Allied Vision

Alvium G1

Alvium G1-130 VSWIR



Alvium G1-130 VSWIR innovative GigE camera with global shutter Sony IMX990 SenSWIR InGaAs sensor enables short wave infrared (SWIR) imaging with industrial performance for various machine vision applications.

General

Model	Alvium G1-130 VSWIR
Product series	Alvium G1
Status	Available

Sensor

Sensor type	Area scan
Chroma	Mono
Spectrum	SWIR, Visible SWIR
Spectral range	400 nm to 1700 nm
Resolution	1,296 × 1,032 (1.30 MP)
Sensor model	Sony IMX990 | InGaAs
Sensor architecture (material)	cmos-ingaas
Shutter type(s)	Global shutter (GS)
Sensor size	6.4 × 5.1 mm (8.2 mm, Type 1/2)
Pixel size	5.00 µm × 5.00 µm

Pixel formats

Sensor bit depth	10-bit, 12-bit, 8-bit
Monochrome pixel formats	Mono8 (default)

Timing and gain

Max. frame rate	88 fps
Exposure time	19 µs to 10 s
Gain	0.0 dB to 42.0 dB

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: 2.9 W at 12 VDC (typical) | Power over Ethernet: 3.2 W (typical)

Operating conditions

Operating temperature	-20 °C to 55 °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

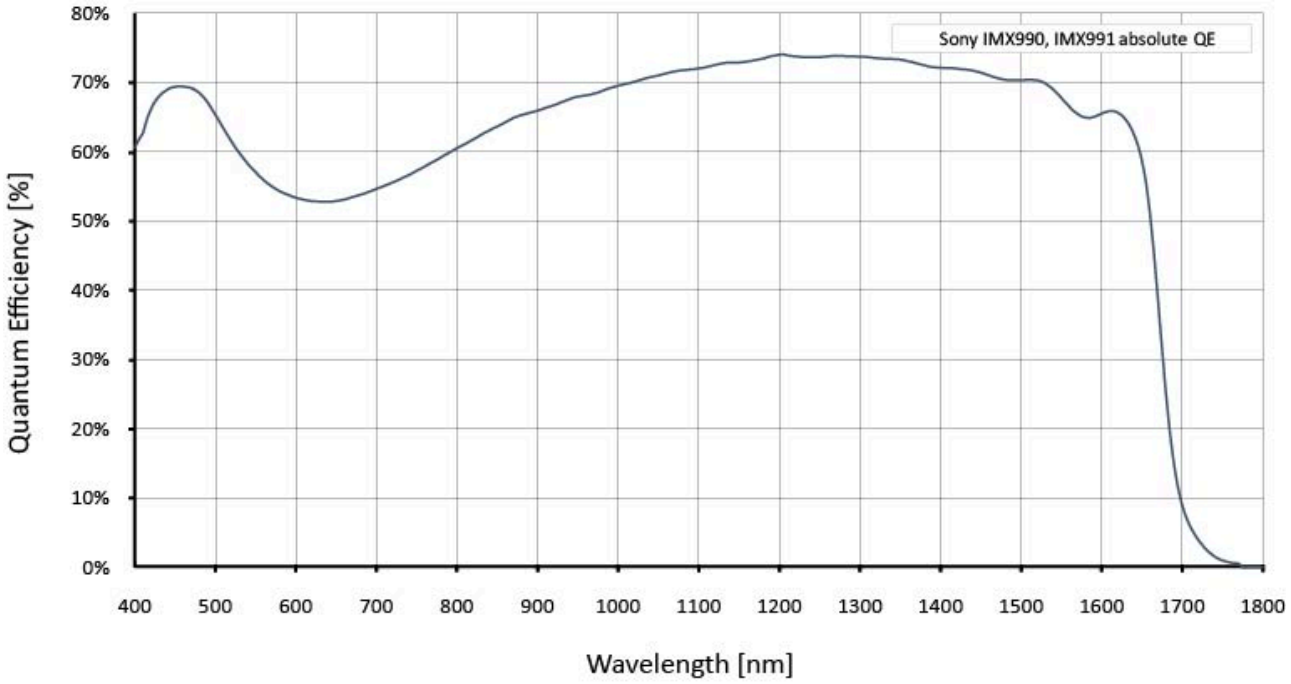
On-board memory and FPGA

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

