

# Synectics HD IP Micro Dome

## SY-VRMDF4-2MP

**HD IP Micro Dome, with E-mark type approval, ideal for use in mobile applications.**



The Synectics HD IP Micro Dome is equipped with a full HD progressive scan CMOS sensor supplied in an IP66 rated enclosure providing outstanding video resolution at up to 2 megapixels. E-mark type approved for use in motor vehicles, including buses, the Micro Dome is ideal for mobile applications.

For added flexibility, the Micro Dome supports both H.264 and MJPEG

standards up to quad streaming and features full HD streaming at 13/15fps and full HD at 13/15fps + D1 real-time dual streaming.

Optional on-board SD card internal storage offers an added layer of resiliency in the event of network failure. The device can be configured to record locally for several hours to protect against IP video loss.

### Features

- 2MP Progressive Scan Sensor
- Quad Stream Support
- 1280x720 + D1 Real-Time Dual Streaming
- Micro SD Support<sup>1</sup>
- Multi-Language Support
- Wide Dynamic Range (WDR)
- Tampering Alarm

<sup>1</sup> Optional

# Specifications

CAMERA		S-VRMDF4-2MP
Image Sensor	1/2.7" Progressive Scan CMOS	
Effective Pixels	1920(H) x 1080(V)	
Shutter Speed	1 ~ 1/10,000 sec	
Minimum Illumination	0.1 lux (Colour)	
LENS		
Lens Type / FOV	Fixed focal / 71.8°	
Lens Mount	M12	
Focal length	3.6mm	
F number	F1.8	
Iris	Fixed	
VIDEO COMPRESSION		
Compression	H.264 Baseline/Main/High Profile / MJPEG	
Output Streams	Up to 4 Simultaneous Uni-Cast Streams or Multi-Cast	
Data Rate	Stream 1: 64 to 8192 kb/s Streams 2-4: 64 to 2048 kb/s	
GOP Structure	Default 13/15 for Full HD 25/30 for Lower Resolutions	
STREAMING OPTIONS		
Single Streaming Mode	H.264 1920x1080 (13/15fps) / MJPEG 1920x1080 (13/15fps) <sup>2</sup>	
Dual Streaming Mode	H.264 + H.264/MJPEG 1280x720 (25/30fps) + D1 (25/30fps) <sup>2</sup>	
Triple Streaming Mode	H.264 + H.264 + H.264/MJPEG 1920x1080 (13/15fps) + 1280x720 (13/15fps) + D1 (25/30fps) <sup>2</sup>	
Quad Streaming Mode	H.264 + H.264 + H.264 + H.264/MJPEG 1920x1080 (13/15fps) + 1280x720 (13/15fps) + D1 (25/30fps) + CIF (25/30fps) <sup>2</sup>	
Resolutions	Full HD 1080P / SXGA / HD 720P / XGA / SVGA / D1 / VGA / CIF <sup>2</sup>	

OPERATION		
Image Setting	Brightness	Manual
	Exposure	Auto / Manual
	Sharpness	Manual
	Contrast	Manual
	White Balance	Auto / Manual
	Saturation	Manual
	Hue	Manual
	Backlight Compensation	On / Off
	Digital Zoom	Up to 8x
	WDR	On / Off
	Noise Reduction	2D / 3D
	Motion Detection	On / Off / Schedule. 4 Windows
	Privacy Mask	5 Masks Configurable
	Privacy Mask Type	Colour
	Day / Night	Colour / Mono Digital Day / Night
Tampering Alarm	Yes	
Image Rotation	Yes	
Event Notification	HTTP / FTP / SMTP	
Multiple Languages	English / French / German / Italian / Japanese / Korean / Portuguese / Russian / Simplified Chinese / Spanish / Traditional Chinese	
ENVIRONMENTAL		
Environment	IP66	
Operating Temperature	-10°C ~ 50°C (14° ~ 122° F)	
Humidity	10% ~ 90%, No Condensation	
NETWORK		
Interface	RJ-45, 10/100 Mbps Ethernet	
Protocol	IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP, DHCP, PPPoE, UPnP, IGMP, SNMP, QoS, ONVIF, NTP	
Password Levels	User and Administrator	
Security	HTTPS / IP Filter / IEEE 802.1x	
Supported Internet Browsers	Internet Explorer (6.0+) / Chrome / Firefox / Safari	
User Accounts	20	

MECHANICAL	
Connectors	Ethernet RJ45
	Power 5.5mm Barrel Connector
	Micro SD (Internal) 32GB Supported / Class 10 MLC Flash Recommended
GENERAL	
Power Source	DC12V / PoE.
Power Consumption	3.5W
PD Class	0 (15.4W)
PSE	1
Regulatory	CE / e Mark E24 10R-041441 / FCC / RoHS
Dimensions	Ø 110.2 x 47.7 mm (Ø 4.3 x 1.9 in)
Weight	180 g (0.40 lb)
PART CODES	
SYVRMDF4-2MP	Full HD 3.6mm Micro Dome

<sup>2</sup> Other resolutions / frame rates are configurable.