# MV12 Mini-Dome Camera Specifications

## Camera
- 1/3” 4MP (2688x1520) progressive CMOS image sensor
- 128GB high endurance solid state storage (MV12WE)
- 256GB high endurance solid state storage (MV12N and MV12W)
- 2.8mm focal length fixed lens (MV12W and MV12WE)
- 3.8mm focal length fixed lens (MV12N)
- f/1.8 aperture
- Field of view:
  - Horizontal 114° (MV12W and MV12WE)
  - Horizontal 73° (MV12N)
  - Vertical 61° (MV12W and MV12WE)
  - Vertical 44° (MV12N)
  - Diagonal 132° (MV12W and MV12WE)
  - Diagonal 86° (MV12N)
- 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 15m (49ft)

## Video
- 1080p HD video recording (1920x1080) with H.264 encoding, up to 20fps
- Cloud augmented edge storage (locally stored video with metadata in the cloud)
- Optimized retention settings (scheduling and motion-based) for variable retention
- Up to 40 days of 24/7 continuous video storage per camera*
- Direct live streaming with no client software (native browser playback)**
- Stream video anywhere with automatic cloud proxy
- High dynamic range (HDR)

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

## Networking
- 1x 10/100/1000 Base-T Ethernet (RJ45)
- Dual band WLAN with supporting 2.4GHz and 5GHz
- 802.11a/b/g/n/ac
- DSCP traffic marking

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

## Features
- Cloud managed with complete integration into the Meraki dashboard
- Plug and play deployment with self-configuration
- Dynamic day-to-night transition with IR illumination
- Noise optimized motion indexing engine with historical search
- Shared video wall with individual layouts supporting multiple cameras
- Selective export capability with cloud proxy (with watermarked timestamps)
- Highly granular view, review, and export user permissions with SAML integration
- Motion heat maps for relative hourly or day-by-day motion overview
- Motion alerts

## Wireless
- 2.4 GHz 802.11b/g/n radio
- 5 GHz 802.11a/n/ac radio
- Supported frequency bands (country-specific restrictions apply):
  - 2.412 - 2.484 GHz
  - 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)
- 802.11ac and 802.11n capabilities
  - 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

## Antenna
- Integrated omni-directional antennas (4.4 dBi gain at 2.4 GHz, 6.3 dBi gain at 5 GHz)

## Security
- WPA, WPA2-PSK, WPA2-Enterprise with 802.1X
- EAP-TTLS
- TKIP and AES encryption

## Environment
- Temperature: 0°C - 40°C (32°F - 104°F)
MV12 Mini-Dome Camera Specifications

In the Box
Quick start & installation guide
MV camera hardware
Wall mounting kit

Physical Characteristics
Dimensions 106mm x 74mm (diameter x height)
Fixed lens
Weight 286g
Female RJ45 Ethernet connector
Multicolor, multifunction status LED
Reset button

Warranty
Warranty 3 year hardware warranty with advanced replacement

Ordering Information
MV12N-HW: 256GB Narrow Angle Mini Dome Camera
MV12W-HW: 256GB Wide Angle Mini Dome Camera
MV12WE-HW: 128GB Wide Angle Mini Dome Camera
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 (coax converter)

Note: Each Meraki camera requires a license to operate

* Storage duration dependent on encoding settings and camera storage model.
** Browser support for H.264 decoding required.
## MV22 Indoor Varifocal Camera Specifications

### Camera
- 1/3" 4MP (2688x1520) progressive CMOS image sensor
- 256GB high endurance solid state storage
- 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
- Cloud augmented edge storage (locally stored video with metadata in the cloud)
- Optimized retention settings (scheduling and motion-based) for variable retention
- Up to 40 days of 24/7 continuous video storage per camera*
- Direct live streaming with no client software (native browser playback)**
- Stream video anywhere with automatic cloud proxy
- High dynamic range (HDR)

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

### Networking
- 1x 10/100/1000 Base-T Ethernet (RJ45)
- Dual band WLAN with antenna diversity supporting 2.4GHz and 5GHz
- 802.11 a/b/g/n/ac
- DSCP traffic marking

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

### Features
- Cloud managed with complete integration into the Meraki dashboard
- Plug and play deployment with self-configuration
- Dynamic day-to-night transition with IR illumination
- Noise optimized motion indexing engine with historical search
- Shared video wall with individual layouts supporting multiple cameras
- Selective export capability with cloud proxy (with watermarked timestamps)
- Highly granular view, review, and export user permissions with SAML integration
- Motion heat maps for relative hourly or day-by-day motion overview
- Motion alerts

### Wireless
- 2.4 GHz 802.11b/g/n radio
- 5 GHz 802.11a/n/ac radio
- Supported frequency bands (country-specific restrictions apply):
  - 2.412 - 2.484 GHz
  - 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)

#### 802.11ac and 802.11n Capabilities
- 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

### Antenna
- Integrated omni-directional antennas (4.4 dBi gain at 2.4 GHz, 6.3 dBi gain at 5 GHz)

### Security
- WPA, WPA2-PSK, WPA2-Enterprise with 802.1X
- EAP-TTLS
- TKIP and AES encryption

### Environment
- Temperature: 0°C - 45°C (32°F - 113°F)
MV22 Indoor Varifocal Camera Specifications

In the Box
Quick start & installation guide
MV camera hardware
Wall mounting kit
Junction box adapter plate

Physical Characteristics
Dimensions 149mm x 97mm (diameter x height)
Varifocal lens (up to 3x optical zoom)
Weight without mounting plate 706g
Weight with mounting plate 842g
Female RJ45 Ethernet connector
Multicolor, multifunction status LED
Reset button

Ratings
IK08 vandal-resistance

Waranty
3 year hardware warranty with advanced replacement

Ordering Information
MV22-HW: Varifocal MV22 Indoor HD Dome Camera With 256GB 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 (coax converter)

Note: Each Meraki camera requires a license to operate

* Storage duration dependent on encoding settings and camera storage model.
** Browser support for H.264 decoding required.
MV72 Outdoor Varifocal Camera Specifications

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**Camera**
- 1/3” 4MP (2688x1520) progressive CMOS image sensor
- 256GB high endurance solid state storage
- 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°

**Shutter speed:**
- 1/30s to 1/32,000s

**Minimum illumination:**
- 0.18 Lux (standard recording) and 0.01 Lux (night mode)

**Built-in IR illuminators:**
- Effective up to 30m (98ft)

**Heating elements**

**Video**
- 1080p HD video recording (1920x1080) with H.264 encoding, up to 20fps
- Cloud augmented edge storage (locally stored video with metadata in the cloud)
- Optimized retention settings (scheduling and motion-based) for variable retention
- Up to 40 days of 24/7 continuous video storage per camera
- Direct live streaming with no client software (native browser playback)
- Stream video anywhere with automatic cloud proxy
- High dynamic range (HDR)

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

**Networking**
- 1x 10/100/1000 Base-T Ethernet (RJ45)
- Dual band WLAN with antenna diversity supporting 2.4GHz and 5GHz
- 802.11 a/b/g/n/ac
- DSCP traffic marking

**Power**
- Power consumption when not using heater: 12.95W maximum via 802.3af PoE
- Power consumption when using heater: 25.5W maximum via 802.3at PoE

**Features**
- Cloud managed with complete integration into the Meraki dashboard
- Plug and play deployment with self-configuration
- Dynamic day-to-night transition with IR illumination
- Noise optimized motion indexing engine with historical search
- Shared video wall with individual layouts supporting multiple cameras
- Selective export capability with cloud proxy (with watermarked timestamps)
- Highly granular view, review, and export user permissions with SAML integration
- Motion heat maps for relative hourly or day-by-day motion overview
- Motion alerts

**Wireless**
- 2.4 GHz 802.11b/g/n radio
- 5 GHz 802.11a/n/ac radio
- Supported frequency bands (country-specific restrictions apply):
  - 2.412 - 2.484 GHz
  - 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)

**802.11ac and 802.11n Capabilities**
- 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

**Antenna**
- Integrated omni-directional antennas (4.4 dBi gain at 2.4 GHz, 6.3 dBi gain at 5 GHz)

**Security**
- WPA, WPA2-PSK, WPA2-Enterprise with 802.1X
- EAP-TTLS
- TKIP and AES encryption

**Environment**
- Temperature: -40°C - 50°C (-40°F - 122°F)
MV72 Outdoor Varifocal Camera Specifications

In the Box
Quick start & installation guide
MV camera hardware
Wall mounting kit
Junction box adapter plate

Physical Characteristics
Dimensions 165mm x 103mm (diameter x height)
Varifocal lens (up to 3x optical zoom)
Weight without mounting plate 1247g
Weight with mounting plate 1353g
Female RJ45 Ethernet connector
Multicolor, multifunction status LED
Reset button

Ratings
IK10 vandal-resistance
IP67 weather-proofing

Warranty
Warranty 3 year hardware warranty with advanced replacement

Ordering Information
MV72-HW: Varifocal MV72 Indoor HD Dome Camera With 256GB Storage
LIC-MV-X: Meraki MV Enterprise License (X = 1, 3, 5, 7, 10 years)
MA-INJ-4-XX: Meraki 802.3at Power over Ethernet injecto (XX = US, EU, UK, or AU)
MA-PWR-MV-LV: Low voltage 12VDC/24VAC input PoE injector for MV cameras (coax converter)

Note: Each Meraki camera requires a license to operate

* Storage duration dependent on encoding settings and camera storage model.
** Browser support for H.264 decoding required.
*** Operation of the MV72 under 0°C will make use of the internal heater.
### Mounting Accessories Specifications

**Wall Mount Arm for MV72**
- Wall mount for attaching camera perpendicular to mounting surface
- Includes pendant cap
- Supported Models: MV72
- Dimensions (wall bracket): 160.0mm L x 104.0mm W x 286.0mm D
- Combined weight: 0.67kg
- MA-MNT-MV-10

**Pole Mount**
- Can be used in conjunction with MA-MNT-MV-10 Wall Mount Arm
- Supported Models: MV72
- Dimensions: 163.5mm L x 107.6mm W x 34.0mm D
- Combined weight: 0.289kg
- MA-MNT-MV-20

**Wall Mount Arm for MV12**
- Wall mount arm for attaching camera perpendicular to mounting surface
- Includes pendant cap
- Supported Models: MV12
- Dimensions (wall bracket): 91.3mm L x 94.0mm W x 302.3mm D
- Combined weight: 0.697kg
- MA-MNT-MV-30

**Wall Mount Bracket**
- Support models: MV22
- Dimensions: 48.0mm L x 130.0mm W x 156.2mm D
- Combined weight 0.503kg
- MA-MNT-MV-31