

# Alvium G1

## Alvium G1-234



Alvium G1-234 innovative GigE camera with Sony IMX249 CMOS global shutter sensor provides industrial performance for cost effective embedded and machine vision applications.

### General

Model:	Alvium G1-234
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:	1,936 × 1,216 (2.40 MP)
Sensor model:	Sony IMX249
Sensor architecture (material):	CMOS
Shutter type(s):	Global Shutter
Sensor size:	13.4 mm ø (Type 1/1.2)
Pixel size:	5.86 µm × 5.86 µm

### Pixel formats

Sensor bit depth:	10-bit, 12-bit; Adaptive (10-bit, 12-bit)
Monochrome pixel formats:	Mono8, Mono10, Mono10p, Mono12, Mono12p, Mono12Packed
YUV pixel formats:	YCbCr411_8_CbYYCrYY, YCbCr422_8_CbYCrY, YCbCr8_CbYCr

## Pixel formats

RGB pixel formats:	RGB8 (default), BGR8
Bayer pixel formats:	BayerRG8, BayerRG10, BayerRG10p, BayerRG12, BayerRG12p, BayerRG12Packed

## Timing and gain

Max. frame rate:	40
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## 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: 3.0 W at 12 VDC (typical)   Power over Ethernet: 3.3 W (typical)

## Operating conditions

Operating temperature (housing):	-20 °C to 65 °C (housing)
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## Mechanical properties

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

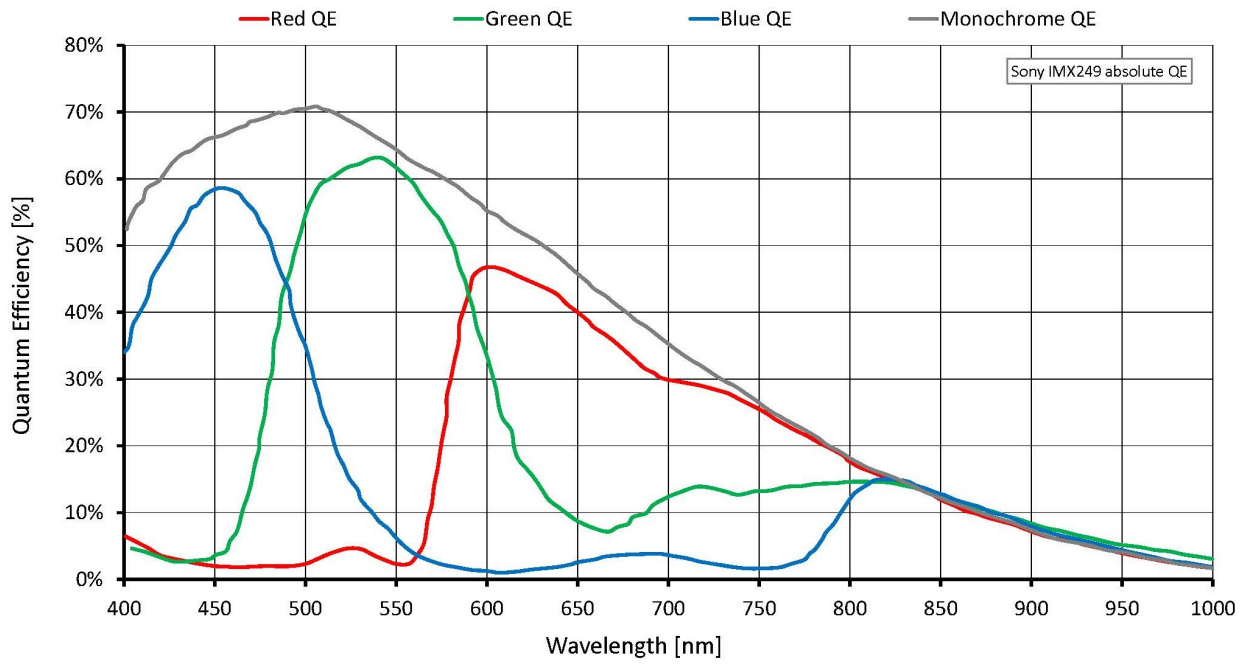
## On-board memory and FPGA

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

## Interfaces

Digital interface:	IEEE 802.3 1000BASE-T, IEEE 802.3af (PoE)
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# Quantum Efficiency



# Technical Drawing

