power of machine learning for computer vision, the MV32, along with the rest of the second generation family, can do real time

object detection, classification, and tracking of people. This simple-seeming insight lays the foundation for more effective and efficient processes, like people counting, journey pathing, and automatic safe working practices in manufacturing. These analytics, combined with the wide overall viewing angle, provide valuable, big picture insights into what is happening in an organization.

As with the rest of the MV lineup, the MV32 features an innovative architecture that places high-endurance storage locally on the camera, removing the Network Video Recorder (NVR) and Video Management System (VMS) from the equation. Not only does this drastically simplify both installation and scaling, it also eliminates a major network security vulnerability in IT infrastructure.

Product Highlights

- Meraki dashboard simplifies operation
- Machine learning capability for intelligent object detection
- Cloud-augmented edge storage minimizes physical infrastructure
- Suitable for deployments of all sizes, 1-10,000+ cameras
- Intelligent motion indexing with search engine
- Built-in motion analytics like motion search, recap, and motion heatmaps
- Secure, encrypted control architecture
- No special software or browser plugins required
- Granular user access controls
- Wireless capable for easy upgrades from analog
- Client-side dewarp and immersive video playback
- Pan, tilt, and zoom for live and historical playback

MV32 Camera Specifications

Camera	Power
1/2.5" 8.4MP (4.2MP effective) progressive CMOS image sensor	Power consumption 12.95W maximum via 802.3af PoE
256GB high endurance solid state storage	
1.19mm focal length fixed lens	Environment
f/2.0 aperture	Temperature: 0°C - 40°C (32°F - 104°F)
Field of view: Horizontal 180°, Vertical 180°	
1/30s to 1/32,000s shutter speed	Physical Characteristics
Minimum illumination 0.18 Lux	Dimensions 106mm x 45.86mm (diameter x height)
	Weight 215g
Video	Female RJ45 Ethernet connector
4.2MP (2058x2058) 360° overview with H.264 encoding, up to 15fps	Multicolor, multifunction status LED
1MP (1080x1080) 360° overview with H.264 encoding, up to 8fps	Reset button
Cloud augmented edge storage (locally stored video with metadata in the cloud)	
Optimized retention settings (scheduling and motion-based) for variable retention	Warranty
Up to 20 days of 24/7 continuous video storage per camera*	Warranty 3 year hardware warranty with advanced replacement
Direct live streaming with no client software (native browser playback)**	
Stream video anywhere with automatic cloud proxy	Ordering Information
High dynamic range (HDR)	MV32-HW: 256GB Indoor Fisheye Camera
	LIC-MV-XYR: Meraki MV Enterprise License (X = 1, 3, 5, 7, 10 years)
Data and Network Security	MA-INJ-4-XX: Meraki 802.3at Power over Ethernet injector (XX = US, EU, UK, or AU)
Full disk encryption (AES 256-bit)	MA-PWR-MV-LV: Low voltage 12VDC/24VAC input PoE injector for MV cameras
Automatically purchased and provisioned TLS certificates (publicly-signed)	
Management encryption and two-factor authentication	In The Box
Wireless security:	Quick start & installation guide
WPA, WPA2-PSK, WPA2-Enterprise with 802.1X EAP-TTLS	MV camera hardware
TKIP and AES encryption	Wall mounting kit
Networking and Wireless	Note: Each Meraki camera requires a license to operate
1x 10/100/1000 Base-T Ethernet (RJ45)	* Storage duration dependent on encoding settings and camera storage model.
DSCP traffic marking	** Browser support for H.264 decoding required.
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	
MU-MIMO support	
20 and 40 MHz channels (802.11n)	
20, 40, and 80 MHz channels (802.11ac)	
Up to 256 QAM on both 2.4 GHz and 5 GHz bands	
Integrated omni-directional antennas (4.4 dBi gain at 2.4 GHz, 6.3 dBi gain at 5 GHz)	

California Multiple Award Schedules (CMAS)

What is CMAS?

California Multiple Award Schedules (CMAS) offers a wide variety of commodity and information technology products and services at prices which have been assessed to be fair, reasonable and competitive. The CMAS Program creates a pool of suppliers that an agency can solicit offers from. When utilized correctly, CMAS streamlines the procurement process

Overview for CMAS

The California Multiple Award Schedules (CMAS) program was established in 1994. The CMAS contracts are awarded and administered by the state of California, Department of General Services, Procurement Division, in accordance with Public Contract Code (PCC) Sections 10290 et seq. and Section 12101.5.

CMAS contracts are established using products, services, and prices from already existing, competitively assessed and cost compared multiple award contracts. The products, services, and prices are primarily from the federal General Services Administration (GSA) multiple award schedule program, but not exclusively. Added to these products, services, and prices, are California contract terms and conditions, procurement codes and policies, and a totally independent California contract.

The contracts are utilized statewide by both California state and local government agencies under delegated authority from the Department of General Services. Agencies make best-value purchasing decisions accordingly.

ThunderIT offers a variety of Solutions & Services to meet your every need

Digital Workplace

Transform your digital workplace and empower employees to drive your business forward. We deliver flexible, tailored, end-to-end solutions to keep your workforce engaged and productive. With an innovative approach centered around exceptional user experiences.

Smart Spaces

We provide smart workspace solutions to help you deliver consistent network performance and give guests, employees and students an uninterrupted experience.

Secure Network Solutions

Our security solutions help protect your network and critical data from cybersecurity threats

Safe Environments

We believe that employee, student, and customer safety is paramount in any environment. That's why our solutions provide a cloud based platform to help you intuitively manage and monitor physical locations to ensure a safe experience for everyone.

Next Generation WiFi

Power new and improved user experiences with our managed wifi solutions, offering faster speeds for enhanced application experience and more capacity for high density indoor and outdoor environments.

Remote Work Solutions

With our remote work solutions, working away from the office is no big deal. Give employees a secure, optimized connection to your entire network from anywhere.

Hybrid Workforce

We provide a seamless hybrid workforce solution that embraces change and operational scale. Give your employees and customers unrivaled experiences with a cloud platform that unifies best-in-class technologies.

Free Network Evaluation & Demo

ThunderIT offers a FREE Network Evaluation and/or product Demo to help ensure you are well informed and confident when choosing the right Cisco Meraki solution for your needs. During our call we'll architect a custom built Cisco Meraki solution for your business or environment.

Migration & Deployment

ThunderIT offers Migration and Deployment Services for your Cisco Meraki solution. Our experienced team of IT Professionals can configure, deploy and support your products to meet your needs. Our custom solutions ensure maximum efficiency and provide a clear path for your business going forward.

Managed Security

ThunderIT offers the best and most cost-effective solution to lower your risk in a heightened threat environment. Our team of certified Cisco engineers are ready to ensure that your network is secure, and your firewall is optimally configured to defend your business.

Mobile device management (MDM) Services

Our Mobile Device Management (MDM) solution unifies management of thousands of endpoint devices in a secure cloud platform, driving your organization's mobility initiatives, while maintaining an environment of agility and security.

Scope of CMAS

CMAS agreements are established for information technology and non- information technology products and services that have been competitively assessed, negotiated, or bid primarily by the federal GSA, but not exclusively.

The awarded CMAS is structured to comply with California procurement codes, guidelines, and policies, and provide for the highest level of contractual protection.

When using CMAS as a procurement method, State agencies are required to seek offers from a minimum of 3 CMAS contractors, including one California Certified SB and/or DVBE (if available). Local government agencies are not bound by this requirement, and can set their own policy of how many contractors to solicit.

Legislation

Public Contract Code (PCC) § 10290 et seq. and 12101.5 include approval for local government agencies to use CMAS for acquisition of information technology and non-information technology products and services.

Public Contract Code (PCC) § 10298 and 10299 authorizes local government agencies and school districts to use CMAS and other Department of General Services (DGS) agreements without competitive bidding. However, each local government agency should make its own determination whether the CMAS program is consistent with their procurement policies and regulations.

Definition of a Local Government Agency

A local government agency is any city, county, city and county, district, or other local governmental body or corporation, including the California State Universities (CSU) and University of California (UC) systems, K-12 schools and community colleges empowered to expend public funds.

What is Included?

CMAS agreements are established for information technology and non- information technology products and services that have been competitively assessed, negotiated, or bid primarily by the federal GSA, but not exclusively. The awarded CMAS is structured to comply with California procurement codes, guidelines, and policies, and provide for the highest level of contractual protection.

Contractor's Option to Allow Use of Their CMAS

As specified in the CMAS, it is at the option of the CMAS contractor whether or not to allow local government agencies to use their CMAS. CMAS contractors must report all local government agency transactions in their quarterly reports.