Product Highlights

- Varifocal lens, dome camera with 36-112° horizontal FoV
- Intelligent motion indexing with search engine
- Built-in motion analytics like Motion Search, Motion Recap, and Motion Heatmaps
- In-camera machine learning capability for intelligent object detection
- No special software or browser plugins required
- Cloud-augmented edge storage minimizes physical infrastructure
- Meraki dashboard simplifies operation
- Secure, encrypted control architecture and storage
- Secure boot and signed firmware backed by hardware security chip
- Granular user access controls
- Integrated 802.11ac wireless for easy upgrades from analog
- IR illumination up to 30m or 98ft
- Suitable for deployments of all sizes, 1-10,000+ cameras
# MV22 Camera Specifications

## Camera
- 1/3" 4MP (2688x1520) progressive CMOS image sensor
- 256GB high endurance solid state storage (MV22)
- 512GB high endurance solid state storage (MV22X)
- 3-9mm focal length
- f/1.2-2.3 aperture
- Field of view: Horizontal 36-112°, Vertical 20-57°, Diagonal 42° - 138°
- Lens adjustment range: Tilt: 65°, Rotation: +/- 90°, Pan: 354°
- 1/30s to 1/32,000s shutter speed
- Minimum illumination: 0.18 Lux (standard recording) and 0.01 Lux (night mode)
- Built-in IR illuminators, effective up to 30m (98ft)

## Video
- 1080p HD video recording (1920x1080) with H.264 encoding up to 20fps (MV22)
- 4MP recording with H.264 encoding up to 15fps (MV22X)
- Cloud augmented edge storage (locally stored video with metadata in the cloud)
- Optimized retention settings (scheduling and motion-based) for variable retention
- Up to 90 days (MV22X) 24/7 continuous video storage per camera* (MV22: 90 days)
- Direct live streaming with no client software (native browser playback)**
- Stream video anywhere with automatic cloud proxy
- High dynamic range (HDR)
- Audio recording supported with built-in microphone

## Networking and Wireless
- 1x 10/100/1000 Base-T Ethernet (RJ45)
- DSCP traffic marking
- 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)
- 2.4 GHz Bluetooth Low Energy (BLE) radio

## Power
- Power consumption: 12.95W maximum via 802.3af PoE

## Environment
- Temperature: 0°C - 40°C (32°F - 104°F)

## Data and Network Security
- Full disk encryption (AES 256-bit)
- Automatically purchased and provisioned TLS certificates (publicly-signed)
- Management encryption and two-factor authentication
- Wireless security:
  - WPA, WPA2-PSK, WPA2-Enterprise with 802.1X EAP-TTLS
  - TKIP and AES encryption

## Physical Characteristics
- Dimensions: 149mm x 97mm (diameter x height)
- Weight: 706g
- Female RJ45 Ethernet connector
- Multicolor, multifunction status LED
- Reset button

## Warranty
- 3 year hardware warranty with advanced replacement

## Ordering Information
- **MV22-HW**: Varifocal Indoor Dome Camera with 256GB Storage
- **MV22X-HW**: Varifocal Indoor Dome Camera with 512GB Storage
- **LIC-MV-XYR**: Meraki MV Enterprise License (X = 1, 3, 5, 7, 10 years)
- **MA-INJ-4-XX**: Meraki 802.3at Power over Ethernet injector (XX = US, EU, UK, or AU)
- **MA-PWR-MV-LV**: Low voltage 12VDC/24VAC input PoE injector for MV cameras

## In The Box
- Quick start & installation guide
- MV camera hardware
- Wall mounting kit

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* Storage duration dependent on encoding settings and camera storage model.
** Browser support for H.264 decoding required.