

Manta G-235 is a machine vision camera that incorporates the high quality Type 1/1.2 (13.4 mm diagonal) Sony IMX174 CMOS sensor with Pregius global shutter technology. At full resolution, this camera runs 50.8 frames per second. With a smaller region of interest, higher frame rates are possible.

General

Model: Manta G-235

Product series: Manta

Status: Available

Sensor

Sensor type: Area scan

Chroma: Mono or Color

Spectrum: Visible

Resolution: 1,936 × 1,216 (2.40 MP)

Sensor model: Sony IMX174

Sensor architecture (material): CMOS

Shutter type(s): Global Shutter

Sensor size: 13.40 mm diagonal (Type 1/1.2)

Pixel size: 5.86 µm × 5.86 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

Output color space: 8-bit or 12-bit

Imaging performance

Quantum efficiency @ 529 nm: 70 %

Timing and gain

Max. frame rate: 50 fps

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: 2.8 W at 12 VDC Power over Ethernet: 3.3 W

Operating conditions

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

Mechanical properties

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

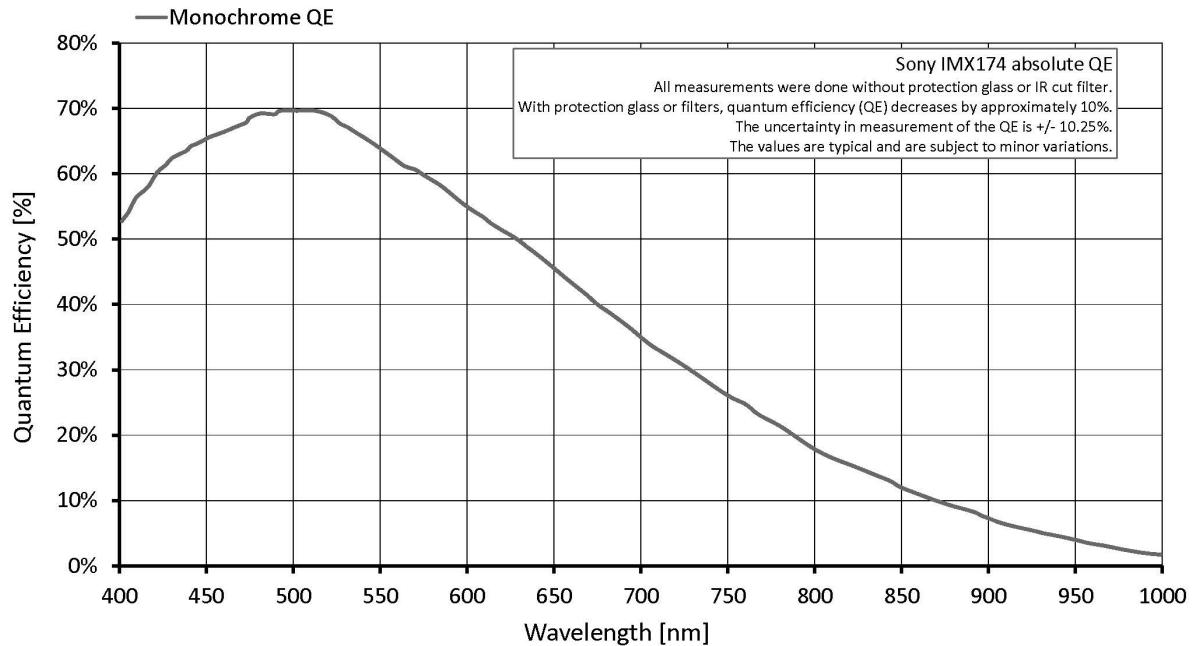
On-board memory and FPGA

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

Interfaces

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

Quantum Efficiency



Technical Drawing

