





Prosilica GT

5120

- -20° C to +65° C (ambient temperature)
- PoE
- IEEE 1588 PTP
- Trigger over Ethernet
- Auto iris

Engineered for every environment

High-resolution cameras for demanding applications

Prosilica GT 5120 with ON Semi PYTHON 25K runs 4.6 frames per second at 26.2 MP resolution.

The rugged housing optimized for heat dissipation makes Prosilica GT the ideal solution for harsh environments. The various lens control options allow constant adjustment of the image brightness to changing light conditions. Offering resolutions of up to 31 megapixels, they are ideal for high-definition imaging applications with demanding requirements of robustness and design-in flexibility.

Easy software integration with Allied Vision's Vimba Suite and compatibility to the most popular third party image-processing libraries.

See the Modular Concept for lens mount, housing variants, optical filters, case design, and other modular options. See the Customization and OEM Solutions webpage for additional options.



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Interface IEEE 802.3 1000BASE-T, IEEE 802.3af (PoE)

Resolution 5120 (H) \times 5120 (V)

Sensor ON Semi PYTHON 25K

Sensor type CMOS

Shutter mode GS (Global shutter)

Sensor size Type APS-H

Pixel size $4.5 \,\mu\text{m} \times 4.5 \,\mu\text{m}$

Lens mounts (available) F-Mount

Max. frame rate at full resolution 4.59 fps

ADC 10 Bit

Image buffer (RAM) 128 MByte

Imaging performance

Imaging performance data is based on the evaluation methods in the EMVA 1288 Release 3.1 standard for characterization of image sensors and cameras. Measurements are typical values for monochrome models measured without optical filter.

Quantum efficiency at 529 nm 53 %

Temporal dark noise 22.1 e⁻

Saturation capacity 7800 e⁻

Dynamic range 50.7 dB

Absolute sensitivity threshold 22.7 e

Output

Bit depth 10-bit

Monochrome pixel formats Mono8, Mono10

General purpose inputs/outputs (GPIOs)

TTL I/Os 1 input, 2 outputs

Opto-isolated I/Os 1 input, 2 outputs

RS232 1



Operating conditions/dimensions

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

Power requirements (DC) 7 to 25 VDC AUX or IEEE 802.3at Type 1 PoE

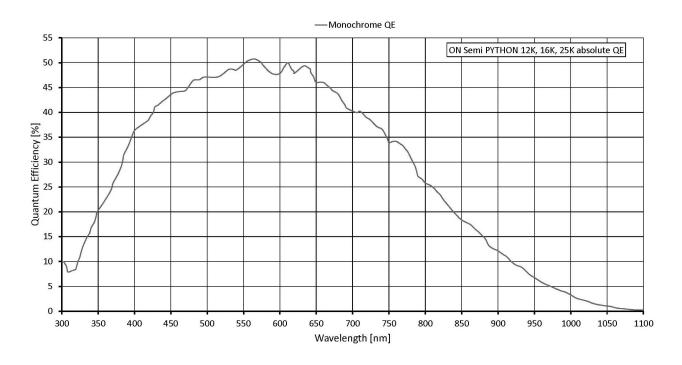
Power consumption External power: 5.02 W at 12 VDC | Power over Ethernet:

6.3 W

Mass 372 g

Body dimensions (L \times W \times H in mm) 96 \times 66 \times 53.3 (including connectors)

Quantum efficiency





Features

Image control: Auto

- · Auto exposure
- Auto gain

Image control: Other

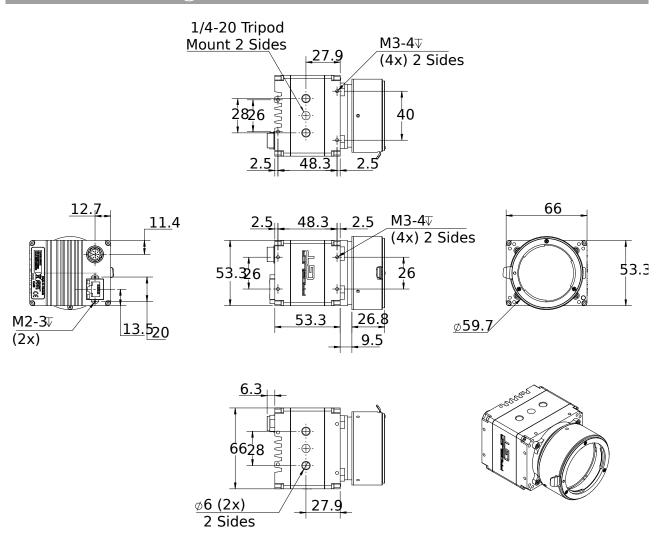
- Black level
- Decimation
- DPC (defect pixel correction)
- FPNC (fixed pattern noise correction)
- Gamma
- LUT (look-up table)
- ROI (region of interest)

Camera control

- Acquisition frame rate
- Auto iris
- Bandwidth control
- EF Mount lens control
- Event channel
- Firmware update in the field
- I/O and trigger control
- Image chunk data
- Stream hold
- · Temperature monitoring
- ToE (trigger over Ethernet, action commands)
- User sets



Technical drawing



Applications

Prosilica GT5120 camera series is ideal for a wide range of applications including:

- · Outdoor imaging
- Intelligent Traffic Systems
- Public security and surveillance
- Industrial inspection (for example food, bottles, recycling, labels)
- Microscopy
- Military and space applications
- Medical and healthcare
- Other machine vision applications