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## 1080P Fixed IP Dome Camera



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## Features

- Full HD 2 megapixel CMOS image sensor
- 1080P True H.264 AVC High Profile video compression
- H.264 and Motion JPEG multi-profile video streaming
- Smart H.264 supported
- 3D noise reduction (MCTF)
- 2D WDR function
- HDR function up to 105dB
- Digital PTZ supported
- IVS supported
- Tampering / Motion detection alarm function
- Built-in highly sensitive microphone
- One-way audio supported
- ONVIF Profile S supported

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## Description

As with all M series cameras, the 1080p HD Dome IP Camera MD2222 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 MD2222 is capable of producing three independent video streams, and different streams can be adjusted for different applications, depending on the individual user requirements.

## Specifications

| Model                                     | MD2222E2  |
|---|---|
| Min. illumination/Low Light Mode (Colour) | 0.07 Lux at F1.8  |
| Starting Temperature                      | 0°C – +50°C (32°F – 122°F)                                  |
| Operating temperature                     | -40°C – +50°C (-40°F – 122°F)                               |
| Storage temperature                       | -25°C – +60°C (-13°F – 140°F)                               |
| Operating humidity                        | 0% – 90% RH   |
| Power Supply                              | DC12V ±10% / PoE (IEEE 802.3af compliant)                   |
| Power Consumption                         | DC12V, 2.6W / PoE, 3.8W                                     |
| Lens                                      | 2.8mm   |
| Iris                                      | F1.8  |
| Angle of View                             | 118.6° (H) 67.4° (V) 135.6° (D)                             |
| Pick Up Element                           | 1/2.7" CMOS image sensor                                    |
| Effective pixels                          | 1920 (H) x 1080 (V) = 2,097,664 (Pixels)                    |
| CE  | Yes, EMI CLASS A  |
| FCC                                       | Yes, EMI CLASS A  |
| CPU                                       | Intel® Core™ i3 or higher grade                             |
| OS  | Windows 7 or above  |
| RAM                                       | 4GB or above, Dedicated Graphics Card                       |
| Web browser                               | Microsoft® Internet Explorer® 9 or above                    |
| Dimensions                                | Ø 105 × 39 (H) mm   |
| Weight                                    | 250g  |
| Audio                                     | One-way Audio, G.711 u-law / PCM / AAC, Built-in Microphone |

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|-------------------------|--|
| Video Compression       | H.264 main and high profile, Motion JPEG   |
| Video streaming         | RTP/HTTP, RTP/TCP, RTP/UDP, Multicast 3 configurable streams in H.264 and Motion JPEG, configurable frame rate and bandwidth |
| Number of streams       | 3  |
| Video bitrate           | 128Kbps – 12Mbps; Frame rate and bit rate controllable on-the-fly; VBR / CBR / GOP supported; Fixed bitrate; Smart H.264     |
| Encryption              | Base64 HTTP encryption, HTTPS encryption   |
| Authentication          | Digest HTTP authentication, RTSP authentication, DDNS via HTTPS  |
| Address Filter          | IP address filter  |
| Access                  | Multiple user access levels with password protection   |
| User accounts           | 10 simultaneous users  |
| Multi IP address        | Yes  |
| Resolution              | 2MP(1920 × 1080), 1.3MP(1280 × 960), 1MP(1280 × 720), D1(720 × 480, 720 × 576), VGA(640 × 480), CIF(352 × 240)               |
| Frame Rates             | H.264 / MJPEG : up to 30 fps @ 1920 × 1080   |
| Scanning System         | Progressive Scan   |
| White Balance           | Auto / Tungsten / Indoor / Fluorescents1 / Fluorescents2 / Outdoor1 / Custom   |
| Electrical Shutter      | 1/30(1/25)s – 1/30000s   |
| Sense Up                | Off / 1 Frame / 2 Frames   |
| Sense Up+               | Yes  |
| Auto Gain Control       | 42 dB Variable Gain  |
| S / N Ratio             | More than 50dB (AGC off)   |
| 3D Noise Reduction      | Off / 1 – 32 Selectable  |
| 2D WDR                  | Off / Auto / x2 / x3 / x4 (by normal mode)   |
| High Dynamic Range(HDR) | Up to 100dB (by HDR mode, 2 shutter line interleave)   |
| Privacy Masking         | Off / On (4 zones)   |

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| Image Effects              | Brightness, Contrast, Hue, Saturation, Sharpness, Mirror, Flip, Lens Distortion Correction   |
| Mobile phone               | Integrated to LILIN mobile app (LILIN Viewer), iPhone, iPad, Android support   |
| Video Management           | ONVIF Profile S, LILIN Navigator Enterprise 2.0, Third party VMS through LILIN HTTP API  |
| SD Card (recording)        | Support Micro SD/SDHC/SDXC card for circular recording (card is not included)  |
| Firmware                   | Firmware update via HTTP and IP Scan; Firmware available at website  |
| IVS Basic 1.0              | Motion Detection, Tampering Detection, Advanced Motion Detection, Traffic Light Detection, Tripwire Detection, Object Counting   |
| Alarm event triggers       | Motion / Tamper / Audio / Network lost detection   |
| Alarm event actions        | FTP / SMTP / HTTP post / SD card / SAMBA / SNMP Trap / Push Service notification   |
| Languages                  | English, Traditional Chinese, Simplified Chinese, Spanish, Italian, Turkish, Russian, Korean, French, Arabic, Hungarian, Japanese  |
| Ethernet                   | 10/100 Mbps Base-T, RJ-45  |
| OSD                        | Text overlay for date, time, and camera name   |
| CPU.Memory                 | Embedded SoC ARM Cortex-A9, 600MHz, 256MB DDR3, 32MB flash memory  |
| Network OS                 | Embedded Linux 3.10  |
| Protocols                  | IPv4, IPv6, TCP, UDP, HTTP, HTTPS, SMTP, MQTT, QoS, NTP, DDNS, UPnP, FTP, ARP, DHCP, PPPoE, DNS, RTSP, RTCP, Telnet, ICMP, IGMP, ONVIF Profile S, SDDP, Bonjour, SSL/TLS |
| Max number of online users | 10 simultaneous users  |
| Video Display              | LILIN Universal ActiveX & HTML5  |