

OEM2-D1984-O01-3D06-G1

The camera OEM2-D1984-O01-3D06-G1 is based on the ON Semiconductor PYTHON2000 CMOS image sensor



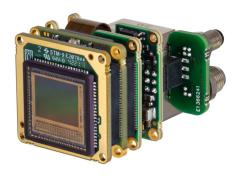
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Features

- 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 and NIR
- Extended sensor and camera features
- Up to 10bit greyscale resolution
- GigEVision interface







Generated on: 2023-06-08

or typographical errors.

Quantum Efficiency Image Sensor

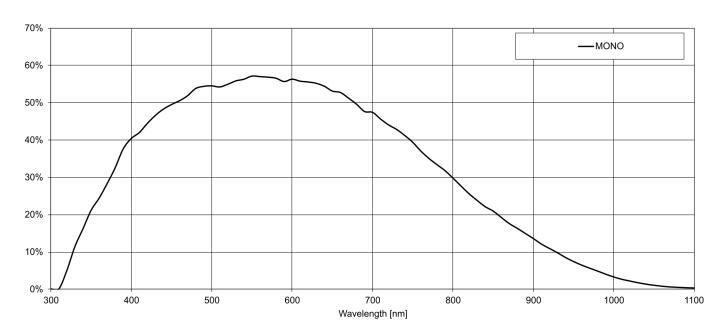


Image Sensor Specifications

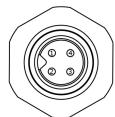
Manufacturer / Type	ON Semiconductor, PYTHON2000		
Technology	CMOS		
Optical format	2/3"		
Optical diagonal	11.29mm		
Resolution	1984 x 1264		
Pixel size	4.8μm x 4.8μm		
Active optical area	9.52mm x 6.07mm		
Dark current	9.3e-/s		
Read out noise	10.7e-		
Full well capacity / SNR	10ke- / 100:1		
Spectral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

Camera Specifications

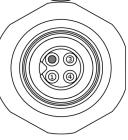
Interface	GigE		
Frame rate	7900pps		
Pixel clock	n/a		
Camera taps	n/a		
Greyscale resolution	8bit		
Fixed pattern noise (FPN)	< 1DN RMS @ 8Bit		
Exposure time range	10μs - 419ms		
Analog gain	yes		
Digital gain	0.1 to 15.99 (FineGain)		
Trigger Modes	Free running (non triggered), external Trigger, 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 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	-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	utputs 1x Opto-isolated		
Dimensions	26.5 x 31.6 x 48mm³		
Mass	150g		
Connector I/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

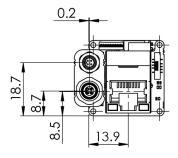
Pin	I/O Type	Name	Description I/O Connector
1	1	ISO_IN0	Trigger input 0 (opto-isolated)
2	PWR	ISO_GND	I/O GND 0V
3	0	ISO_OUT	Strobe output (opto-isolated)
4	1	ISO_IN1	Trigger input 1 (opto-isolated)

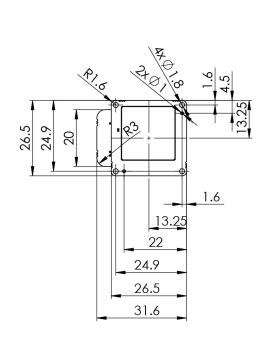


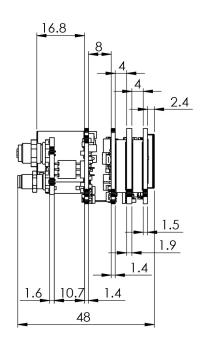
Pin	I/O Type	Name	Description Power Connector
1	PWR	CAMERA_PWR	Camera Power
n.a.	n.a.	not connected	Not connected pin
3	PWR	CAMERA_GND	Camera GND
4	n.a.	Reserved	Do not connect



Dimensions







OEM2-D1984-O01-3D06-G1

Explanation

DN DigitalNumber (equals to LSB)

- Electrons

Order Information

OEM2-D1984-O01-3D06-G1

BW model

Compatibility



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