

Prosilica GC

655



- Compact
- High frame rate
- Rugged housing
- Video-type auto iris

Description

Very Small VGA CCD camera - 90 fps

Prosilica GC655 is a fast, VGA resolution, high-performance machine vision camera with Gigabit Ethernet interface (GigE Vision). The 1/2" CCD sensor has excellent image quality and sensitivity.

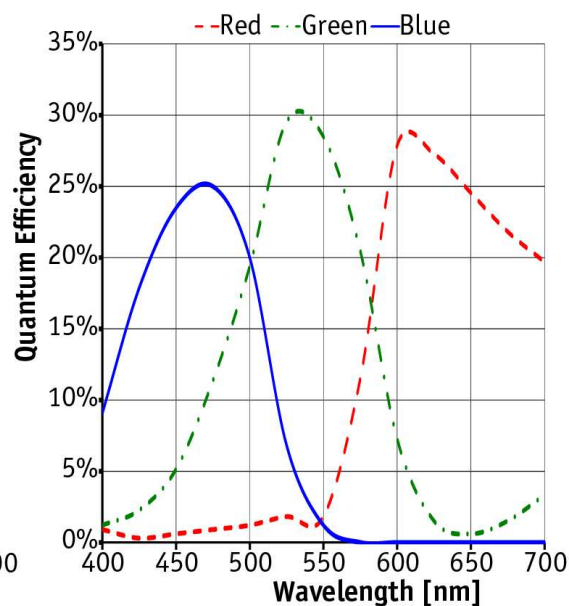
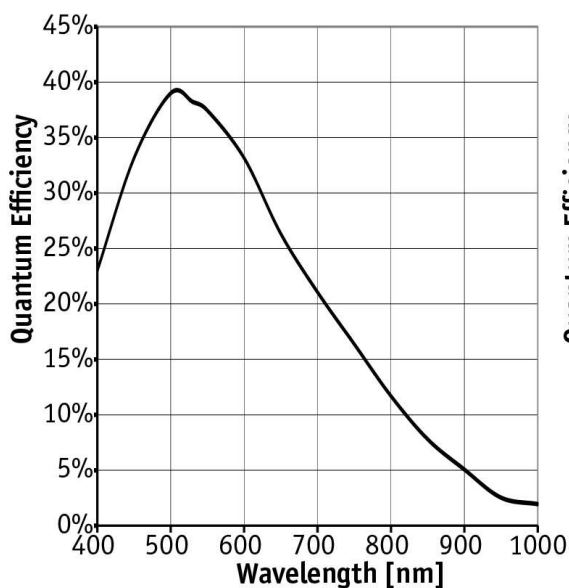
Options

- IR cut filter, CS-Mount

Specifications

Prosilica GC	655
Interface	IEEE 802.3 1000baseT
Resolution	659 × 493
Sensor	Sony ICX414
Sensor type	CCD Progressive
Sensor size	Type 1/2
Cell size	9.9 μm
Lens mount	C (adjustable)
Max frame rate at full resolution	90 fps
ADC	12 bit
On-board FIFO	16 Mbyte
Output	
Bit depth	8/12 bit
Mono modes	Mono8, Mono12, Mono12Packed
Color modes RGB	RGB8Packed, BGR8Packed
Raw modes	BayerRG8, BayerRG12, BayerGR12Packed

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General purpose inputs/outputs (GPIOs)	
TTL I/Os	1 input, 1 output
Opto-isolated I/Os	1 input, 1 output
RS-232	1
Operating conditions/dimensions	
Operating temperature	0°C ... +50°C
Power requirements (DC)	5-25 VDC*
Power consumption (@12 V)	3 W
Mass	100 g
Body dimensions (L × W × H in mm)	59 × 46 × 33 including connectors, w/o tripod and lens
Regulations	CE, FCC Class A, RoHS (2011/65/EU)



Features

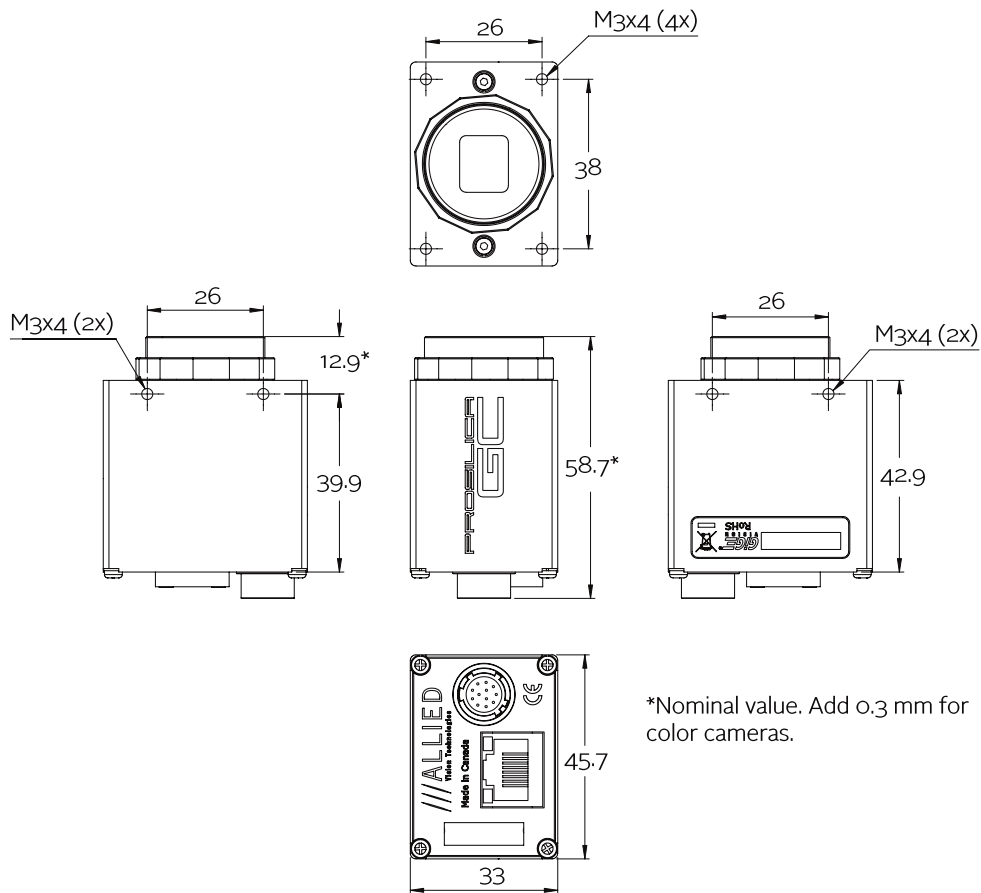
Prosilica GC655 features include:

- Video-type auto iris
- ROI, DSP subregion (selectable ROI for auto features)
- Binning
- Auto gain (manual gain control: 0 to 22 dB)
- Auto exposure (manual exposure controls: 10 μs to 116.8 s)
- Auto white balance



- StreamBytesPerSecond (easy bandwidth control)
- Stream hold
- Sync out modes: Trigger ready, input, exposing, readout, imaging, strobe, GPO
- Global shutter (digital shutter)
- Recorder and Multiframe acquisition modes
- Event channel
- Chunk data
- Storable user sets

Technical drawing





Applications

Prosilica GC655 is ideal for a wide range of applications including:

- Machine vision
- Industrial inspection
- Public security
- Traffic monitoring
- Robotics