

Manta G-319 is a machine vision camera that incorporates the high quality Type 1/1.8 (8.9 mm diagonal) Sony IMX265 CMOS sensor with Pregius global shutter technology. At full resolution, this camera runs 37.6 frames per second.

### General

Model:	Manta G-319
Product series:	Manta
Status:	Available

### Sensor

Sensor type:	Area scan
Chroma:	Mono or Color
Spectrum:	Visible
Resolution:	2,064 × 1,544 (3.20 MP)
Sensor model:	Sony IMX265
Sensor architecture (material):	CMOS
Shutter type(s):	Global Shutter
Sensor size:	9 mm ø (Type 1/1.8)
Pixel size:	3.45 µm × 3.45 µm

### Pixel formats

Sensor bit depth:	8-bit or 12-bit
Monochrome pixel formats:	Mono8, Mono12Packed, Mono12
YUV pixel formats:	YUV411Packed, YUV422Packed, YUV444Packed
RGB pixel formats:	RGB8Packed, BGR8Packed
Bayer pixel formats:	BayerRG8, BayerRG12, BayerRG12Packed

### Imaging performance

Quantum efficiency @ 529 nm:	64 %
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### Timing and gain

Max. frame rate:	37
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## I/Os and power

Specific non-isolated lines:	1
Opto-isolated lines:	2 inputs, 2 outputs
Power supply:	8 to 30 VDC AUX or IEEE 802.3af PoE
Power consumption:	External power: 2.7 W at 12 VDC   Power over Ethernet: 3.1 W

## Operating conditions

Operating temperature (housing):	5 °C to 45 °C ambient (without condensation)
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## Mechanical properties

Body dimensions (L x W x H in mm):	86 × 44 × 29
Weight:	190 g

## On-board memory and FPGA

Image buffer (RAM):	128 MByte
Non-volatile memory (Flash):	1024 KByte

## Interfaces

Digital interface:	IEEE 802.3 1000BASE-T, IEEE 802.3af (PoE) optional
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# Quantum Efficiency



