M series | IP Dome Camera

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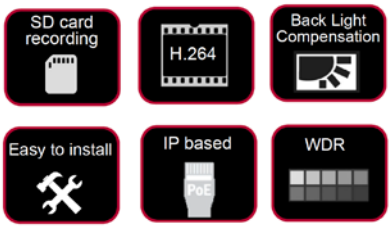
MD2222

1080p HD Microdome IP Camera



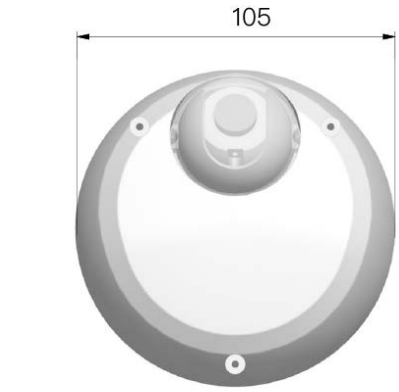
- Microdome IP camera
- High Dynamic Range
- Back light compensation
- Compact design and discreet low-profile form factor
- 1080p video resolution
- Easy to install

Dimensions (unit in mm):
Ø105mm x 39mm

ONVIF S

Full HD 1080

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 four independent video streams, and different streams can be adjusted for different applications, depending on the individual user requirements.



Product Features

High Dynamic Range

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

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.

Video Security App

LILINViewer is available for both Android and iOS devices. This application provides security alarm push notification, real-time live viewing, and remote video playback.

ONVIF-compliant

Open Network Video Interface Forum (ONVIF) is a standard for physical IP based security products. MD2222 complies with ONVIF Profile S.

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.

Back Light Compensation

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

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.

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).

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.

Alarm Detection

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

Technical Specifications

1080p HD Microdome IP Camera (1080p @ 30 FPS)

Video performance	
Model#	MD2222
Min. Illumination	0.15 Lux at F2.0 (Color)

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

Sensor	
Sensor type	1/2.7" CMOS image sensor
Total sensor pixels	1920(H) x 1080 (V) = 2,073,600 pixels

Certifications	
CE	Yes
FCC	Yes

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 3 configurable streams in H.264 and Motion JPEG, configurable frame rate , bandwidth Codec and GOP
Bitrate	128Kbps – 12Mbps Frame rate and bit rate controllable on-the-fly VBR / CBR / GOP supported Fixed bitrate

Network security	
User accounts	10 user accounts available
Access	Multiple user access levels with password protection
Encryption	Base 64 HTTP encryption / Digest auth.
IP address filtering	Yes
RTSP Authentication	On / Off

Integration	
Mobile application	Supports LILIN mobile app (LILIN Viewer) in both iOS and Android versions
Video management	ONVIF Profile S LILIN Navigator Enterprise 1.0 and 2.0 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, HTTP post, SD card, SAMBA
Intelligent Video Surveillance	Advanced motion detection, Tripwire detection, Semaphore + 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	96°
	V	51°
	D	115°

Video resolutions (H x V)	
1080p	1920 x 1080
1280x960	1280 x 960
720p	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 30 FPS @ 1920 x 1080, MJPEG : 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
Shutter	1/30(1/25)s to 1/30000s
Back light compensation	On / Off
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
ROI	Yes
Auto gain control	42 dB variable gain
D/N quality setting	Yes
Other functions	Sharpness, Hue, Image flip, Image mirror

Network	
Ethernet	10Base-T / 100Base-TX, RJ-45
Connectivity	ONVIF Profile S / LILIN API (CGI)
Users	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
One-way audio supported	G.711 / PCM (Built-in microphone)
Protocols	IPv4, IPv6, TCP, UDP, HTTP, HTTPS, SMTP, SIP, MQTT, QoS, NTP, DDNS, UPnP, FTP, ARP, DHCP, PPPoE, DNS, RTSP, RTCP, Telnet, ICMP, IGMP, ONVIF Profile S, SDDP
Languages	English, Traditional Chinese, Simplified Chinese, Spanish, Italian, Turkish, Russian, Korean, French, Arabic, Hungarian, Japanese
Multi IP address	Yes

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