

Alvium G1

Alvium G1-1242



Alvium G1-1242 innovative GigE camera with Sony IMX545 CMOS global shutter sensor provides industrial performance for cost effective machine vision applications.

General

Model:	Alvium G1-1242
Product series:	Alvium G1
Status:	Available

Sensor

Sensor type:	Area scan
Chroma:	Mono or Color
Spectrum:	Visible
Spectral range:	300 nm to 1100 nm
Resolution:	4,128 × 3,008 (12.40 MP)
Sensor model:	Sony IMX545
Sensor architecture (material):	CMOS
Shutter type(s):	Global Shutter
Sensor size:	14 mm ø (Type 1/1.1)
Pixel size:	2.74 µm × 2.74 µm

Pixel formats

Sensor bit depth:	12-bit
Monochrome pixel formats:	Mono8, Mono10, Mono10p, Mono12, Mono12p, Mono12Packed
YUV pixel formats:	YCbCr411_8_CbYYCrYY, YCbCr422_8_CbYCrY, YCbCr8_CbYCr
RGB pixel formats:	RGB8 (default), BGR8

Pixel formats

Bayer pixel formats:

BayerRG8, BayerRG10, BayerRG10p, BayerRG12, BayerRG12p, BayerRG12Packed

Imaging performance

Quantum efficiency @ 529 nm:

68 %

Timing and gain

Max. frame rate:

9 fps

I/Os and power

Non-isolated lines:

2 GPIOs (LVTTTL)

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: 3.8 W at 12 VDC (typical) | Power over Ethernet: 4.0 W (typical)

Operating conditions

Operating temperature (housing):

-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

Weight:

70 g

On-board memory and FPGA

Image buffer (RAM):

32 MByte

Non-volatile memory (Flash):

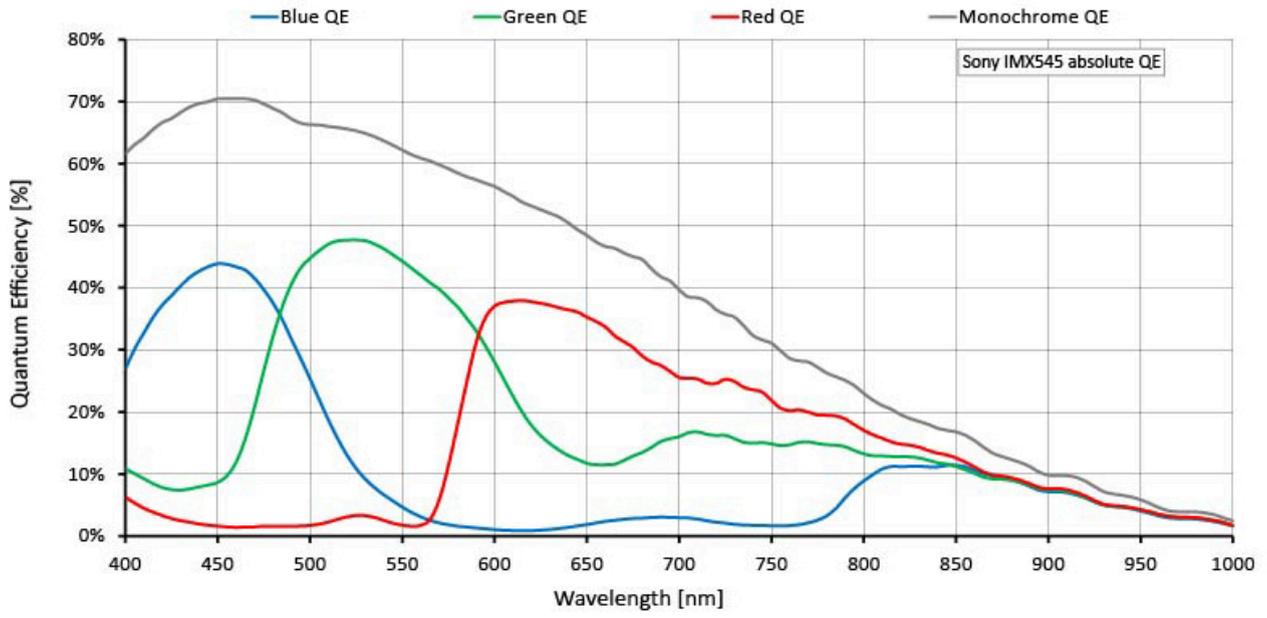
1024 KByte

Interfaces

Digital interface:

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

Quantum Efficiency



Technical Drawing

