

Cisco Meraki MV22-HW

Cloud-Managed Indoor Varifocal Smart Security Camera

DATASHEET

Product Overview: The Cisco Meraki MV22-HW is an advanced indoor varifocal dome smart camera designed to deliver high-definition surveillance with zero NVR requirement. Featuring a 4MP image sensor, 3x optical zoom (3–9mm varifocal lens), 256GB high-endurance solid-state storage, integrated IR illuminators (up to 30m / 98ft), and computer-vision AI analytics, it combines edge processing with centralized cloud management via the Meraki Dashboard.

1080p HD

4MP CMOS SENSOR

256 GB

ONBOARD SSD STORAGE

3–9 mm

3× OPTICAL ZOOM

30 m / 98 ft

IR NIGHT VISION

CAMERA & OPTICS SPECIFICATIONS

Parameter	Specification Details
Image Sensor	1/3" 4MP (2688 × 1520) progressive CMOS image sensor
Video Resolution	Full HD 1080p (1920 × 1080) video recording with H.264 encoding (up to 20 fps)
Lens & Aperture	3–9 mm varifocal lens (f/1.2 – f/2.3 aperture) with remote motorized zoom and focus
Field of View (FoV)	Horizontal: 36° to 112° Vertical: 20° to 57° Diagonal: 42° to 138°
Minimum Illumination	0.18 Lux (Standard Color) 0.01 Lux (Night Mode with IR filter)
Night Vision & HDR	Integrated 850nm IR illuminators (up to 30m / 98ft) with High Dynamic Range (HDR)

STORAGE & VIDEO ARCHITECTURE

Onboard Storage	256GB high write-endurance solid-state storage (up to 40 days of continuous 24/7 video retention)
Storage Architecture	Cloud-augmented edge storage (local recording on camera, management and metadata in the cloud)
Live Video Streaming	Browser-native direct local proxy streaming or cloud proxy streaming (no browser plugins required)
Audio Capabilities	Integrated omni-directional microphone for audio recording (configurable on/off in dashboard)

INTERFACES & POWER CHARACTERISTICS

Network Interface	1× 10/100/1000BASE-T RJ45 Ethernet Port
Wireless Connectivity	Dual-band 802.11a/b/g/n/ac WLAN radio (2.4 GHz & 5 GHz with antenna diversity)

KEY SOFTWARE & SMART VIDEO ANALYTICS

Onboard Machine Learning AI

Integrated GPU/CPU processes computer vision algorithms directly on the camera to detect, classify, and track people and objects without cloud servers.

Edge AI Processing

Person Detection

Motion Search & Motion Recaps

Noise-optimized motion indexing engine lets users highlight specific regions of interest to instantly find activity and export timestamped video clips.

Motion Indexing

Heatmaps

Centralized Cloud Video Walls

Configure custom layout video walls across hundreds of locations simultaneously in the Dashboard with zero client software or plugins required.

Cloud Proxy

Shared Video Walls

Granular Access & Encryption

Role-based permissions control who can view live video, access historical footage, or export clips with automatic watermarked timestamps and audit logs.

Role Permissions

PKI Encryption

ANALYTICS & PLATFORM CAPABILITIES

Category	Feature Capabilities
Video Analytics & Sensing	People counting, foot-traffic heatmaps, occupancy tracking, activity trend analysis over time
MV Sense API Integration	REST APIs and MQTT topics publish real-time telemetry and detection metadata for third-party business intelligence apps
Security & Encryption	Encrypted video at rest, HTTPS/TLS 1.2 communication, automated firmware updates, secure boot with hardware anchor
Adjustments & Installation	Tool-less 3-axis lens adjustment (354° Pan, 65° Tilt, ±90° Rotation) with motorized optical focus and zoom via dashboard

ORDERING INFORMATION & ACCESSORIES

Part Number	Description
MV22-HW	Cisco Meraki MV22 Cloud-Managed Indoor Varifocal Dome Camera (256GB SSD)
LIC-MV-1YR	Cisco Meraki MV Camera Enterprise Cloud License and Support (1 Year)
LIC-MV-3YR	Cisco Meraki MV Camera Enterprise Cloud License and Support (3 Years)
MA-MNT-MV-1	Replacement Mounting Plate Kit for Meraki MV Cameras
MA-INJ-4-US	Cisco Meraki 802.3af Power over Ethernet Injector

Warranty & Cloud Support: The MV22-HW includes Cisco Meraki's 3-year hardware warranty featuring Advanced Next Business Day (NBD) replacement, supported by 24x7 phone/cloud support and continuous automated firmware updates included with an active Meraki MV camera license.