

MV2-D2048x1088-C01-3D06-G1

The camera MV2-D2048x1088-C01-3D06-G1 is based on the CMOSIS CMV2000 V3 CMOS image sensor



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Features

- CMOSIS CMV2000 V3 image sensor
- 2048 x 1088 pixel resolution
- Good NIR spectral response
- Suitable for standard and low light applications
- Up to 18540 profiles per second (pps) @ 2048 x 11 resolution
- Global shutter

- Available in monochrome, NIR and color
- Extended sensor and camera features
- Up to 10bit greyscale resolution
- OEM solution available
- GigEVision interface







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or typographical errors.

Quantum Efficiency Image Sensor

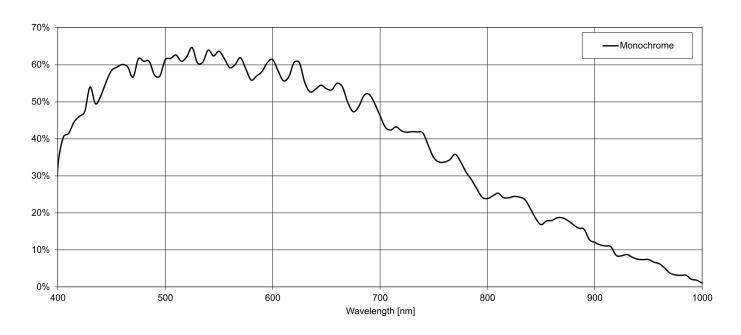


Image Sensor Specifications

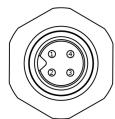
Manufacturer / Type	CMOSIS, CMV2000		
Technology	CMOS		
Optical format	2/3"		
Optical diagonal	12.76mm		
Resolution	2048 x 1088		
Pixel size	5.5µm x 5.5µm		
Active optical area	11.26mm x 5.98mm		
Dark current	125e-/s		
Read out noise	13e-		
Full well capacity / SNR	11ke- / 105:1		
Spectral range	Monochrome: 330 to 930nm (to 10% of peak responsivity)		
Responsivity	Monochrome: 1200 x 10 ³ DN / (J/m ²) @ 540nm / 8bit		
Quantum Efficiency	Monochrome: < 57%		
Optical fill factor	42% without micro lenses		
Dynamic range	60dB		
Characteristic curve	Linear, Piecewise linear		
Shutter mode	Global shutter		

Camera Specifications

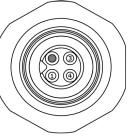
Interface	GigE		
Frame rate	18540pps		
Pixel clock	n/a		
Camera taps	n/a		
Greyscale resolution	8bit		
Fixed pattern noise (FPN)	< 1DN RMS @ 8Bit		
Exposure time range	6µs - 349ms		
Analog gain	yes		
Digital gain	0.1 to 15.99 (FineGain)		
Trigger Modes	Free running (non triggered), external Trigger, SWTrigger		
Features	Configurable region of interest (ROI), Decimation in y-direction, 2 look-up		
	tables (12-to-8Bit) on user-defined image region (Region-LUT), Constant		
	frame rate independent of exposure time, Temperature monitoring of		
	camera, Camera informations readable over SDK, Ultra low trigger delay		
	and low trigger jitter, Extended trigger input and strobe output functionality,		
	Status line in picture, with Shaft Encoder		
Operation temperature / moisture	0°C + 50°C / 20% 80%		
Storage temperature / moisture	e temperature / moisture -25°C 60°C / 20% 95%		
Power supply	+12VDC (-10%) +24VDC (+10%)		
Power consumption	< 4.2W		
Lens mount	C-Mount		
I/O Inputs	2x Opto-isolated		
I/O Outputs	puts 1x Opto-isolated		
Dimensions	40 x 40 x 59.1mm³		
Mass	150 g		
Connector I/O (Power)	O (Power) Binder 4-pin (I/O); Binder 3-pin (Power); mating plug M5 x 0.5, Series 707		
Connector Interface	RJ-45		
Conformity	CE / RoHS / WEEE		
IP Code	IP40		

Connectors

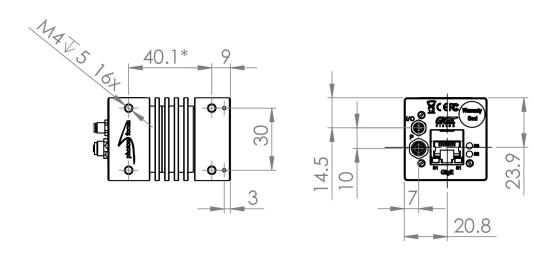
Pin	I/O Type	Name	Description I/O Connector
1	1	ISO_IN0	Trigger input 0 (opto-isolated)
2	PWR	ISO_GND	I/O GND 0V
3	0	ISO_OUT	Strobe output (opto-isolated)
4	1	ISO_IN1	Trigger input 1 (opto-isolated)

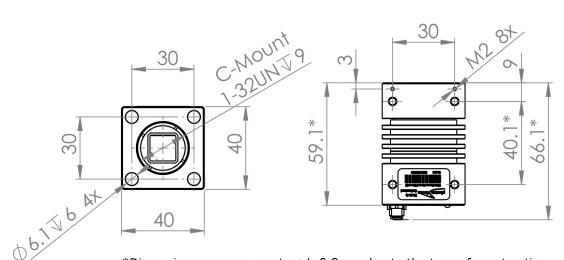


Pin	I/O Type	Name	Description Power Connector
1	PWR	CAMERA_PWR	Camera Power
n.a.	n.a.	not connected	Not connected pin
3	PWR	CAMERA_GND	Camera GND
4	n.a.	Reserved	Do not connect



Dimensions





*Dimensions may vary up to +/- 0.8mm due to the type of construction

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Explanation

DN DigitalNumber (equals to LSB)

e- Electrons

Order Information

MV2-D2048x1088-C01-3D06-G1

BW model

Compatibility



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