Allied Vision

Alecs

Alecs G1-530 VSWIR NX16

Alecs G1-530 VSWIR innovative vision system with Sony IMX992 InGaAs global shutter sensor and NVIDIA® Jetson Orin™ NX16 enables developping applications for the near infrared spectrum faster.

General

Model	Alecs G1-530 VSWIR NX16
Product series	Alecs
Status	Available

Sensor

Sensor type	Area scan
Chroma	Mono
Spectrum	SWIR, Visible SWIR
Spectral range	400 nm to 1700 nm
Resolution	2,592 × 2,056 (5.30 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	12-bit
Monochrome pixel formats	GREY, RAW10, RAW12, RAW8, Y10, Y12

Timing and gain

Max. frame rate	130 fps
Exposure time	36 µs to 10 s
Gain	0.0 dB to 42.0 dB

I/Os and power

Non-isolated lines	2 inputs, 2 outputs, 1 trigger input, 1 strobe output
Power supply	24 VDC
Power consumption	SoM: Max. 10 W to 25 W | Carrier board: Max. 2.0 W | Camera: Max. 2.7 W || Idle state: 8.5 W

Operating conditions

Operating temperature (housing)	-20 °C to 55 °C ((housing))

Mechanical properties

Body dimensions (L x W x H in mm)	102 × 72 × 112
Lens mount(s)	C-Mount
Weight	810 g

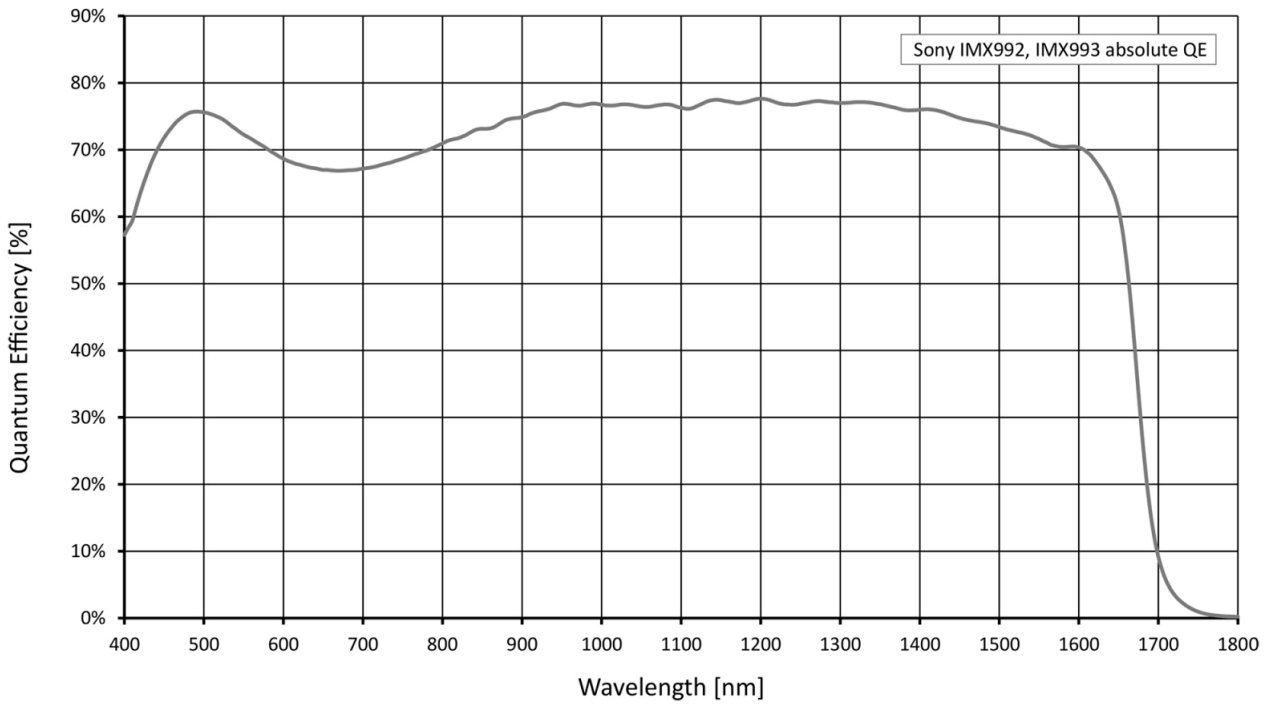
On-board memory and FPGA

Image buffer (RAM)	256 KByte
Non-volatile memory (Flash)	1024 KByte

Interfaces

Digital interface	IEEE 802.3 1000BASE-T

Quantum Efficiency



Technical Drawing

Alecs Main Housing with Lens Tube LT4649