Allied Vision

Prosilica GC

655

- Sony ICX414 sensor
- 90 fps @ full resolution
- Rugged housing
- Video-type auto iris

Description

Very Small VGA CCD camera, 90 frames per second

Prosilica#GC655/GC655C is a fast, VGA resolution, high-performance machine vision camera with a GigE Vision compliant Gigabit Ethernet interface. The 1/2" Sony ICX414 CCD sensor with HAD technology has excellent image quality and sensitivity.
Options:

- CS-Mount
- Optical filters (IR cut filter/Protection glass)

See the#Modular Concept#for lens mount and optical filter options.

Specifications

Prosilica GC	**655**
Interface	IEEE 802.3 1000baseT
Resolution	659 (H) × 493 (V)
Sensor	Sony ICX414
Sensor type	CCD Progressive
Cell size	9.9 µm x 9.9 µm
Lens mount	C-Mount
Max frame rate at full resolution	90 fps
ADC	12 bit
Image buffer (RAM)	16 MByte
Output	
Bit depth	8/12 bit
Mono modes	Mono8, Mono12, Mono12Packed

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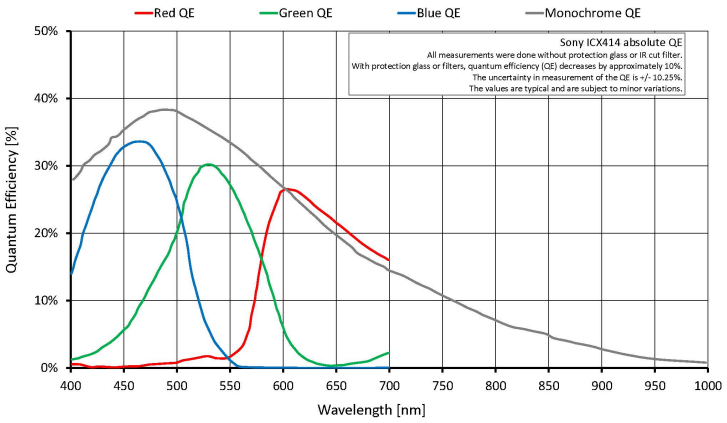
Color modes RGB	RGB8Packed, BGR8Packed
Raw modes	BayerRG8, BayerRG12, BayerGR12Packed
General purpose inputs/outputs (GPIOs)	
TTL I/Os	1 input, 1 output
Opto-isolated I/Os	1 input, 1 output
RS-232	1
Operating conditions/dimensions	
Operating temperature	0 °C to +50 °C ambient (without condensation)
Power requirements (DC)	5 to 25 VDC
Power consumption (@12 V)	3 W
Mass	100 g
Body dimensions (L × W × H in mm)	59 × 46 × 33 (including connectors)
Regulations	CE, RoHS, REACH, WEEE, FCC, ICES



Features

Image optimization features:

- Auto gain (manual gain control: 0 to 22 dB)
- Auto exposure (manual exposure control: 8 #s to 116.8 s @ 1 #s increments)
- Auto white balance
- Binning (horizontal and vertical)
- Region of interest (ROI), DSP subregion (selectable ROI for auto features)

Camera control features:

- Auto-iris (video type)
- Event channel
- Global shutter (digital shutter)
- IEEE 1588 Precision Time Protocol
- Image chunk data
- Recorder and Multiframe acquisition modes
- RS232
- Storable user sets (5)
- StreamBytesPerSecond (easy bandwidth control)
- Stream hold
- Sync out modes: Trigger ready, input, exposing, readout, imaging, strobe, GPO

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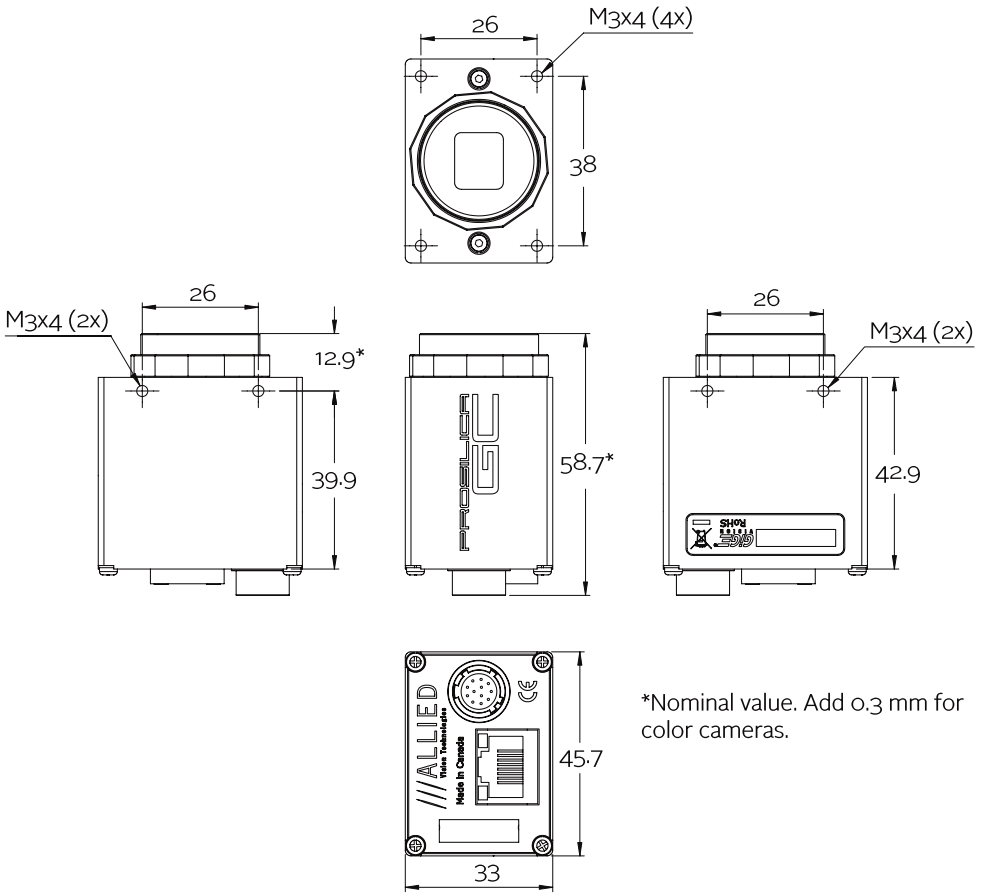
Technical drawing



*Nominal value. Add 0.3 mm for color cameras.

Applications

Prosilica#GC655/GC655C is ideal for a wide range of applications including:

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