Allied Vision

Alvium G5

Alvium G5-1240

Alvium G5-1240 innovative 5GBASE-T camera with Sony IMX226 CMOS rolling shutter sensor provides industrial performance for cost effective machine vision applications.

General

Model	Alvium G5-1240
Product series	Alvium G5
Status	Available

Sensor

Sensor type	Area scan
Chroma	Mono or Color
Spectrum	Visible
Spectral range	300 nm to 1100 nm
Resolution	4,024 × 3,036 (12.20 MP)
Sensor model	Sony IMX226
Sensor architecture (material)	CMOS
Shutter type(s)	Global Reset Shutter, Rolling Shutter
Sensor size	9.33 mm ø (Type 1/1.7)
Pixel size	1.85 µm × 1.85 µm

Pixel formats

Sensor bit depth	10-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	74 %

Timing and gain

Max. frame rate	42 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: 6.1 W at 12 VDC (typical) | Power over Ethernet: 6.8 W (typical)

Operating conditions

Operating temperature (housing)	-20 °C to 60 °C (housing temperature)

Mechanical properties

Body dimensions (L x W x H in mm)	60 × 29 × 29
Lens mount(s)	C-Mount, CS-Mount
Weight	100 g

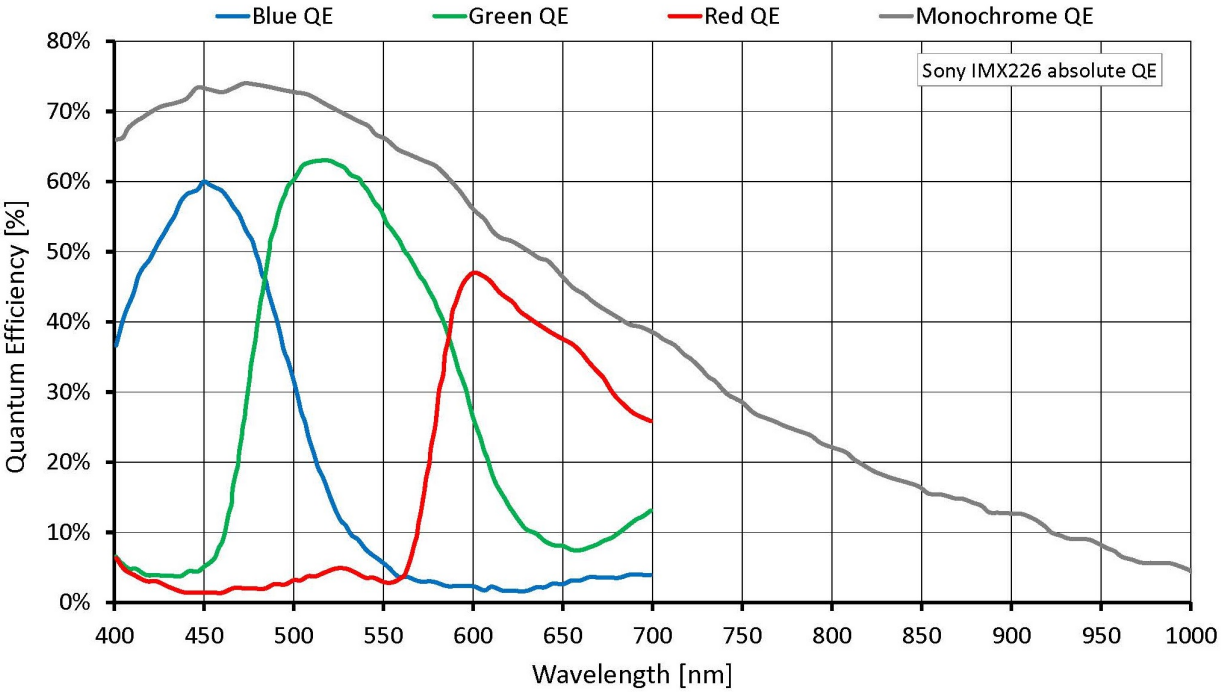
On-board memory and FPGA

Image buffer (RAM)	512 MByte
Non-volatile memory (Flash)	1024 KByte

Interfaces

Digital interface	IEEE 802.3: 5GBASE-T or 2.5GBASE-T (NBASE-T) and 1000BASE-T, IEEE 802.3af Power Class 0 PoE

Quantum Efficiency



Technical Drawing