



alls

Prosilica GC 1380H



- Rugged housing
- IEEE 1588 PTP
- Auto iris

Compact performance

Prosilica GC - Ultra-compact GigE Vision camera

Prosilica GC 1380H with Sony ICX285 runs 30.0 frames per second at 1.4 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

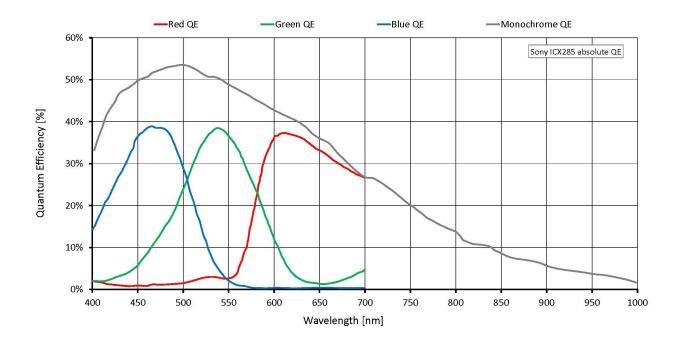
	Prosilica GC 1380H
Interface	IEEE 802.3 1000baseT
Resolution	1360 (H) × 1024 (V)
Sensor	Sony ICX285
Sensor type	CCD Progressive
Shutter mode	Global shutter
Sensor size	Туре 2/3
Pixel size	6.45 μm × 6.45 μm
Lens mount (default)	C-Mount



Prosilica GC 1380H		
Max. frame rate at full resolution	30 fps	
ADC	12 Bit	
Image buffer (RAM)	64 MByte	
Imaging performance Imaging performance data is based on the evaluation methods in the EMVA 1288 Release 3.1 stan- dard for characterization of image sensors and cameras. Measurements are typical values for monochrome models measured at full resolution without optical filter.		
Quantum efficiency at 529 nm	54 %	
Temporal dark noise	17.5 e ⁻	
Saturation capacity	14000 e ⁻	
Dynamic range	57.9 dB	
Absolute sensitivity threshold	18.0 e ⁻	
Output		
Bit depth	8/12 Bit	
Monochrome pixel formats	Mono8, Mono12, Mono12Packed	
RGB color pixel formats	RGB8Packed, BGR8Packed	
Raw pixel formats	BayerRG8, BayerRG12, BayerRG12Packed	
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	3.5 W at 12 VDC	
Mass	111 g	
Body dimensions (L × W × H in mm)	59 × 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	



Quantum efficiency



Features

Image control: Auto

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

Image control: Other

- Binning
- Black level
- Color transformation (incl. hue, saturation; color models)
- Gamma
- LUT (look-up table)
- ROI (region of interest)

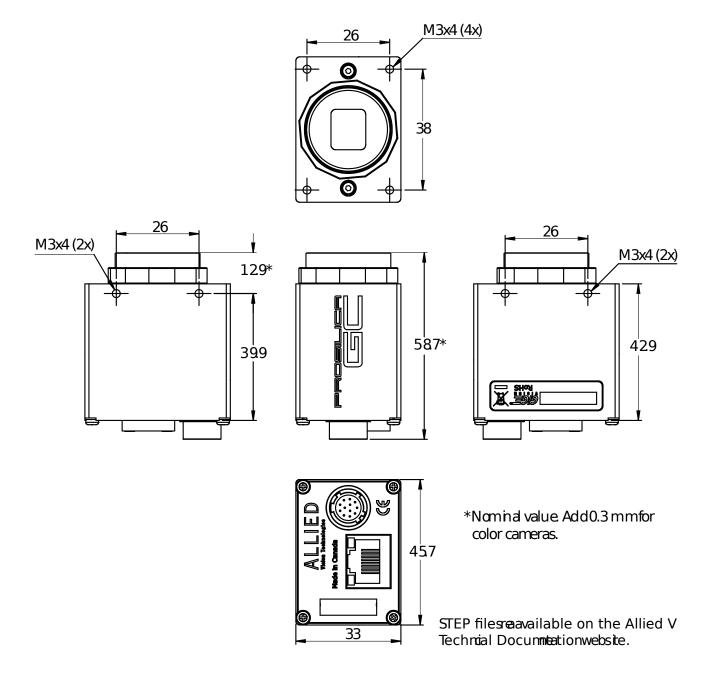


Camera control

- 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
- Temperature monitoring
- User sets



Technical drawing



Applications

Prosilica GC1380H is ideal for a wide range of applications including:

- Industrial inspection
- Machine vision
- Ophthalmology



- Microscopy
- Fluorescence
- Aeronautical and aerospace
- Public security
- Surveillance
- Traffic imaging