

Prosilica GC 650



- Sony ICX424 sensor
- 90 fps @ full resolution
- Rugged housing
- Video-type auto iris

基本描述

Very small VGA CCD camera with GigE Vision, 90 frames per second

Prosilica GC650 is a fast, VGA-resolution, high-performance machine vision camera with a GigE Vision compliant Gigabit Ethernet interface. The Sony ICX424 CCD sensor with HAD technology has excellent image quality and sensitivity. This camera is suitable for applications where speed and excellent image quality are key requirements. At full resolution, this camera has a frame rate of 90 frames per second. With a smaller region of interest higher frame rates are possible. By default monochrome models ship with no optical filter and color models ship with an IRC30 IR cut filter.

Options:

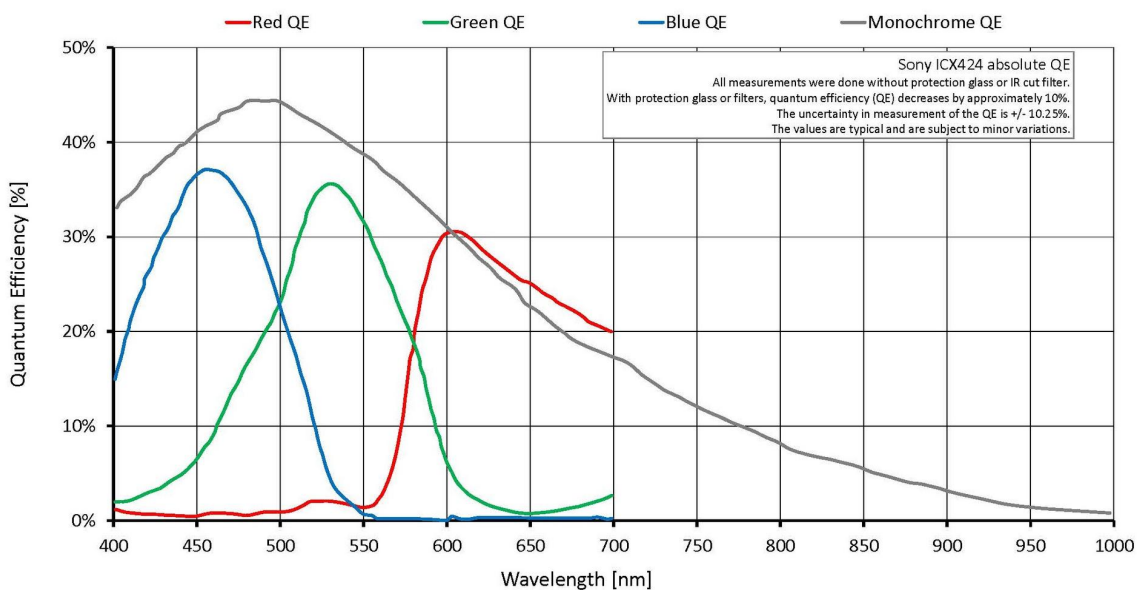
- CS-Mount
- Optical filters (IR cut filter/Protection glass)

See the [Modular Concept](#) for lens mount and optical filter options.

性能参数

| | |
|--------------|----------------------|
| Prosilica GC | 650 |
| 接口 | IEEE 802.3 1000baseT |
| 分辨率 | 659 (H) × 493 (V) |
| 传感器 | Sony ICX424 |
| 传感器类型 | CCD Progressive |
| 传感器尺寸 | Type 1/3 |

| | |
|-----------------------------------|---|
| Prosilica GC | 650 |
| 像元尺寸 | 7.4 μm \times 7.4 μm |
| 标准镜头接口 | C-Mount |
| 最大满帧帧率 | 90 fps |
| ADC | 12 bit |
| 缓存 (RAM) | 16 MByte |
| 输出 | |
| Bit位数 | 8/12 bit |
| 黑白像素格式 | Mono8, Mono12, Mono12Packed |
| RGB彩色像素格式 | RGB8Packed, BGR8Packed |
| 原始像素格式 | BayerRG8, BayerRG12, BayerGR12Packed |
| 通用输入输出(GPIOs) | |
| TTL I/Os | 1 input, 1 output |
| 光耦 I/Os | 1 input, 1 output |
| RS232 | 1 |
| 工作条件/尺寸 | |
| 工作温度 | 0 $^{\circ}\text{C}$ to +50 $^{\circ}\text{C}$ ambient (without condensation) |
| 电源要求 (DC) | 5 to 25 VDC |
| 功耗 | 3 W at 12 VDC |
| 重量 | 99 g |
| 尺寸(L \times W \times H in mm) | 59 \times 46 \times 33 (including connectors) |
| 符合规范 | CE: 2014/30/EU (EMC), 2011/65/EU, including amendment 2015/863/EU (RoHS); FCC Class A; CAN ICES-003 |





特性

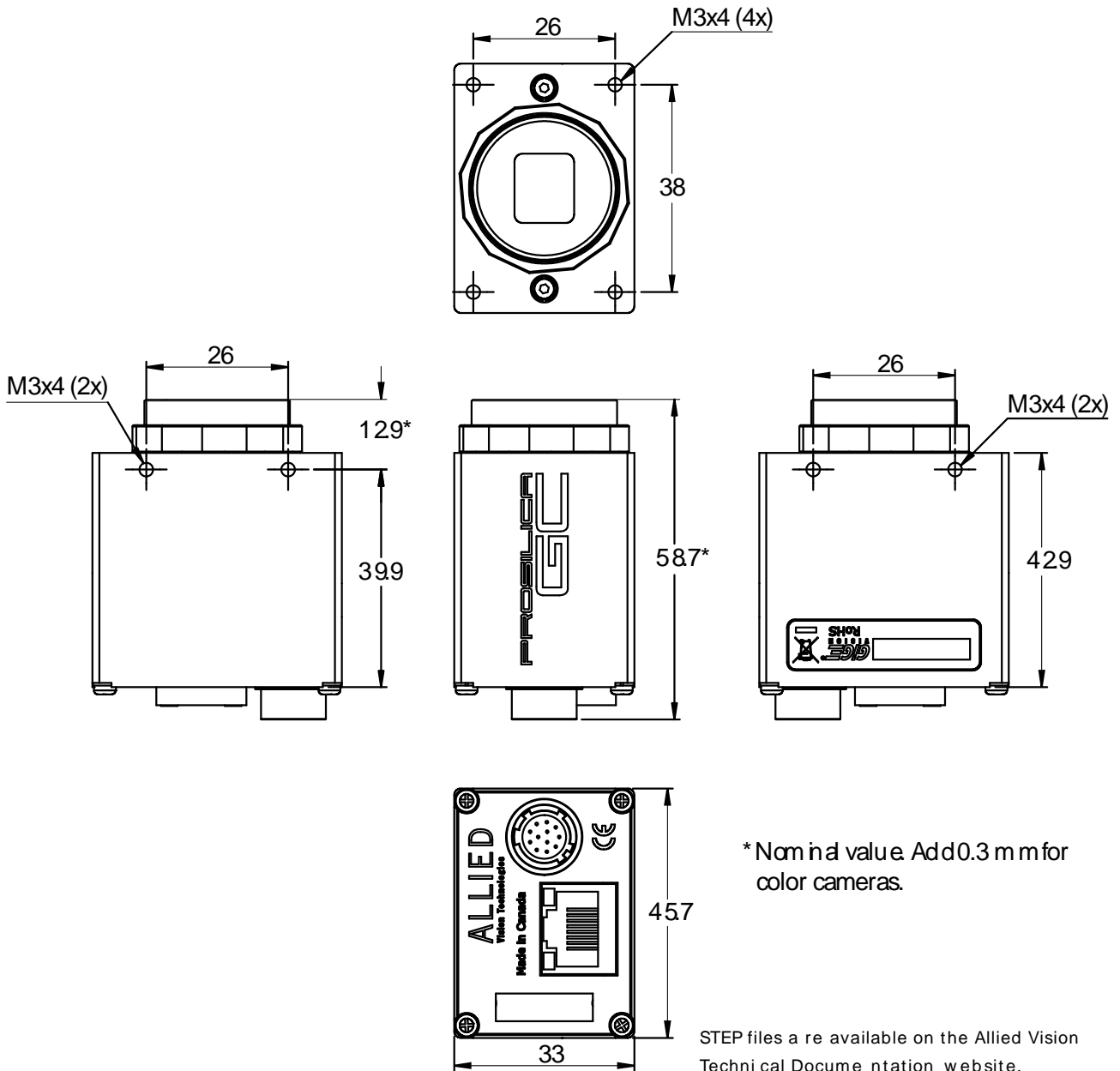
Image optimization features:

- Auto gain (manual gain control: 0 to 19 dB)
- Auto exposure (manual exposure control: 8 μ s to 116.8 s @ 1 μ s increments)
- Auto white balance
- Binning (horizontal and vertical) (sum)
- 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
- Five storable user sets
- StreamBytesPerSecond (bandwidth control)
- Stream hold
- Sync out modes: Trigger ready, input, exposing, readout, imaging, strobe, GPO

外形尺寸





应用场景

Prosilica GC650 is ideal for a wide range of applications including:

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