![Cisco Meraki logo]

MV53X Datasheet

Overview

This MV53X is a new member of the third-generation MV smart camera family. It is an outdoor bullet camera that combines advanced analytics and 12-37° varifocal FoV. This camera provides long distance monitoring and security for a variety of deployments including parking lots, warehouses, security checkpoints and more.

Product Highlights

- Varifocal lens bullet camera with 1/1.8" 8.41MP Image Sensor

- Bullet form factor with 12-37° 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 50m (164 ft)

- Intelligent motion indexing with search engine

- Built-in search tools like motion search, motion recap, motion heatmaps and Attribute Search.

- Machine-learning capability for intelligent obj

- Secure video access to ensure privacy with

- Cloud-augmented edge storage for minimal

- Built-in automatic security with secure boot a

- Suitable for deployments of all sizes, from 1-

- NDAA Compliant

- Built-in analytics like Line Crossing, Area Occupancy, MV sense and Custom Computer-Vision capabilities

MV53X Camera Specifications

Category	Specifications
Camera	• 1/1.8" 8.41MP (3840x2160) progressive CMOS image sensor • 12-37° Varifocal Lens • 1TB high-endurance solid-state storage • 12.5-38 mm focal length range • f/2.05 - f/2.2 aperture range • Auto and Manual Focus Controls • Auto day/night capable • Built in IR-illuminators, effective up to 50m (149 ft)
Video	• 4K video recording (3840x2160) with H.264 Smart Codec encoding, up to 15fps • 4MP (2560 x 1440) with H.264 Smart Codec encoding, up to 24fps • 1080p (1920x1080) with H.264 Smart Codec encoding, 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

DORI Specifications (Maximum Resolution)	Unzoomed
	
	• Detect (25 ppm/ 8 ppf)
	  ◦ 246.5 m / 808.7 ft
	• Observe (63 ppm/ 19 ppf)
	  ◦ 97.8 m / 320.8 ft
	• Recognize (125 ppm/ 38 ppf)
	  ◦ 49.3 m / 161.7 ft
	• Identify (250 ppm/ 76 ppf)
	  ◦ 24.7 m / 81.0 ft
	
	Fully Zoomed
	
	• Detect (25 ppm/ 8 ppf)
	  ◦ 778.8 m / 2555.1 ft
	• Observe (63 ppm/ 19 ppf)
	  ◦ 309.1 m / 1014.1 ft
	• Recognize (125 ppm/ 38 ppf)
	  ◦ 155.8 m / 511.2 ft
	• Identify (250 ppm/ 76 ppf)
	  ◦ 77.9 m / 255.6 ft

Data and Network Security	• Full disk encryption (AES 256-bit) • Automatically purchased and provisioned TLS certificates (publicly-signed) • Management encryption and two-factor authentication

Networking and Wireless	• 1x 10/100/1000 Base-T Ethernet (RJ45) • DSCP traffic marking
Power	• Power Consumption: up to 30W via 802.3at PoE ◦ **PoE+ required for operation**
Environment	Temperature: -40°C - 50°C (-40°F - 122°F)
In The Box	• Quick start & installation guide • MV camera hardware • Wall mounting kit • Security and installation wrenches
Physical Characteristics	• Female RJ45 Ethernet connector • Multicolor, multifunction status LED, microphone cut-off switch • Reset Button
Mounting Options	• Wall/ceiling • Pole/corner with accessories
Ratings	• IK10+ vandal-resistance • IP67 weather-proofing
Warranty	5 year hardware warranty with advanced replacement
Hardware	MV53X-HW Varifocal lens outdoor bullet camera with 1TB 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)
Compatible Accessories	• MA-MNT-MV-28: Pole mount • MA-MNT-MV-58: Conduit back box • MA-MNT-MV-88: Corner Mount