

MV2-D1984-O01-3D06-G1

The camera MV2-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, NIR and color
- Extended sensor and camera features
- Up to 10bit greyscale resolution
- OEM solution available
- GigEVision interface



Quantum Efficiency Image Sensor

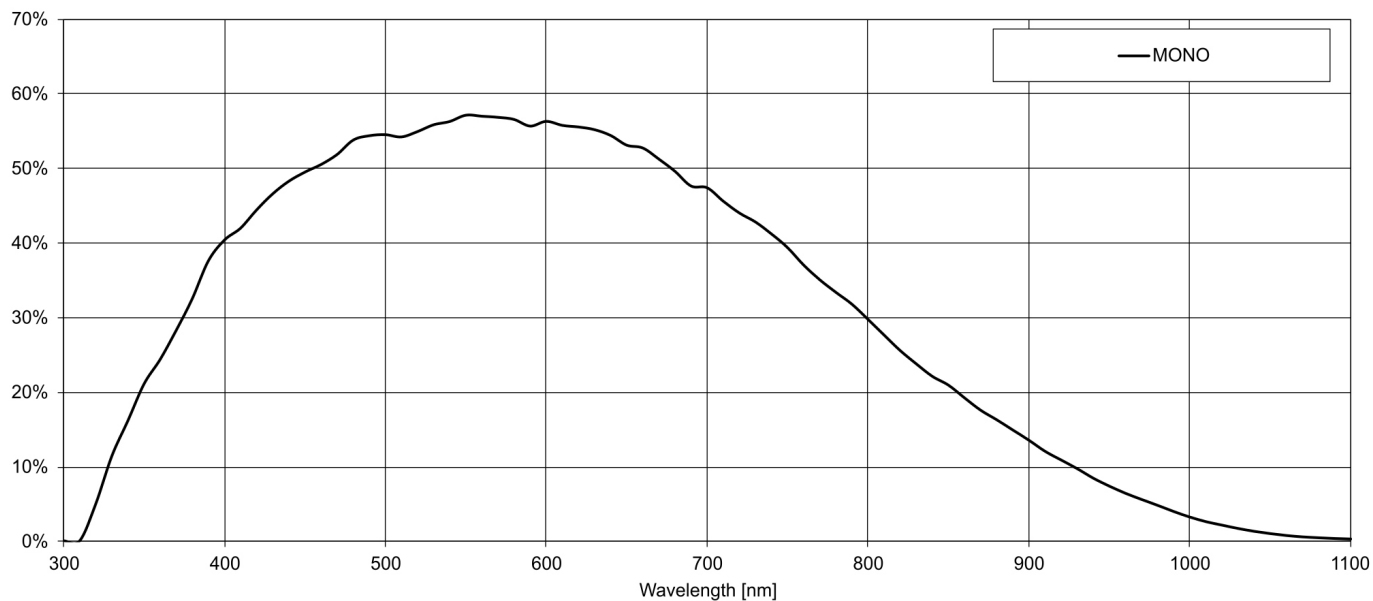


Image Sensor Specifications

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

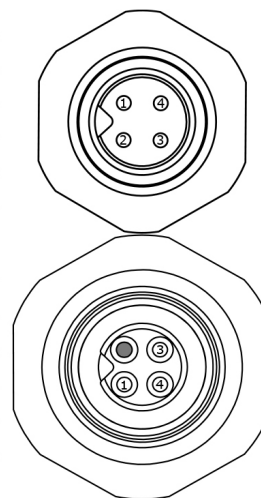
Camera Specifications

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	1x Opto-isolated
Dimensions	40 x 40 x 58.4mm ³
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

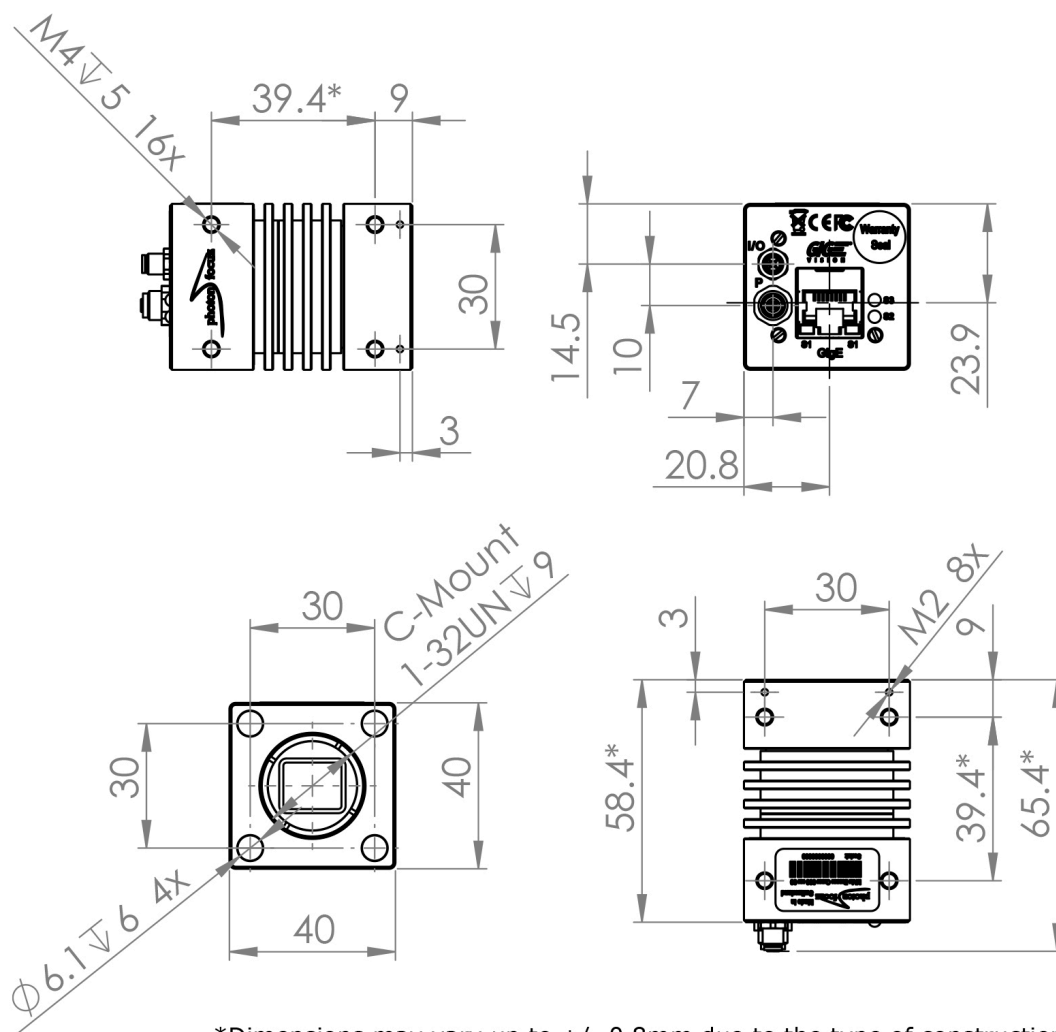
Connectors

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



Explanation

DN DigitalNumber (equals to LSB)

e⁻ Electrons

Order Information

MV2-D1984-O01-3D06-G1

BW model

Compatibility



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