



Alecs G1-510 NX16 innovative vision system with Sony IMX548 CMOS global shutter sensor and NVIDIA® Jetson Orin™ NX16 enables developing applications faster.

### General

Model:	Alecs G1-510 NX16
Product series:	Alecs
Status:	Available

### Sensor

Sensor type:	Area scan
Chroma:	Mono or Color
Spectrum:	Visible
Spectral range:	300 nm to 1100 nm
Resolution:	2,464 × 2,064 (5.10 MP)
Sensor model:	Sony IMX548
Sensor architecture (material):	CMOS
Shutter type(s):	Global Shutter
Sensor size:	9 mm ø (Type 1/1.8)
Pixel size:	2.74 µm × 2.74 µm

### Pixel formats

Sensor bit depth:	12-bit
Monochrome pixel formats:	Mono8, Mono10, Mono10p, Mono12, Mono12p, RAW8, RAW10, RAW12, GREY, Y10, Y12
YUV pixel formats:	YCbCr411_8_CbYYCrYY, YCbCr422_8_CbYCrY, YCbCr8_CbYCr, YUV422 8-bit, UYVY

## Pixel formats

RGB pixel formats:	RGB8 (default), BGR8, RGB888 (default), RGB3
Bayer pixel formats:	BayerRG8, BayerRG10, BayerRG10p, BayerRG12, BayerRG12p

## Imaging performance

Quantum efficiency @ 529 nm:	68 %
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## Timing and gain

Max. frame rate:	81 fps
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## I/Os and power

Opto-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. 2.8 W     Idle state: 8.5 W

## Operating conditions

Operating temperature (housing):	-20 °C to 65 °C (housing)
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## Mechanical properties

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

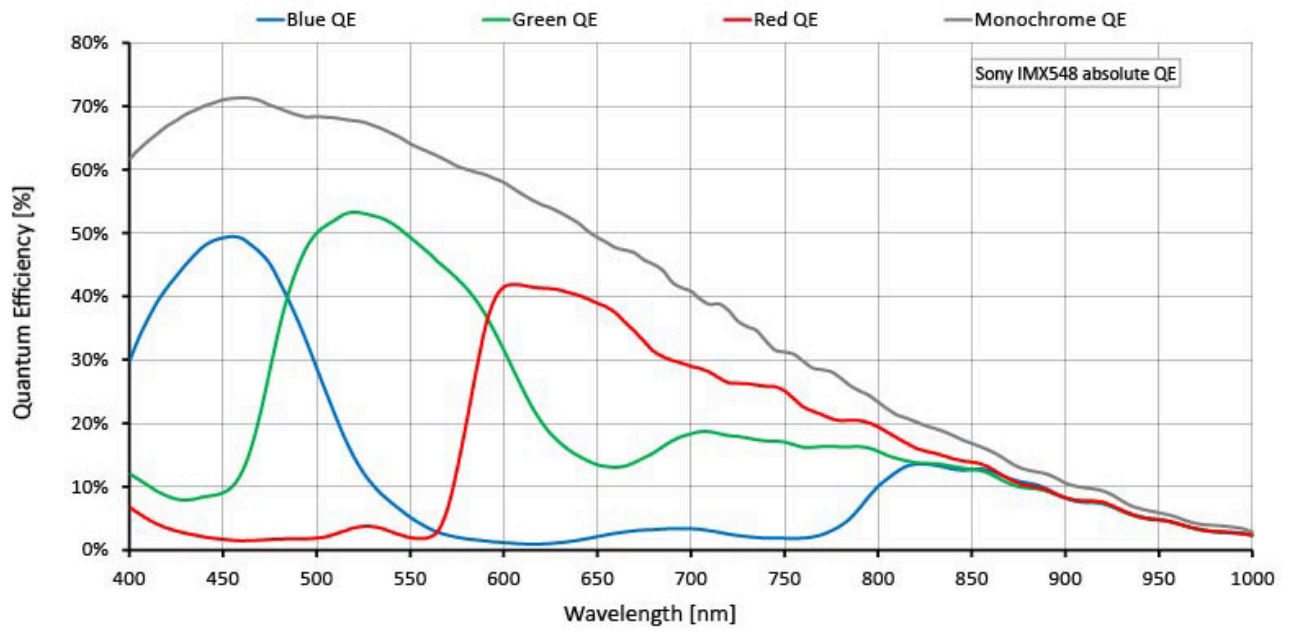
## On-board memory and FPGA

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

## Interfaces

Digital interface:	IEEE 802.3 1000BASE-T
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# Quantum Efficiency



Alecs Main Housing with Lens Tube LT4649

