

# MV0-D2448-S01-240-G2

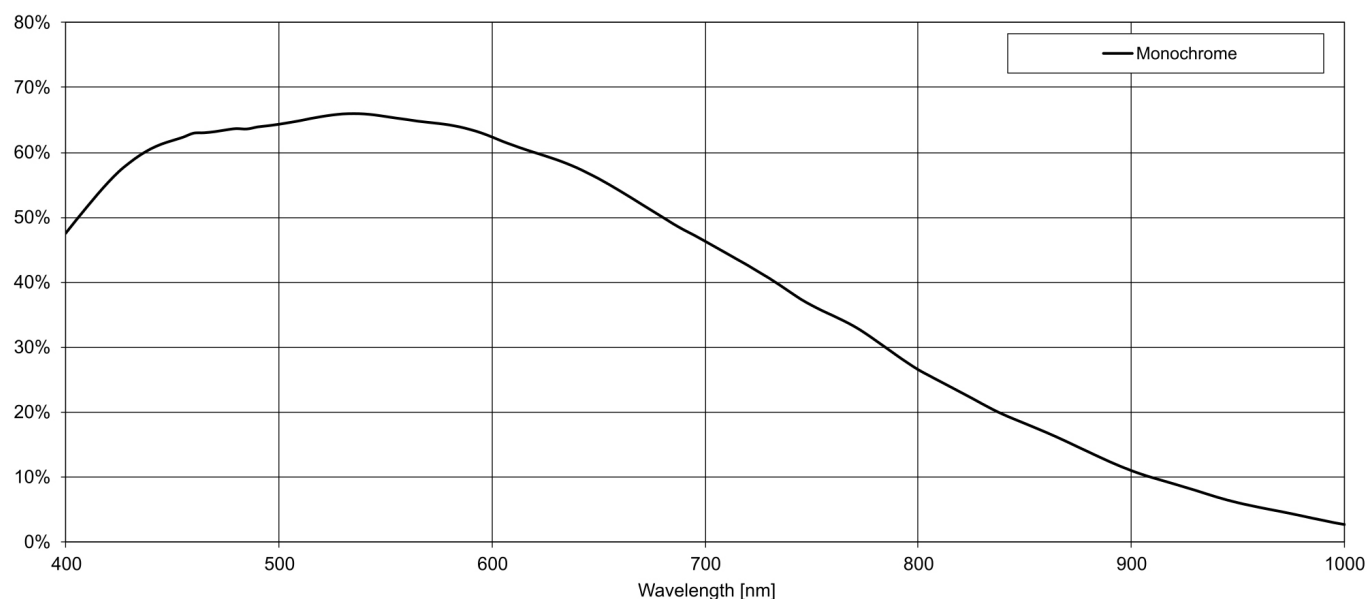
The camera series MV0-D2448-S01-240-G2 is based on the SONY IMX250 CMOS image sensor

## Features

- SONY IMX250 CMOS image sensor
- 2448 x 2048 pixel resolution
- Good NIR spectral response
- Suitable for standard and low light applications
- Up to 22fps @ full 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)



## Quantum Efficiency Image Sensor



## Image Sensor Specifications

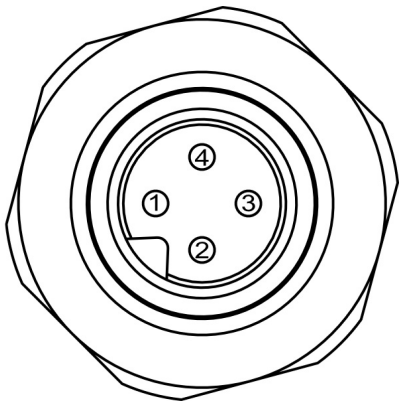
Manufacturer / Type	Sony, IMX250
Technology	CMOS
Optical format	2/3"
Optical diagonal	11.01mm
Resolution	2448 x 2048
Pixel size	3.45µm x 3.45µm
Active optical area	8.45mm x 7.07mm
Dark current	1e- (1/30 s storage)
Read out noise	3e-
Full well capacity / SNR	10.5ke- / 102:1
Spectral range	Monochrome: 360 to 900nm (to 10% of peak responsivity)
Responsivity	Monochrome: 500 x 10 <sup>3</sup> DN / (J/m <sup>2</sup> ) @ 540nm / 8bit
Quantum Efficiency	Monochrome: < 57% Color: < 45%
Optical fill factor	n/a
Dynamic range	71dB
Characteristic curve	Linear
Shutter mode	Global shutter

## Camera Specifications

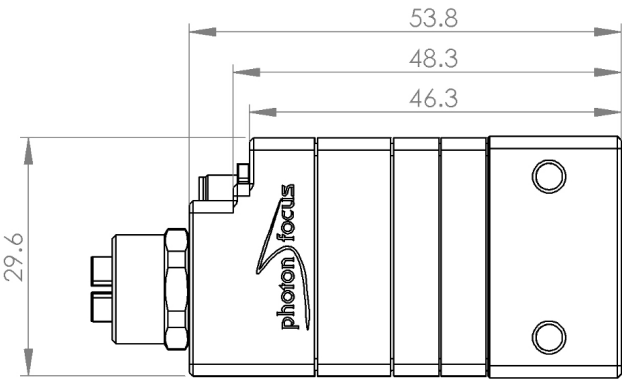
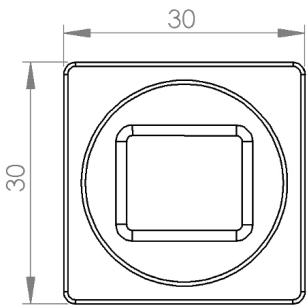
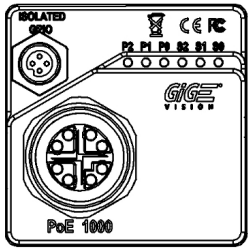
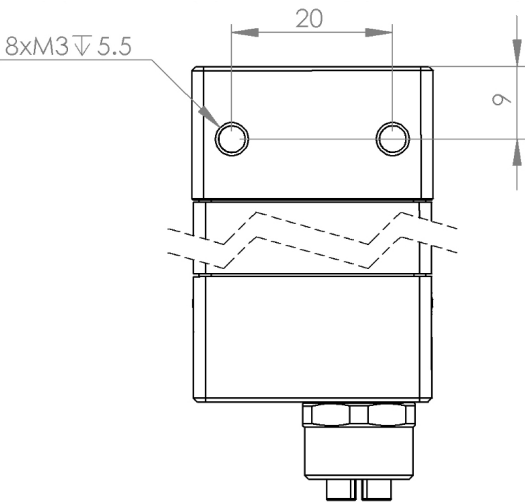
Interface	GigE
Frame rate	22fps
Pixel clock	n/a
Camera taps	n/a
Greyscale resolution	8Bit / 10Bit
Fixed pattern noise (FPN)	< 1DN RMS @ 8Bit
Exposure time range	24.87µs - 559ms
Analog gain	yes
Digital gain	0.1 to 15.99 (FineGain)
Trigger Modes	Free running (non triggered), external Trigger, SWTrigger
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
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 53.8mm <sup>3</sup>
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	I	ISO_IN	Trigger input (opto-isolated)
2	PWR	ISO_GND	I/O GND 0V
3	O	ISO_OUT	Strobe output (opto-isolated)
4	n.a.	Reserved	Do not connect



Dimensions



## Explanation

DN DigitalNumber (equals to LSB)

e<sup>-</sup> Electrons

## Order Information

MV0-D2448-S01-240-G2

BW model

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## Compatibility



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