Allied Vision



Prosilica GT

Prosilica GT 5400

Prosilica GT5400 is a large format camera equipped with a GigE Vision compliant Gigabit Ethernet port and Hirose I/O port. This camera incorporates the second generation Sony IMX387 Exmor CMOS sensor with Pregius global shutter technology.

General

Model	Prosilica GT 5400
Product series	Prosilica GT
Status	Available

Sensor

Sensor type	Area scan
Chroma	Color, Mono
Spectrum	Visible
Resolution	5,472 × 3,084 (16.90 MP)
Sensor model	Sony IMX387
Sensor architecture (material)	cmos
Shutter type(s)	Global shutter (GS)
Sensor size	18.88 × 10.64 mm (21.7 mm, Type 4/3)
Pixel size	3.45 µm × 3.45 µm

Pixel formats

Sensor bit depth	12-bit
YUV pixel formats	YUV411Packed, YUV422Packed, YUV444Packed
RGB pixel formats	BGR8Packed, RGB8Packed
Bayer pixel formats	BayerRG12

Imaging performance

Quantum efficiency @ 529 nm	64 %

Timing and gain

Max. frame rate	7 fps

Timing and gain

Exposure time	31 µs to 171 s
Gain	0.0 dB to 40.0 dB

I/Os and power

Non-isolated lines	1 input, 2 outputs
Specific non-isolated lines	1
Opto-isolated lines	1 input, 2 outputs
Power supply	7 to 25 VDC AUX or IEEE 802.3at Type 1 PoE
Power consumption	External power: 5.2 W at 12 VDC | Power over Ethernet: 6.4 W

Operating conditions

Operating temperature (housing)	-20 °C to 50 °C (housing (without condensation))

Mechanical properties

Body dimensions (L x W x H in mm)	96 × 66 × 53
Weight	372 g

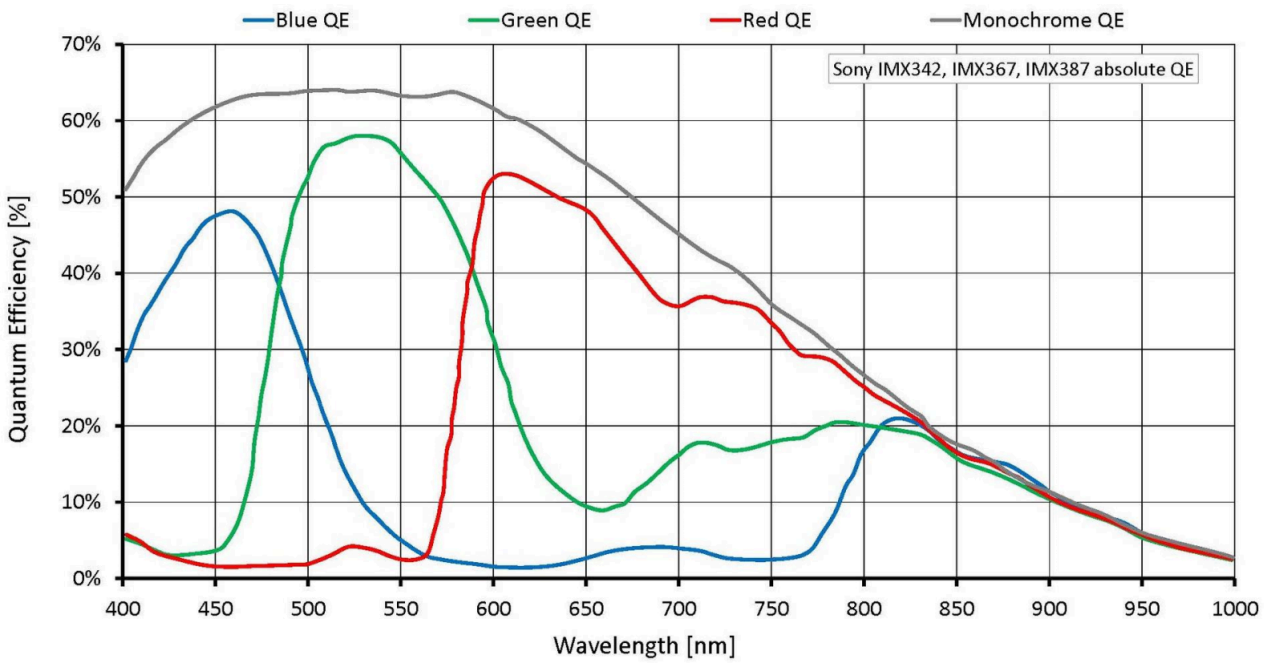
On-board memory and FPGA

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

Interfaces

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

Quantum Efficiency



Technical Drawing

