Allied Vision



Prosilica GT

Prosilica GT 5120NIR

Prosilica GT5120NIR is a 26.2 megapixel camera with a GigE Vision compliant Gigabit Ethernet interface and Hirose port. Prosilica GT5120NIR is an extended near-infrared (NIR) model. This camera incorporates the high quality ON Semi PYTHON 25K NIR (NOIP1FN025KA) CMOS sensor.

General

Model	Prosilica GT 5120NIR
Product series	Prosilica GT
Status	Available

Sensor

Sensor type	Area scan
Chroma	Mono
Spectrum	Visible NIR
Resolution	5,120 × 5,120 (26.20 MP)
Sensor model	ON Semi PYTHON 25K NIR
Sensor architecture (material)	cmos
Shutter type(s)	Global shutter (GS)
Sensor size	23.04 × 23.04 mm (32.6 mm, Type APS-H)
Pixel size	4.50 µm × 4.50 µm

Pixel formats

Sensor bit depth	10-bit

Imaging performance

Quantum efficiency @ 529 nm	55 %
Quantum efficiency @ 850 nm	33 %

Timing and gain

Max. frame rate	4 fps
Exposure time	1 µs to 1 s
Gain	0.0 dB to 22.0 dB

I/Os and power

Non-isolated lines	1 input, 2 outputs
Specific non-isolated lines	1
Opto-isolated lines	1 input, 2 outputs
Power supply	7 to 25 VDC AUX or IEEE 802.3at Type 1 PoE
Power consumption	External power: 5.02 W at 12 VDC | Power over Ethernet: 6.3 W

Operating conditions

Operating temperature (housing)	-20 °C to 50 °C (ambient (without condensation))

Mechanical properties

Body dimensions (L x W x H in mm)	96 × 66 × 53
Weight	372 g

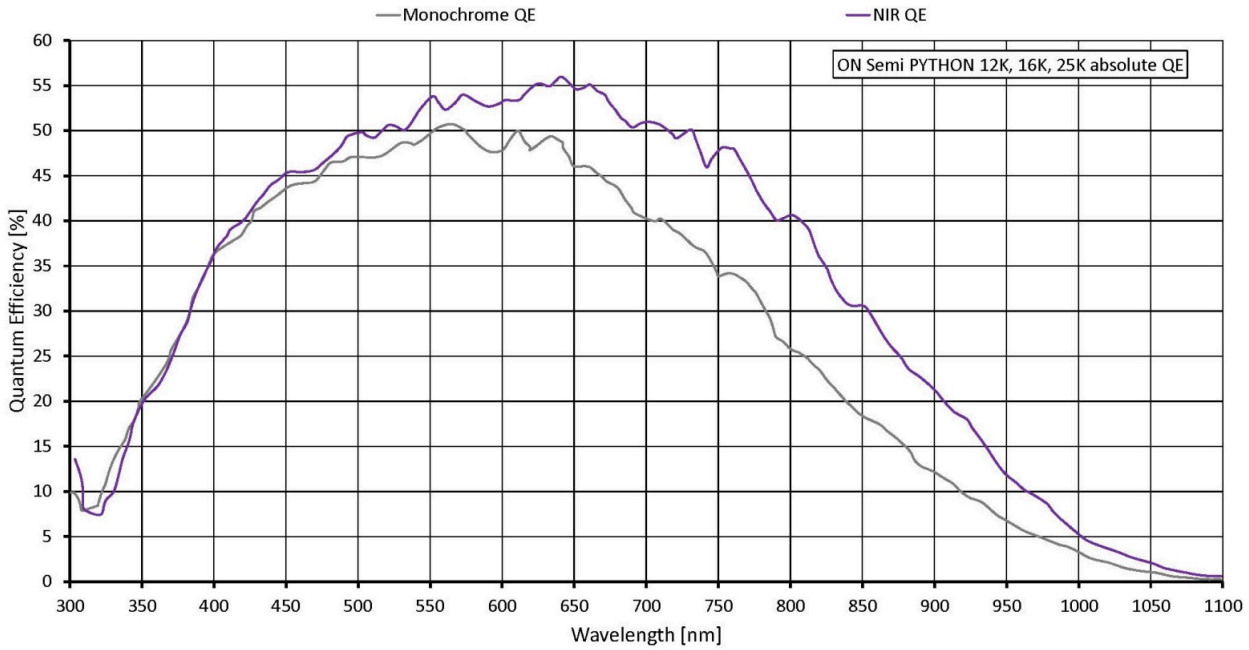
On-board memory and FPGA

Image buffer (RAM)	128 MByte
Non-volatile memory (Flash)	1024 KByte

Interfaces

Digital interface	IEEE 802.3 1000BASE-T, IEEE 802.3af (PoE)

Quantum Efficiency



Technical Drawing

