Allied Vision

Alvium G1

Alvium G1-510



Alvium G1-510 innovative GigE camera with Sony IMX548 CMOS global shutter sensor provides industrial performance for cost effective machine vision applications.

General

Model	Alvium G1-510
Product series	Alvium G1
Status	Available

Sensor

Sensor type	Area scan
Chroma	Color, Mono
Spectrum	Visible
Spectral range	300 nm to 1100 nm
Resolution	2,464 × 2,064 (5.10 MP)
Sensor model	Sony IMX548
Sensor architecture (material)	cmos
Shutter type(s)	Global shutter (GS)
Sensor size	6.8 × 5.7 mm (8.8 mm, Type 1/1.8)
Pixel size	2.74 µm × 2.74 µm

Pixel formats

Sensor bit depth	12-bit
YUV pixel formats	YCbCr411_8_CbYYCrYY, YCbCr422_8_CbYCrY, YCbCr8_CbYCr
RGB pixel formats	BGR8, RGB8 (default)
Bayer pixel formats	BayerRG12

Imaging performance

Quantum efficiency @ 529 nm	68 %

Timing and gain

Max. frame rate	23 fps
Exposure time	23 µs to 10 s
Gain	0.0 dB to 48.0 dB

I/Os and power

Non-isolated lines	2 GPIOs (LVTTL)
Opto-isolated lines	1 input, 1 output
Power supply	10.8 to 26.4 VDC AUX | IEEE 802.3af, Power Class 0 PoE
Power consumption	External power: 3.2 W at 12 VDC (typical) | Power over Ethernet: 3.6 W (typical)

Operating conditions

Operating temperature	-20 °C to 65 °C (housing)

Mechanical properties

Body dimensions (L x W x H in mm)	41 × 29 × 29
Lens mount(s)	C-Mount, CS-Mount, S-Mount
Weight	70 g

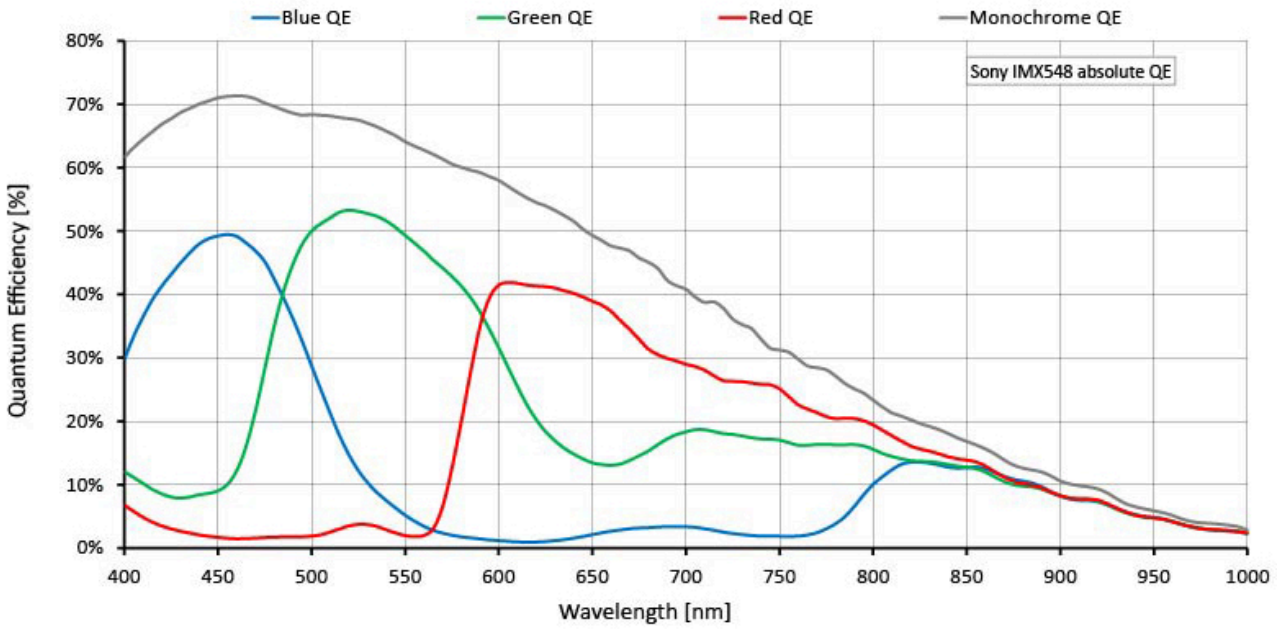
On-board memory and FPGA

Image buffer (RAM)	32 MByte
Non-volatile memory (Flash)	1024 KByte

Interfaces

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

Quantum Efficiency



Technical Drawing

