

Manta

Manta G-1620

Manta G-1620 is a 16.2 megapixel machine vision camera with a GigE compliant Gigabit Ethernet port and Hirose I/O port. Manta G-1620 incorporates the high quality Type 1.1 (16.8 mm diagonal) Sony 4th generation IMX542 back-illuminated CMOS sensor with Pregius S global shutter technology.

General

Model:	Manta G-1620
Product series:	Manta
Status:	Available

Sensor

Sensor type:	Area scan
Chroma:	Mono or Color
Spectrum:	Visible
Spectral range:	300 nm to 1100 nm
Resolution:	5,328 × 3,040 (16.20 MP)
Sensor model:	Sony IMX542
Sensor architecture (material):	CMOS
Shutter type(s):	Global Shutter
Sensor size:	17.6 mm ø (Type 1.1)
Pixel size:	2.74 µm × 2.74 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:	69 %
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Timing and gain

Max. frame rate: 7

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: 3.3 W at 12 VDC | Power over Ethernet: 3.9 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 × 44 × 29

Weight: 190 g

On-board memory and FPGA

Image buffer (RAM): 128 MByte

Interfaces

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

Quantum Efficiency



