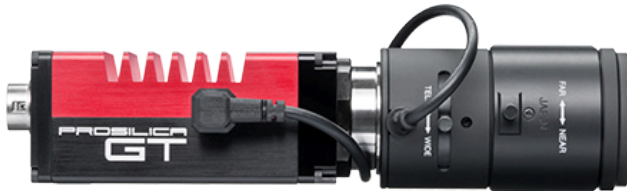


# Prosilica GT 1660C



- Versatile temperature range for extreme environments
- IEEE 1588 PTP
- Power over Ethernet
- P-Iris and DC-Iris lens control

## 1.9 megapixel machine vision camera for extreme environments

Prosilica GT1660C is a 1.9 megapixel camera with a GigE Vision compliant Gigabit Ethernet port and Hirose I/O port. This camera incorporates the high-quality ON Semi KAI-02050 TRUESENSE CCD sensor providing excellent color image quality. At full resolution, this camera runs 62.1 frames per second. With a smaller region of interest, higher frame rates are possible. It is a rugged camera designed to operate in extreme environments and fluctuating lighting conditions. This camera offers Precise iris lens control allowing users to fix the aperture size to optimize depth of field, exposure, and gain without the need for additional control elements. By default color models ship with a Type IRC30 IR cut filter.

### Benefits and features

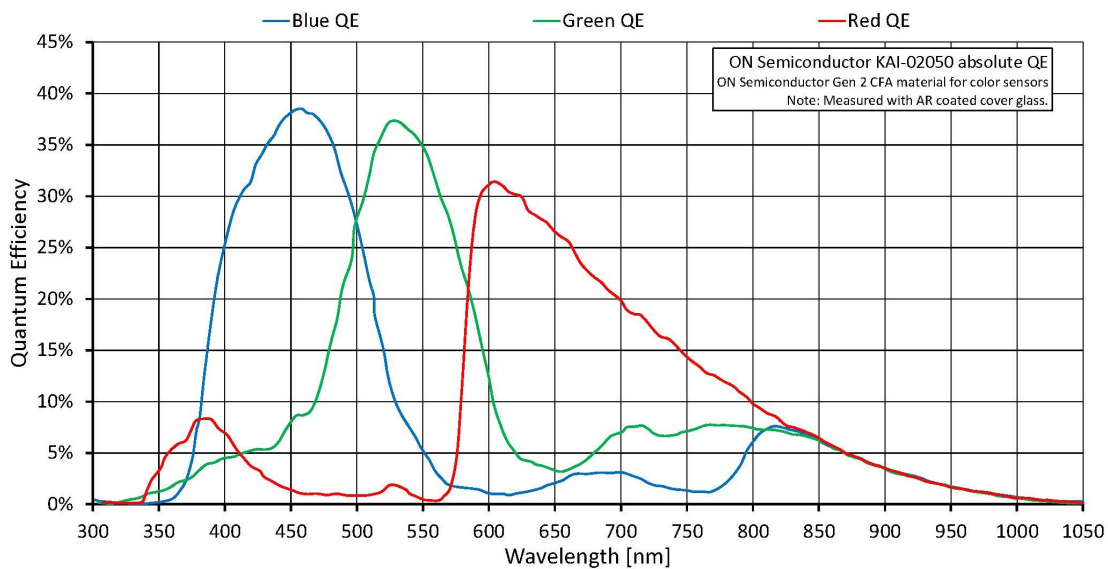
- GigE Vision interface with Power over Ethernet
- Screw mount RJ45 Ethernet connector for secure operation in industrial environments
- Supports cable lengths up to 100 meters (CAT-6 recommended)
- Trigger over Ethernet Action Commands allow for a single cable solution to reduce system costs
- Comprehensive I/O functionality for simplified system integration
- Easy camera mounting via standard M3 threads or optional tripod adapter
- Easy software integration with Allied Vision's [Vimba Suite](#) and compatibility to the most popular [third party image-processing libraries](#).
- Defect pixel column masking feature with the Load Defect Tables tool that allows you to manage a user defined defective pixel list to match your application and optimize the life cycle of the camera.

## 性能参数

Prosilica GT	1660C
接口	IEEE 802.3 1000BASE-T, IEEE 802.3af (PoE)
分辨率	1600 (H) × 1200 (V)
传感器	ON Semi KAI-02050
传感器类型	CCD Progressive
Shutter mode	Global shutter
传感器尺寸	Type 2/3
像元尺寸	5.5 μm × 5.5 μm
Lens mounts (available)	C-Mount, CS-Mount, F-Mount, M42-Mount
最大满帧帧率	62.1 fps
ADC	14 Bit
缓存 (RAM)	128 MByte
成像性能	
<p>Imaging performance data is based on the evaluation methods in the EMVA 1288 Release 3.1 standard for characterization of image sensors and cameras. Measurements are typical values for monochrome models measured at full resolution without optical filter.</p>	
在波长为529nm下，量子转换效率	42 %
暗噪声	16.4 e <sup>-</sup>
饱和电子数	18900 e <sup>-</sup>
动态范围	61.0 dB
绝对灵敏度阈值	16.9 e <sup>-</sup>
输出	
Bit位数	12/14 Bit
黑白像素格式	Mono8
YUV彩色像素格式	YUV411Packed, YUV422Packed, YUV444Packed
RGB彩色像素格式	RGB8Packed, BGR8Packed, RGBA8Packed, BGRA8Packed
原始像素格式	BayerGR8, BayerGR12, BayerRG12Packed
通用输入输出(GPIOs)	
TTL I/Os	1 input, 2 outputs
光耦 I/Os	1 input, 2 outputs
RS232	1
工作条件/尺寸	
工作温度	-20 °C to +60 °C ambient (without condensation)
电源要求 (DC)	7 to 25 VDC AUX or 802.3at Type 1 PoE
功耗	5.1 W at 12 VDC; 6.3 W PoE

Prosilica GT	1660C
重量	224 g
尺寸 (L × W × H in mm)	92 × 53.3 × 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-3 (A)

## 量子转换效率



## 特性

### Image optimization features:

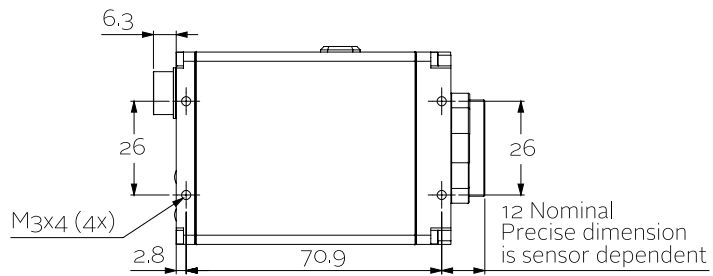
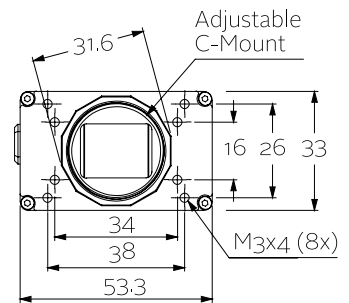
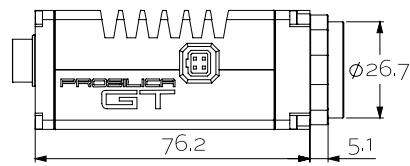
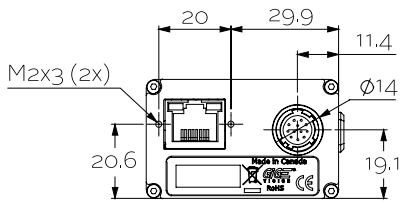
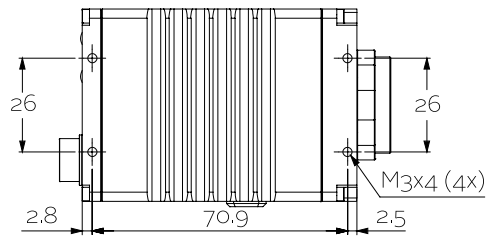
- Auto gain (manual gain control: 0 to 32 dB)
- Auto exposure (manual exposure control: 10  $\mu$ s to 26.8 s)
- Auto white balance
- Binning (horizontal and vertical)
- Color correction, hue, saturation
- Decimation X/Y
- Defect pixel column masking (user defined with Load Defect Tables tool)
- Gamma correction
- Three look-up tables
- Region of interest, separate region for auto features
- Reverse X/Y



## Camera control features:

- P-Iris and DC-Iris lens control
- Event channel
- Image chunk data
- IEEE 1588 Precision Time Protocol
- RS232
- Storable user sets
- StreamBytesPerSecond (bandwidth control)
- Stream hold
- Sync out modes: Trigger ready, input, exposing, readout, imaging, strobe, GPO
- Tap mode switchable in Vimba Viewer 2.0 or later (four-tap, one-tap)
- Temperature monitoring (main board and sensor board)
- Trigger over Ethernet Action Commands

## 外形尺寸





## 应用场景

Prosilica GT1660C is ideal for a wide range of applications including:

- Outdoor imaging
- Traffic imaging and Intelligent Traffic Systems
- Public security and surveillance
- Industrial inspection
- Machine vision
- Military and space applications