
MV84X Datasheet

Overview

The MV84X multi-sensor camera revolutionizes surveillance by delivering unmatched coverage for large areas. By combining four cameras into a single sleek design, the MV84X offers unmatched coverage. Designed for dynamic environments like warehouses, airports, and manufacturing floors, this powerful camera ensures zero blind spots with its four cameras, with combined 20MP resolution and 360-degree analytics. The MV84X empowers businesses with instant insights, AI-powered object detection, providing a seamless blend of powerful technology and simplicity for the ultimate security solution. Perfectly built for today's fast-paced, demanding spaces, this is more than just a camera: it's a next-gen security experience.



Use Case

The MV84X is ideal for capturing wide and multi-angle views...

- Multi-corridor intersections
- Long hallways
- Open spaces like lobbies
- Wide parking lots

- Building perimeters
- Entryways
- And more

This flexibility makes it particularly valuable in large or complex spaces like

- Offices
- Retail storefronts
- Warehouses
- And more

Security that tells a complete story

The MV84X delivers up to 20MP combined video resolution and offers 360° views, capturing not just the broad context of a scene but also precise detail when needed. Its panoramic field of view enhances situational awareness, making surveillance more efficient. Outdoor-rated and equipped with IR illumination, the MV84X improves safety and security in parking lots, hallways, warehouses, and other open spaces, even in low-light conditions.

Product highlights

- 4x 5MP multi-sensor form factor
- Up to 20MP video resolution to capture details
- Night vision with IR illumination up to 30m / 98.5ft
- IK10+ and IP66 rated for harsh environments
- Intelligent motion indexing with motion search
- Built-in analytics like motion search and motion recap are included with a standard license
- Machine learning capability for intelligent object detection
- Role-based user accounts provide secure video access
- Cloud-augmented edge storage eliminates the need for on-premises storage
- Built-in automatic security with secure boot and self-healing
- Suitable for deployments of all sizes, 1-10,000 cameras
- NDAA compliant

Advanced feature spotlight

Smart Retention

Retain critical motion events in high resolution without sacrificing overall storage. Smart Retention delivers predictable retention days by recording two streams—one high-resolution for motion and one lower-resolution continuously while reducing bandwidth and storage overhead. Simply enable it per camera or via profiles. You can comply with local regulations with adjustable retention limits while ensuring key events remain crystal-clear.

Key Benefits

- High-quality motion capture + standard resolution continuous coverage
- Predictable retention days and reduced bandwidth
- Flexible settings for compliance needs

- Minimum 60 days of video guaranteed

Event Search in Meraki Vision Portal

A powerful tool that streamlines investigations by enabling simultaneous searches across multiple cameras, complete with advanced detection and duration filters.

Key Benefits

- Adaptive filtering: Narrow down results by defining regions of interest and setting minimum event lengths.
- Faster review: Immediately see motion recaps, play back short video clips, and export critical footage.
- Straightforward interface: Easily configure search parameters and timeline ranges within the Vision Portal, reducing the time spent on manual review.

By focusing your search on exactly what matters, Event Search makes it easier to uncover crucial details quickly.

MV84X Camera Specifications

Category	Specifications
Camera	<ul style="list-style-type: none"> • 1/2.7" 4x5MP (2560x1920) progressive CMOS image sensor • 4TB high-endurance solid-state storage • 4x Varifocal lens providing 2x Optical Zoom • 3.42x6.85mm focal length (Per-Imager) • f/1.85 aperture • Field of view <ul style="list-style-type: none"> ◦ Diagonal: 129°-55° ◦ Horizontal: 118°-45° ◦ Vertical: 102°-35° • Auto day/night mode switching capable • Built-in IR illuminators, effective up to 30 m (98.5 ft) • Heating elements
Video	<ul style="list-style-type: none"> • 4x5MP video recording (2560x1920) with H.264 Smart Retention, up to 24fps • 4x2MP video recording (1920x1080) with H.264 Smart Retention, up to 24fps • High dynamic range (HDR) • Cloud-augmented edge storage (locally stored video; metadata in the cloud) • Direct live streaming with no client software (native browser playback)* • Stream video anywhere with an automatic cloud proxy
DORI Specifications (Maximum Resolution)	<ul style="list-style-type: none"> • Detect (25 ppm/ 8 ppf) <ul style="list-style-type: none"> ◦ 45.5 m / 149.2 ft (Wide FoV) ◦ 106.7 m / 350 ft (Narrow FoV) • Observe (63 ppm/ 19 ppf) <ul style="list-style-type: none"> ◦ 18 m / 59 ft (Wide FoV)

Category	Specifications
	<ul style="list-style-type: none"> ◦ 42.3 m / 138.8 (Narrow FoV) • Recognize (125 ppm/ 38 ppf) <ul style="list-style-type: none"> ◦ 9.1 m / 29.8 ft (Wide FoV) ◦ 21.3 m / 69.9 ft (Narrow FoV) • Identify (250 ppm/ 76 ppf) <ul style="list-style-type: none"> ◦ 4.5 m / 14.7 ft (Wide FoV) ◦ 10.7 m / 35.1 ft (Narrow FoV)
Networking	<ul style="list-style-type: none"> • 1x 10/100/1000BASE-T Ethernet (RJ45) • DSCP traffic marking
PoE Requirements	<p>With IR: 802.3bt (PoE++)</p> <p>Without IR: 802.3at (PoE+)</p> <p>Maximum Power per Port: 60 W</p>
Environment	<p>Operating Temperature</p> <ul style="list-style-type: none"> • -30°C to +45°C • -30°C to +40°C (when IR is ON)
Data and network security	<ul style="list-style-type: none"> • Full disk encryption (AES-256) • Automatically purchased and provisioned TLS certificates (publicly signed) • Management encryption and two-factor authentication
Physical characteristics	<ul style="list-style-type: none"> • Dimensions (Main Body): <ul style="list-style-type: none"> ◦ 267 mm (Diameter) x 114 mm (Height) • Dimensions (w/ Bracket): <ul style="list-style-type: none"> ◦ 275 mm (Diameter) x 118 mm (Height) • Weight: 2.7 kg / 5.95 lbs • Lenses: 4x Varifocal Lenses • Network Port: Female RJ45 Ethernet Connector • LED Indicator: Multicolor, Multifunction Status LED • Reset Button: Included
Warranty	5-year hardware warranty with advanced replacement
Hardware	MV84X-HW: 4x5MP Multi-Sensor camera with 4TB for internal edge storage

Category	Specifications
Licensing	LIC-MV-MULTCAM-XY: Meraki MV Enterprise license (X = 1, 3, 5, 7, 10 years)
Accessories	<ul style="list-style-type: none">• MA-MNT-MV-19: Pendant Head• MA-MNT-MV-29: Pendant Pipe (20 cm) (1.5" PS11)• MA-MNT-MV-39: Mounting Adapter for Pendant/Parapet• MA-MNT-MV-49: Wall Mount Bracket• MA-MNT-MV-59: Junction Box• MA-MNT-MV-69: Pole Mount Adapter• MA-MNT-MV-79: Corner Mount Adapter• MA-MNT-MV-89: Parapet Mounting Bracket



Each Meraki camera requires a license to operate.