Allied Vision

Prosilica GC 750

- GigE Vision interface
- Rugged housing
- IEEE 1588 PTP
- Auto iris

Compact performance

Prosilica GC - Ultra-compact GigE Vision camera

Prosilica GC 750 with ON Semi MT9V022 runs 67.0 frames per second at 0.4 MP resolution.

The Prosilica GC is a GigE camera with an ultra-compact, lightweight housing, fast frame rates, and auto-iris control. It offers a large choice of CCD and CMOS sensors up to 5 Megapixels and fits a wide range of applications.

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.

Specifications

	Prosilica GC 750
Interface	IEEE 802.3 1000baseT
Resolution	752 (H) × 480 (V)
Sensor	ON Semi MT9V022
Sensor type	CMOS
Shutter mode	Global shutter
Sensor size	Type 1/3
Pixel size	6 µm x 6 µm
Lens mount (default)	C-Mount
Max. frame rate at full resolution	67 fps

Prosilica GC 750	
ADC	10 Bit
Image buffer (RAM)	16 MByte
Output	
Bit depth	8/10 Bit
Monochrome pixel formats	Mono8, Mono10
RGB color pixel formats	RGB8Packed, BGR8Packed, RGBA8Packed, BGRA8Packed
Raw pixel formats	BayerBG8, BayerBG10
General purpose inputs/outputs (GPIOs)	
TTL I/Os	1 input, 1 output
Opto-isolated I/Os	1 input, 1 output
RS232	1
Operating conditions/dimensions	
Operating temperature	0 °C to +50 °C ambient (without condensation)
Power requirements (DC)	5 to 25 VDC
Power consumption	2.2 W at 12 VDC
Mass	85 g
Body dimensions (L × W × H in mm)	51 × 46 × 33 (including connectors)
Regulations	CE: 2014/30/EU (EMC), 2011/65/EU, including amendment 2015/863/EU (RoHS); FCC Class A; CAN ICES-003

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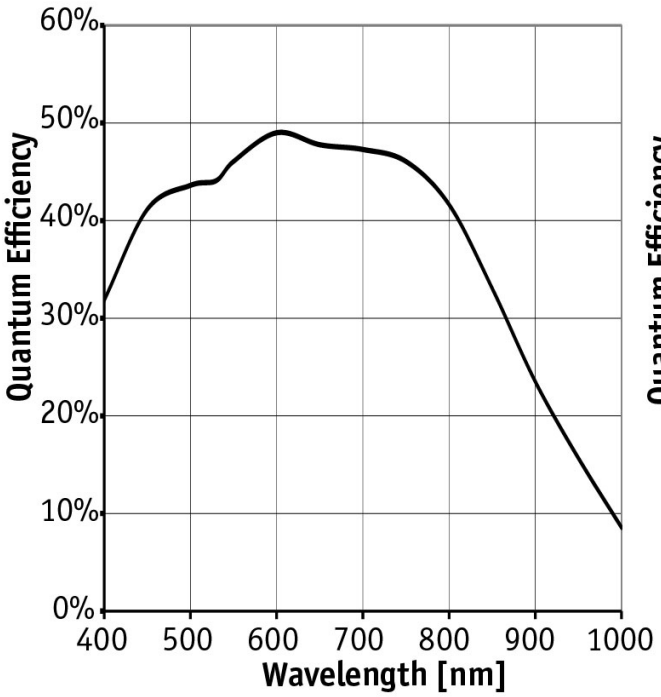
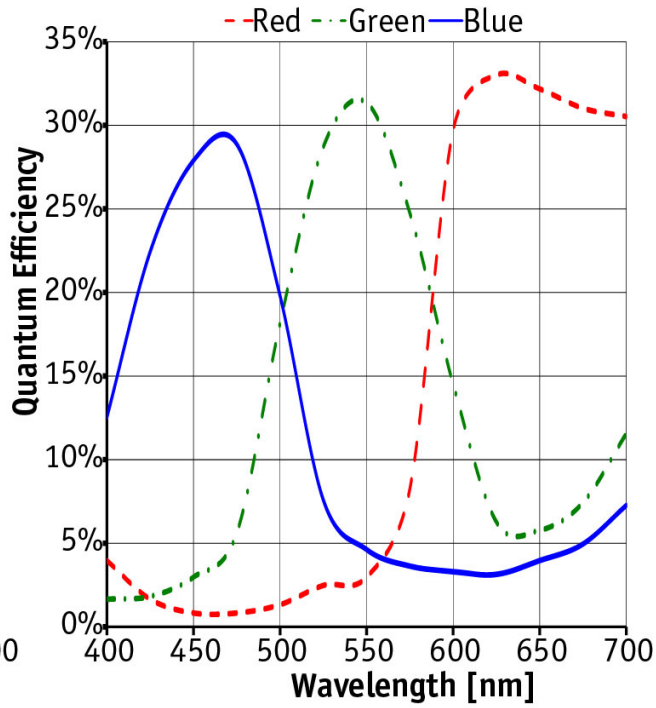
Quantum efficiency





Features

Image control: Auto

- Auto exposure
- Auto gain
- Auto white balance (color models)

Image control: Other

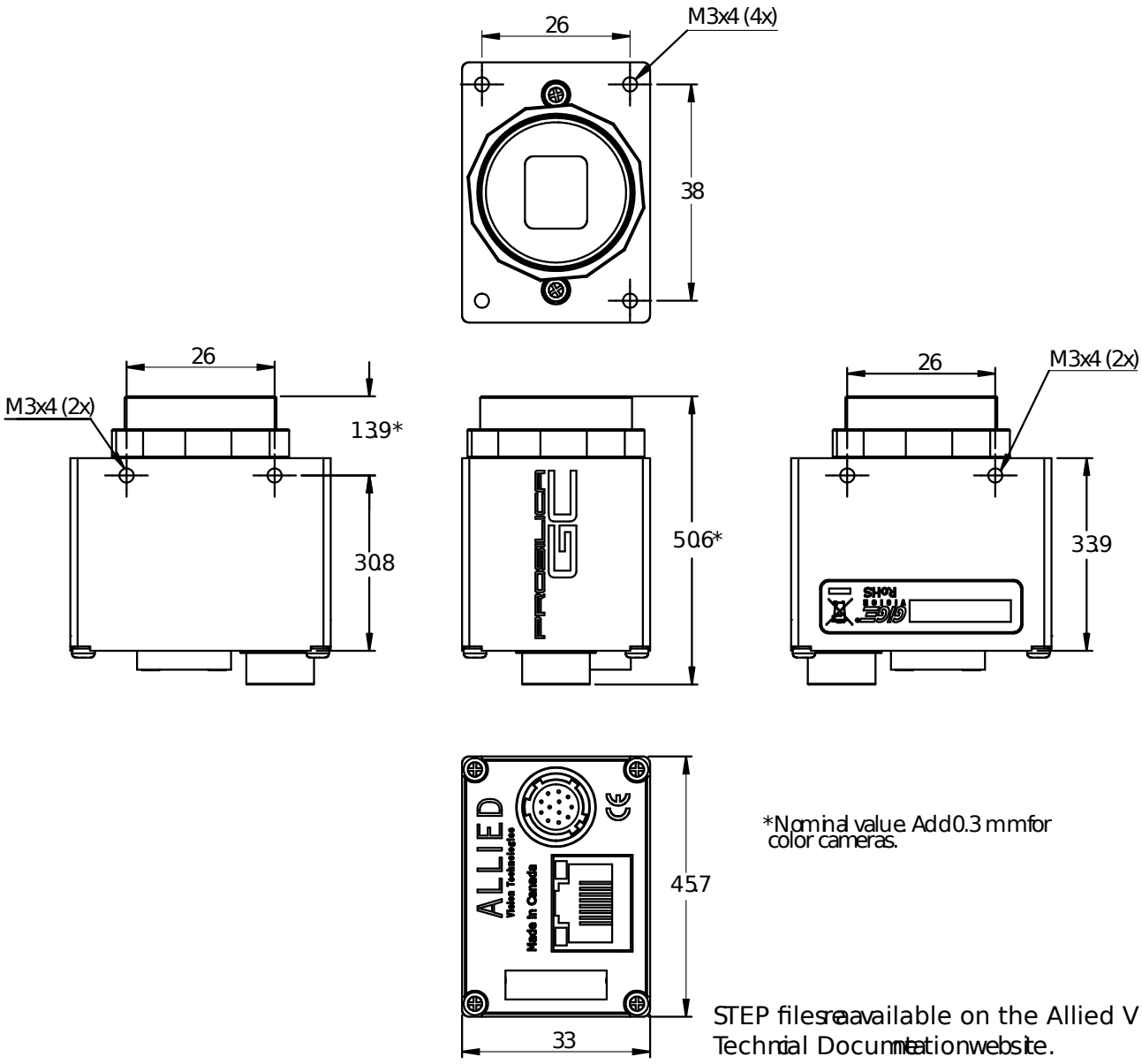
- ROI (region of interest)

Camera control

- Acquisition frame rate
- Auto iris
- Bandwidth control

- Event channel
- Firmware update in the field
- I/O and trigger control
- Image chunk data
- PTP (IEEE 1588 Precision Time Protocol)
- Stream hold

Technical drawing



*Nominal value. Add 0.3 mm for color cameras.

STEP files are available on the Allied Vision Technical Documentation website.

Applications

Prosilica GC750 is ideal for a wide range of applications including:

- High-speed inspection
- Machine vision
- Optical character recognition
- Traffic imaging
- Robotics
- OEM applications