



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
Sensor size:	32.36 mm ø (Type APS-H)
Pixel size:	4.50 µm × 4.50 µm

Pixel formats

Sensor bit depth:	10-bit
Monochrome pixel formats:	Mono8, Mono10

Imaging performance

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

Timing and gain

Max. frame rate: 4 fps

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



