

MV0-D1984-O01-3D06-G2

The camera MV0-D1984-O01-3D06-G2 is based on the ON Semiconductor PYTHON2000 CMOS image sensor



Web site: www.adept.net.au

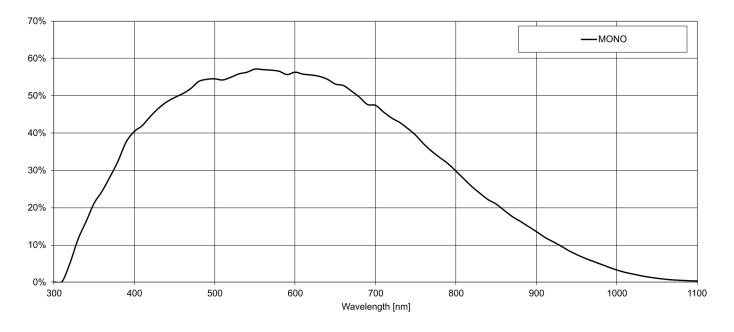
Features

- ON Semiconductor PYTHON2000 CMOS image sensor
- 1984 x 1264 pixel resolution
- Good NIR spectral response
- Suitable for standard and low light applications
- Up to 7900 profiles per second (pps) @ 640 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 (PoE)







Quantum Efficiency Image Sensor

Image Sensor Specifications

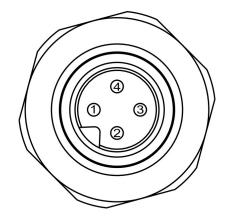
Manufacturer / Type	ON Semiconductor, PYTHON2000		
Technology	CMOS		
Optical format	2/3"		
Optical diagonal	11.29mm		
Resolution	1984 x 1264		
Pixel size	4.8µm x 4.8µm		
Active optical area	9.52mm x 6.07mm		
Dark current	9.3e-/s		
Read out noise	10.7e-		
Full well capacity / SNR	10ke- / 100:1		
Spectral range	Monochrome: 330 to 930nm (to 10% of peak responsivity)		
Responsivity	Monochrome: 943 x 103 DN / (J/m2) @ 540nm / 8bit		
Quantum Efficiency	Monochrome: < 57%		
Optical fill factor	n/a		
Dynamic range	60dB		
Characteristic curve	Linear		
Shutter mode	Global shutter		

Camera Specifications

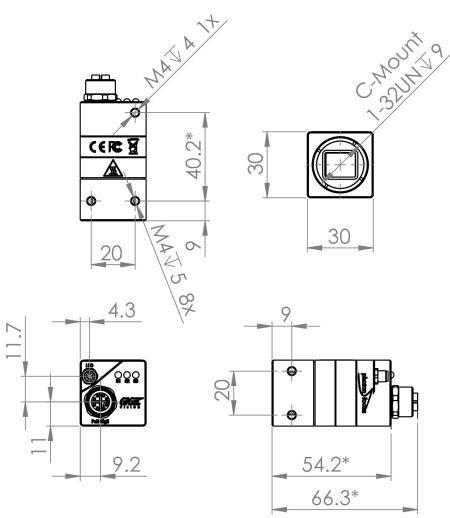
Interface	GigE		
Frame rate	7900pps		
Pixel clock	n/a		
Camera taps	n/a		
Greyscale resolution	8bit		
Fixed pattern noise (FPN)	< 1DN RMS @ 8Bit		
Exposure time range	10µs - 419ms		
Analog gain	yes		
Digital gain	0.1 to 15.99 (FineGain)		
Trigger Modes	Free running (non triggered), external Trigger, 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 adjustable by software, 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 54.9mm ³		
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		

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



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

MV0-D1984-O01-3D06-G2

Explanation

DN DigitalNumber (equals to LSB)

e⁻ Electrons

Order Information

MV0-D1984-O01-3D06-G2

Compatibility



Photonfocus AG Bahnhofplatz 10 CH-8853 Lachen SZ Switzerland

Phone: +41 55 451 00 00 www.photonfocus.com info@photonfocus.com BW model

Generated on: 2023-05-30