Alecs

Alecs G1-030 VSWIR NX16



Alecs G1-030 VSWIR innovative vision system with Sony IMX991 InGaAs global shutter sensor and NVIDIA® Jetson Orin™ NX16 enables developping applications for the near infrared spectrum faster. The NVIDIA® Jetson Orin™ NX16 embedded board provides 16 GByte RAM, with power modes up to 25 W. Embedded technologies enable advanced AI models and compute-intensive edge detection: Deep Learning Accelerator (DLA) with dedicated cores offloads the hosts' CPU and GPU and Programmable Vision Accelerator (PVA) with dedicated cores extends the Alvium BSP feature set by NVIDIA vision libraries. Alecs G1 comes with 128 GByte NVMe storage, providing sufficient space for AI models, datasets, and

常规

型号	Alecs G1-030 VSWIR NX16
产品系列	Alecs
状态	Available

传感器

传感器类型	Area scan
色度	Mono
光谱	SWIR, Visible SWIR
光谱范围	400 nm to 1700 nm
分辨率	565 × 520 (0.30 MP)
传感器型号	Sony IMX991 | InGaAs
传感器架构（材料）	cmos-ingaas
快门类型	Global shutter (GS)
传感器尺寸	3.3 × 2.6 mm (4.1 mm, Type 1/4)
像素尺寸	5.00 µm × 5.00 µm

像素格式

传感器位深度	12-bit
单色像素格式	GREY, RAW10, RAW12, RAW8, Y10, Y12

时序与增益

最大帧率	130 fps
曝光时间	15 µs to 10 s
增益	0.0 dB to 42.0 dB

I/O与电源

非电气隔离IO	2 inputs, 2 outputs, 1 trigger input, 1 strobe output
电源供应	24 VDC
功耗	SoM: Max. 10 W to 25 W | Carrier board: Max. 2.0 W | Camera: Max. 1.8 W || Idle state: 8.5 W

工作条件

工作温度（外壳	-20 °C to 55 °C ((housing))

机械特性

机身尺寸（L x W x H mm）	102 × 72 × 112
镜头接口	C-Mount
重量	810 g

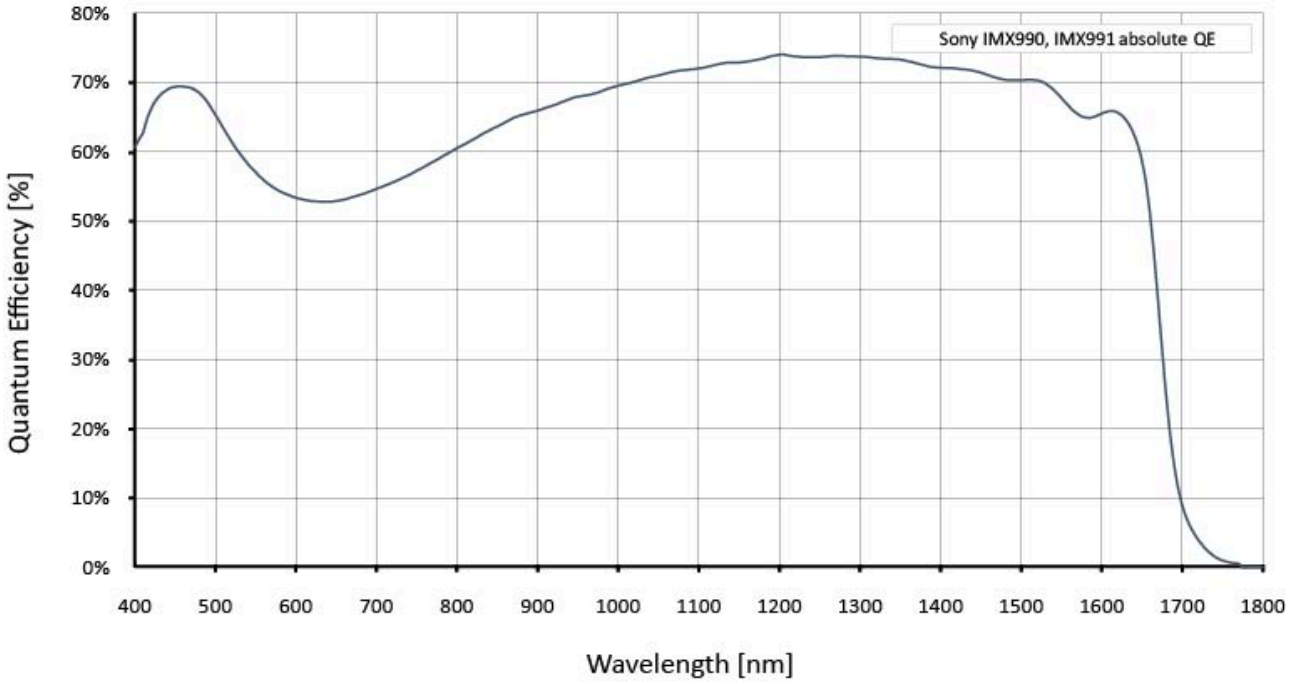
板载内存与FPGA

图像缓存（RAM）	256 KByte
非易失性存储器（闪存）	1024 KByte

接口

数字接口	IEEE 802.3 1000BASE-T

Quantum Efficiency



Technical Drawing

Alecs Main Housing with Lens Tube LT4649

