Allied Vision

Alvium G1

Alvium G1-1236

Alvium G1-1236 innovative GigE camera with Sony IMX304 CMOS global shutter sensor provides industrial performance for cost effective embedded and machine vision applications.

General

Model	Alvium G1-1236
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	4,112 × 3,008 (12.40 MP)
Sensor model	Sony IMX304
Sensor architecture (material)	CMOS
Shutter type(s)	Global Shutter
Sensor size	17.6 mm ø (Type 1.1)
Pixel size	3.45 µm × 3.45 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
Bayer pixel formats	BayerRG8, BayerRG10, BayerRG10p, BayerRG12, BayerRG12p, BayerRG12Packed

Imaging performance

Quantum efficiency @ 529 nm	64 %

Timing and gain

Max. frame rate	9 fps

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: 3.8 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

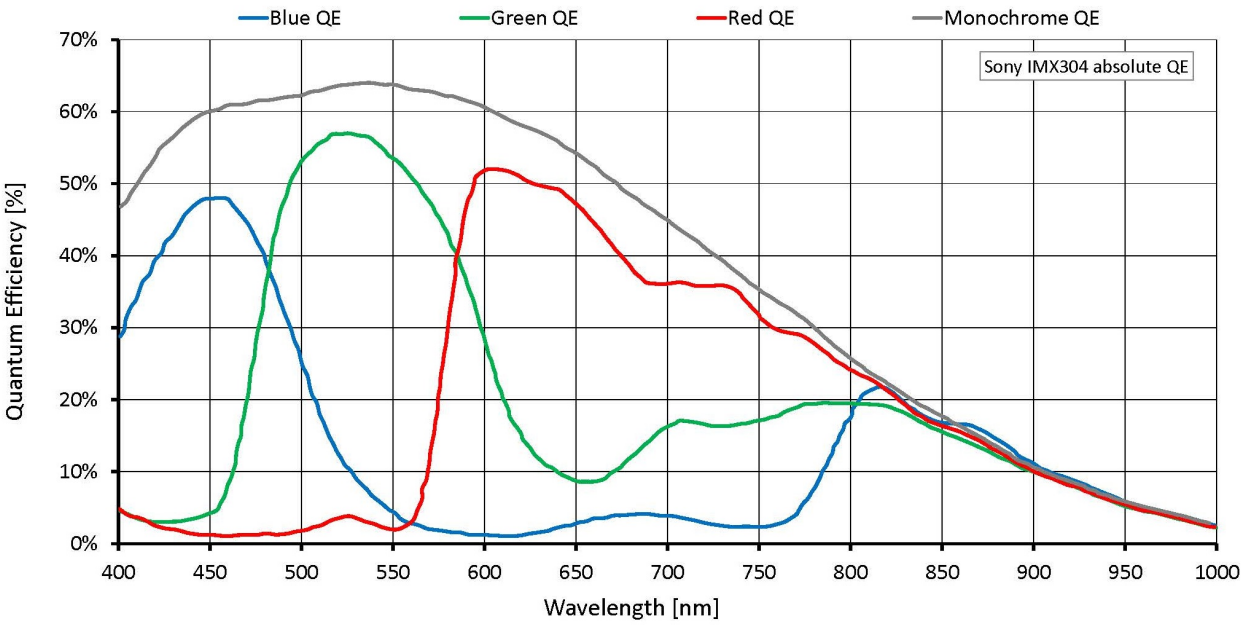
On-board memory and FPGA

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