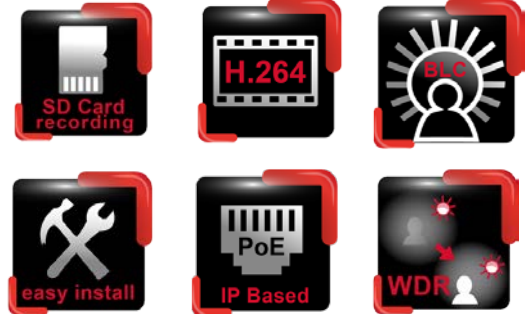


# MD2242

## 4MP HD Microdome IP Camera

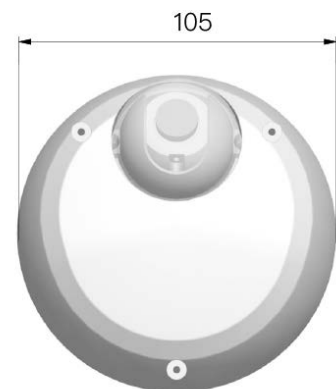


- ▶ Microdome IP camera
- ▶ High Dynamic Range
- ▶ Back light compensation
- ▶ Compact design and discreet low-profile form factor
- ▶ 4MP video resolution
- ▶ Easy to install



### Dimensions (unit in mm):

Ø105mm x 39mm



As with all M series cameras, the 4MP HD Dome IP Camera MD2242 incorporates Sense up+, a unique technology that delivers stunning video in low-light conditions. Utilizing intelligent image signal processing, auto gain control (AGC), and 3D Noise Reduction, the image of this model under demanding lighting conditions does not suffer from motion blur. The MD2242 is capable of producing 3 independent video streams, and different streams can be adjusted for different applications, depending on the individual user requirements.

## High Dynamic Range

A High Dynamic Range image is produced by interleaving two shutter lines to accommodate details of both the darkest and brightest areas. HDR can extend image visibility under high contrast lighting scenes and improve image quality.



## Back Light Compensation

Back Light Compensation (BLC) adjusts the exposure of the entire image to properly expose the subject of interest. Whether if the subject is moving toward left, right, up, down, or any direction in the screen, BLC will provide the perfect exposure for the subject in front of a strong back light.



## Sense Up+

Sense up+ is able to deliver outstanding video outputs in poor light conditions without experiencing motion blur. With this technology, you can see video more clearly during nighttime when sufficient lighting is lacking.



## 3D Noise Reduction

This function removes noise occurred in a video. Suppressing noise in low light conditions will retain details in a video and optimize the quality.



## Video Security App

Available on Android and iOS – LILIN Pro app provides security alarm push notification, real-time live viewing, and remote video playback



## SD Cards in Sync with NAV Software

The camera is designed with Micro SD/SDHC/SDXC card slots to provide video playback and recording saving. You can even synchronize an SD card with LILIN VMS (Video Management Software) – Navigator (NAV).



## ONVIF-compliant

Open Network Video Interface Forum (ONVIF) is a standard for physical IP based security products. MD2242 complies with ONVIF Profile S.



## Motion Detection

If properly set up, any motion in front of the camera will be detected and saved as an event. Motion in the selected area will provoke an alert.



## Tamper Detection

This camera automatically detects tampering or failure. Also, an action can be taken when the lens or field of view is partially or completely blocked.



## Alarm Detection

Alarm Detection is designed to provide the electronic detection of intruders.



## 4MP HD Microdome IP Camera (4MP @ 20 FPS)

### Video performance

|                   |                           |
|-------------------|---------------------------|
| Model#            | MD2242                    |
| Min. Illumination | 0.328 Lux at F2.0 (Color) |

### Power

|                   |                                                            |
|-------------------|------------------------------------------------------------|
| Power consumption | DC12V, 2.6W / PoE, 3.8W                                    |
| PoE               | IEEE 802.3af                                               |
| Power supply      | DC12V ±10%<br>Power over Ethernet (IEEE 802.3af compliant) |

### Sensor

|                     |                                       |
|---------------------|---------------------------------------|
| Sensor type         | 1/3" CMOS image sensor                |
| Total sensor pixels | 2688(H) x 1520 (V) = 4,085,760 pixels |

### Certifications

|     |                  |
|-----|------------------|
| CE  | Yes, EMI CLASS A |
| FCC | Yes, EMI CLASS A |

### PC requirements

|     |                                       |
|-----|---------------------------------------|
| CPU | Intel i3 or above                     |
| OS  | Windows 7, Windows 8, Windows 10      |
| RAM | 4GB or above, dedicated graphics card |

### Mechanical

|            |               |
|------------|---------------|
| Dimensions | Ø105mm x 39mm |
| Weight     | 250g          |

### Video streaming

|                   |                                                                                                                                               |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Video compression | H.264 High/ Main Profile, Motion JPEG                                                                                                         |
| Streaming         | RTP/HTTP, RTP/TCP, RTP/UDP, Multicast<br>3 configurable streams in H.264 and Motion JPEG, configurable frame rate, bandwidth<br>Codec and GOP |
| Bitrate           | 128Kbps – 12Mbps<br>Frame rate and bit rate controllable on-the-fly<br>VBR / CBR / GOP supported<br>Fixed bitrate mode, Smart H.264           |

### Network security

|                            |                                                      |
|----------------------------|------------------------------------------------------|
| Max number of online users | 10 user accounts available                           |
| Access                     | Multiple user access levels with password protection |
| Encryption                 | Base 64 HTTP encryption / Digest auth.               |
| IP address filter          | Yes                                                  |
| RTSP Authentication        | On / Off                                             |

### Integration

|                                |                                                                                                                                |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Mobile application             | Integrated to LILIN mobile app (LILIN Pro)<br>iPhone, iPad, Android support                                                    |
| Video management               | ONVIF Profile S<br>LILIN Navigator Enterprise 1.0 and 2.0<br>Third party VMS through LILIN HTTP API                            |
| SD card recording              | Support Micro SD/SDHC/SDXC (up to 128GB) card for circular recording (card is not included)                                    |
| Web browser                    | Microsoft® Internet Explorer® 9.0 and later                                                                                    |
| Firmware                       | Firmware upgrade via HTTP, and IP Scan                                                                                         |
| Alarm event triggers           | Motion / Tamper / Audio / Network lost detection                                                                               |
| Alarm event actions            | FTP / SMTP (SSL & TLS) / HTTP post / SD card / SAMBA / SNMP Trap / Push Service notification                                   |
| Intelligent Video Surveillance | Motion Detection, Tampering Detection, Advanced Motion Detection, Traffic Light Detection, Tripwire Detection, Object Counting |

### Environmental

|                       |                               |
|-----------------------|-------------------------------|
| Operating temperature | -25°C – +50°C (-13°F – 122°F) |
|-----------------------|-------------------------------|

### Lens

|               |        |
|---------------|--------|
| Focal length  | 3.6mm  |
| Iris          | F2.0   |
| Angle of view | H 88°  |
|               | V 47°  |
|               | D 106° |

### Video resolutions (H x V)

|                     |                                                                                                                                |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------|
| 4MP                 | 2688 x 1520                                                                                                                    |
| 3.6MP               | 2560 x 1440                                                                                                                    |
| 3MP                 | 2304 x 1296                                                                                                                    |
| 2MP                 | 1920 x 1080                                                                                                                    |
| 1.3MP               | 1280 x 960                                                                                                                     |
| 1MP                 | 1280 x 720                                                                                                                     |
| D1                  | 720 x 480, 720 x 576                                                                                                           |
| VGA                 | 640 x 480                                                                                                                      |
| CIF                 | 352 X 240                                                                                                                      |
| Maximum frame rate  | H.264: up to 20 FPS @ 2688 x 1520, up to 30 FPS @ 1920 x 1080<br>MJPEG: up to 20 FPS @ 2688 x 1520, up to 30 FPS @ 1920 x 1080 |
| Alarm weighted mode | Yes                                                                                                                            |

### Video functions

|                                  |                                                                                                                               |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Scanning system                  | Progressive scan                                                                                                              |
| Adjustable picture setting       | Contrast, Brightness, Saturation                                                                                              |
| White balance                    | Auto / Tungsten / Indoor / Fluorescents1 / Fluorescents2 / Outdoor1 / Outdoor2 / Customized adjustable red gain and blue gain |
| Shutter                          | 1/30(1/25)s to 1/20000s                                                                                                       |
| 2D WDR                           | Off / Auto / x2 / x3 / x4 (in normal mode)                                                                                    |
| High dynamic range               | Up to 100dB (in HDR mode, 2 shutter line interleave)                                                                          |
| 3D noise reduction               | Off / 1 to 32 selectable                                                                                                      |
| Privacy masking                  | Off / On (4 independent areas)                                                                                                |
| Sense Up                         | Off / 1 frame / 2 frames                                                                                                      |
| Sense Up+                        | Yes                                                                                                                           |
| Digital Zoom                     | Yes                                                                                                                           |
| Auto gain control                | 36 dB variable gain                                                                                                           |
| D/N quality setting              | Yes                                                                                                                           |
| Other functions                  | Sharpness, Hue, Image flip, Image mirror                                                                                      |
| Lens Distortion Correction (LDC) | Yes                                                                                                                           |

### Network

|                  |                                                                                                                                                                                                   |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ethernet         | 10Base-T / 100Base-TX, RJ-45                                                                                                                                                                      |
| Connectivity     | ONVIF Profile S / LILIN API (CGI)                                                                                                                                                                 |
| User accounts    | 10 simultaneous users                                                                                                                                                                             |
| OSD              | Text over date, time, and camera name                                                                                                                                                             |
| CPU, Memory      | Embedded SoC ARM Cortex-A9, 600MHz, 256MB DDR3, 32MB flash memory                                                                                                                                 |
| Video display    | LILIN Universal ActiveX, LILIN Java Applet & HTML5                                                                                                                                                |
| OS               | Embedded Linux 3.10                                                                                                                                                                               |
| Audio            | One way Audio, G.711 u-law / PCM / AAC, Built-in Microphone                                                                                                                                       |
| Protocols        | IPv4, IPv6, TCP, UDP, HTTP, HTTPS, SMTP, MQTT, QoS, SNMP, SNMP Trap, NTP, DDNS, UPnP, FTP, ARP, DHCP, PPPoE, DNS, RTSP, RTCP, Telnet, ICMP, IGMP, ONVIF Profile S, SDDP, Bonjour, 802.1x, SSL/TLS |
| Languages        | English, Traditional Chinese, Simplified Chinese, Spanish, Italian, Turkish, Russian, Korean, French, Arabic, Hungarian, Japanese                                                                 |
| Multi IP address | Yes                                                                                                                                                                                               |

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