
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
- Machine-learning capability for i
- Secure video access to ensure p
- Cloud-augmented edge storage
- Built-in automatic security with s hardware security chip
- Suitable for deployments of all s
- NDAA Compliant

Attribute Search.

- 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

Unzoomed

DORI Specifications (Maximum Resolution)

- 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	<ul style="list-style-type: none"> • Wall/ceiling • Pole/corner with accessories
Ratings	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • MA-MNT-MV-28: Pole mount • MA-MNT-MV-58: Conduit back box • MA-MNT-MV-88: Corner Mount