

# Alvium G1

## Alvium G1-2050



Alvium G1-2050 innovative GigE camera with Sony IMX183 CMOS rolling shutter sensor provides industrial performance for cost effective machine vision applications.

### General

Model:	Alvium G1-2050
Product series:	Alvium G1
Status:	Available

### Sensor

Sensor type:	Area scan
Chroma:	Mono or Color
Spectral range:	300 nm to 1100 nm
Resolution:	5,496 × 3,672 (20.20 MP)
Sensor model:	Sony IMX183
Shutter type(s):	Global Reset Shutter, Rolling Shutter
Sensor size:	16.3 mm ø (Type 1)
Pixel size:	2.40 µm × 2.40 µm

### Pixel formats

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:	80 %
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## Timing and gain

Max. frame rate: 5

## 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: 3.6 W at 12 VDC (typical) | Power over Ethernet: 3.9 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

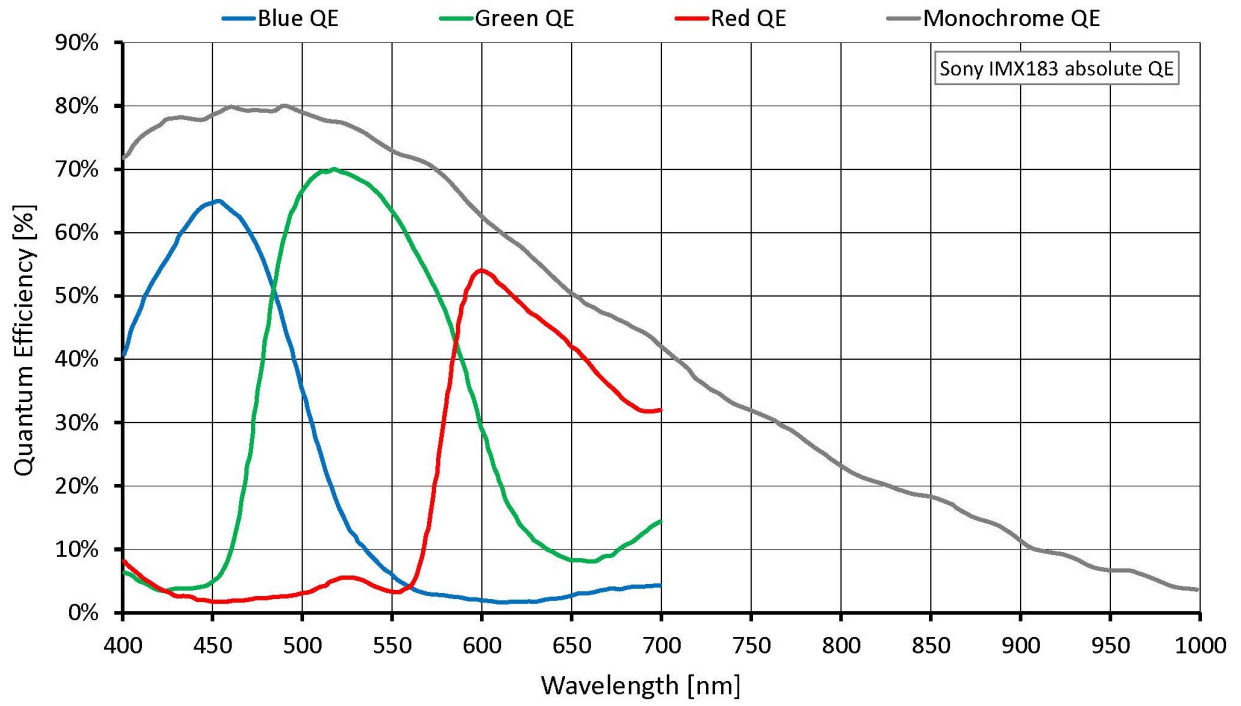
Image buffer (RAM): 32 MByte

Non-volatile memory (Flash): 1024 KByte

## Interfaces

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

# Quantum Efficiency



# Technical Drawing

