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Allied Vision

GigE Vision

# Prosilica GC
## 655




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

**Compact performance**

## Prosilica GC - Ultra-compact GigE Vision camera

Prosilica GC 655 with Sony ICX414 runs 90.0 frames per second at 0.3 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.

Allied Vision

## Specifications

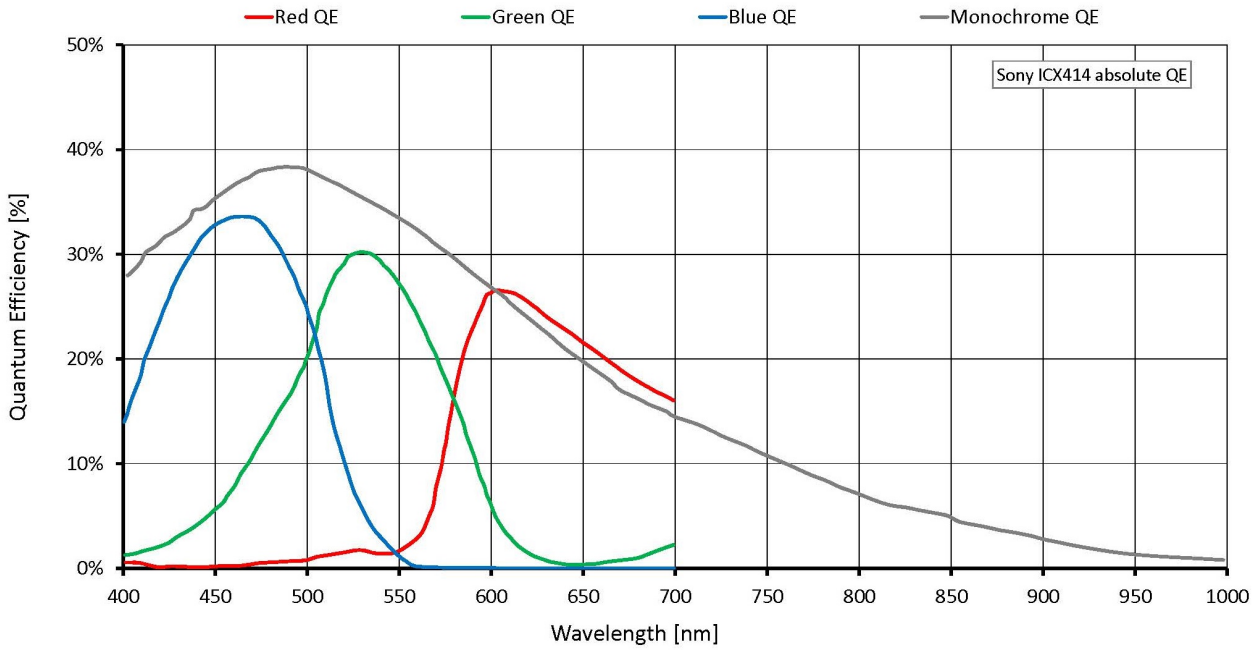
| | |
|---|---|
| Interface | IEEE 802.3 1000baseT |
| Resolution | 659 (H) × 493 (V) |
| Sensor | Sony ICX414 |
| Sensor type | CCD Progressive |
| Shutter mode | GS (Global shutter) |
| Sensor size | Type 1/2 |
| Pixel size | 9.9 µm × 9.9 µm |
| Lens mount (default) | C-Mount |
| Max. frame rate at full resolution | 90 fps |
| ADC | 12 Bit |
| Image buffer (RAM) | 16 MByte |

| **Output** | |
|---|---|
| Bit depth | 8/12 Bit |
| Monochrome pixel formats | Mono8, Mono12, Mono12Packed |
| RGB color pixel formats | RGB8Packed, BGR8Packed |
| Raw pixel formats | BayerRG8, BayerRG12, BayerGR12Packed |

| **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 W at 12 VDC |
| Mass | 100 g |
| Body dimensions (L × W × H in mm) | 59 × 46 × 33 (including connectors) |

# Quantum efficiency



# Features

## Image control: Auto

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

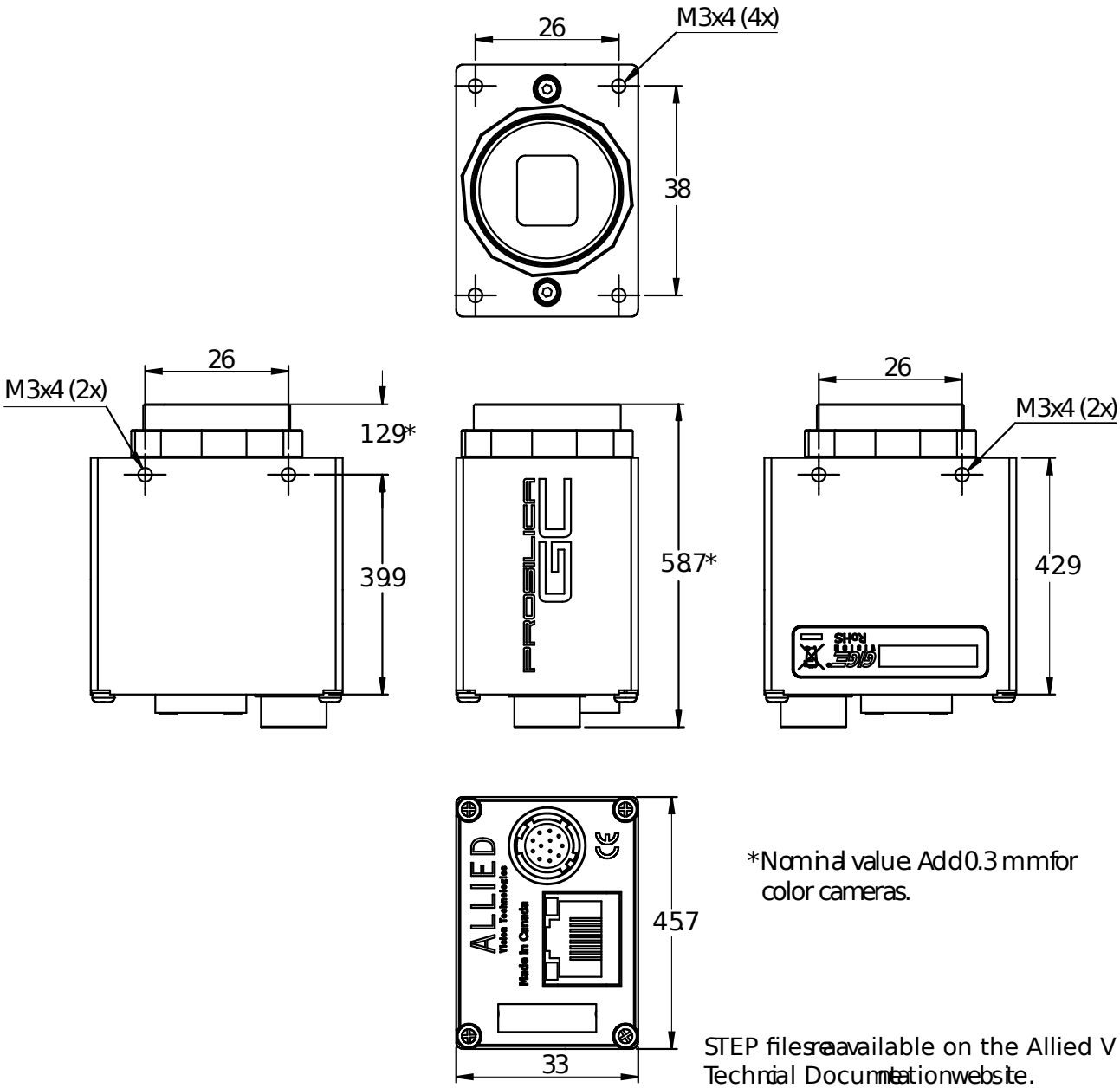
## Image control: Other

- Binning
- 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 GC655 is ideal for a wide range of applications including:

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

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