

MV0-D2048x1088-C01-3D06-768-G2

The camera MV0-D2048x1088-C01-3D06-768-G2 is based on the CMOSIS CMV2000 V3 CMOS image sensor

Features

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

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







www.photonfocus.com 1/5

Quantum Efficiency Image Sensor

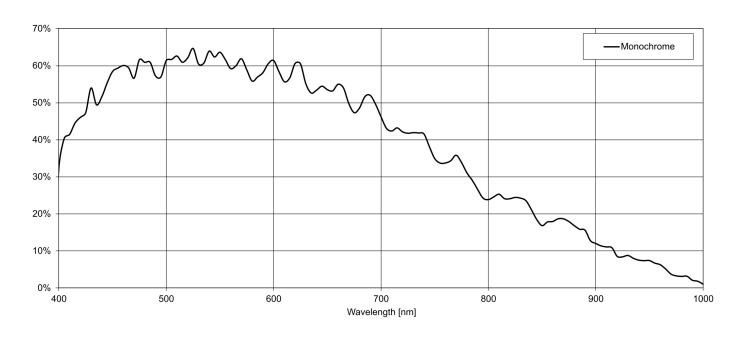


Image Sensor Specifications

Manufacturer / Type	CMOSIS, CMV2000		
Technology	CMOS		
Optical format	2/3"		
Optical diagonal	12.75mm		
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		
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www.photonfocus.com 2/5

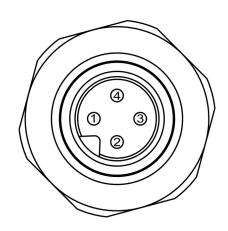
Camera Specifications

Interface	GigE		
Frame rate	18540fps		
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), Up to 8 regions of interest (MROI),		
	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, Crosshairs overlay on the image, 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	-25°C 60°C / 20% 95%		
Power supply	PoE (compliant according to IEEE 802.3af standard Class: 2)		
Power consumption < 4.2W			
Lens mount	C-Mount		
I/O Inputs	2x Opto-isolated		
I/O Outputs	1x Opto-isolated		
Dimensions	30 x 30 x 54.7mm³		
Mass	75g		
Connector I/O (Power)	Binder 4-pole (mating plug M5 x 0.5, Series 707)		
Connector Interface	X-coded M12		
Conformity	CE / RoHS / WEEE		
IP Code	IP40		

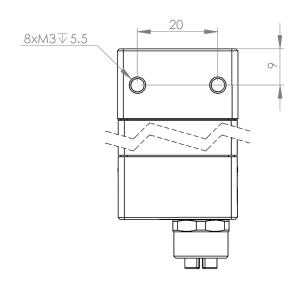
www.photonfocus.com 3/5

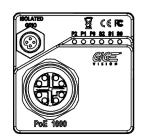
Connectors

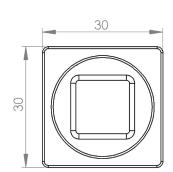
Pin	I/O Type	Name	Description
1	1	ISO_IN	Trigger input (opto-isolated)
2	PWR	ISO_GND	I/O GND 0V
3	0	ISO_OUT	Strobe output (opto-isolated)
4	n.a.	Reserved	Do not connect

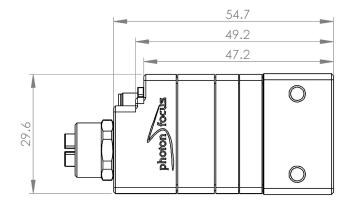


Dimensions









www.photonfocus.com 4/5

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Explanation

DN DigitalNumber (equals to LSB)

e Electrons

Order Information

MV0-D2048x1088-C01-3D06-768-G2 BW model

Compatibility







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www.photonfocus.com 5/5