

Prosilica GX

1660



- 240 MBps with dual port LAG technology
- 3-axis motorized lens control
- High frame rate at full bit depth
- ON Semi KAI-02050 sensor

Description

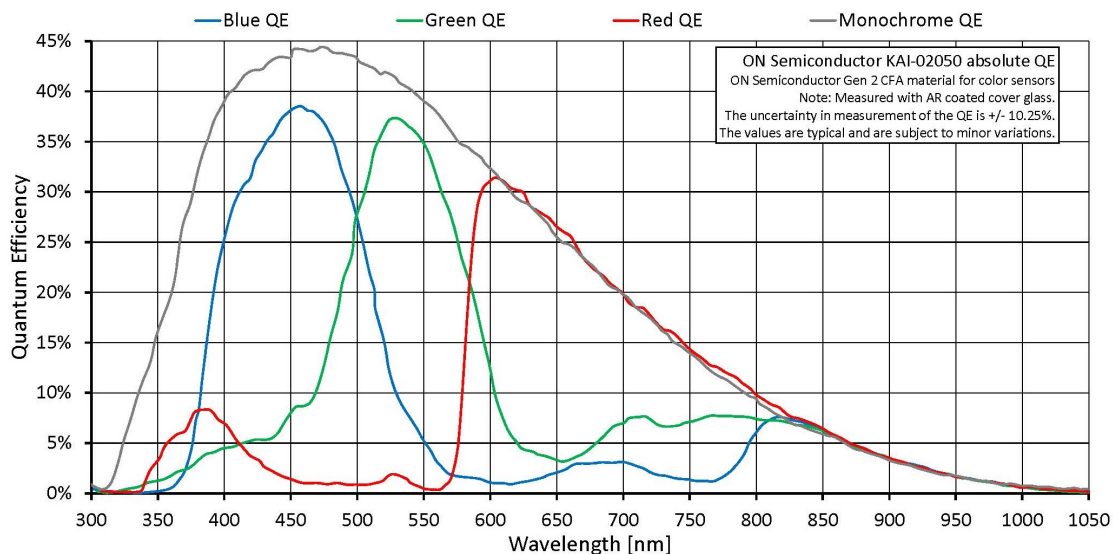
GigE Vision camera, ON Semi KAI-02050 CCD sensor, 66 fps

Prosilica GX1660 is a high resolution CCD camera with dual Gigabit Ethernet ports (GigE Vision®). This camera incorporates a high-quality 2/3" ON Semiconductor KAI-02050 CCD sensor providing excellent monochrome and color image quality in 4:3 format. At full resolution, this camera has a frame rate of 66 frames per second. With a smaller region of interest higher frame rates are possible. This camera has two screw-captivated Gigabit Ethernet ports configured as a Link Aggregation Group (LAG) to provide a sustained maximum data rate of 240 MBps. It can also work at half the bandwidth (120 MBps) using a single cable. By default monochrome models ship with no optical filter and color models ship with an IRC30 IR cut filter.

Specifications

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|------------------------------------|---------------------------------|
| Prosilica GX | 1660 |
| Interface | IEEE 802.3 1000baseT |
| Resolution | 1600 (H) × 1200 (V) |
| Sensor | ON Semi KAI-02050 |
| Sensor type | CCD Progressive |
| Sensor size | Type 2/3 |
| Pixel size | 5.5 μm × 5.5 μm |
| Lens mount (default) | C-Mount |
| Max. frame rate at full resolution | 66 fps |
| ADC | 14 bit |
| Image buffer (RAM) | 128 MByte |
| | Output |
| Bit depth | 14 (monochrome); 12 (color) bit |

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| Prosilica GX | 1660 |
| Monochrome pixel formats | Mono8, Mono12, Mono12Packed, Mono14 |
| RGB color pixel formats | RGB8Packed, BGR8Packed, RGBA8Packed, BGRA8Packed, RGB12Packed |
| Raw pixel formats | BayerGR8, BayerGR12, BayerGR12Packed |
| General purpose inputs/outputs (GPIOs) | |
| Opto-isolated I/Os | 2 inputs, 4 outputs |
| RS232 | 1 |
| Operating conditions/dimensions | |
| Operating temperature | 0 °C to +50 °C ambient (without condensation) |
| Power requirements (DC) | 10 to 24 VDC |
| Power consumption | 5.6 W at 12 VDC (Single GigE Mode); 6.7 W at 12 VDC (Dual GigE Mode) |
| Mass | 269 g |
| Body dimensions (L × W × H in mm) | 107.2 × 53.3 × 33 (including connectors) |
| Regulations | CE: 2014/30/EU (EMC), 2011/65/EU, including amendment 2015/863/EU (RoHS); FCC Class A; CAN ICES-003 |



Features

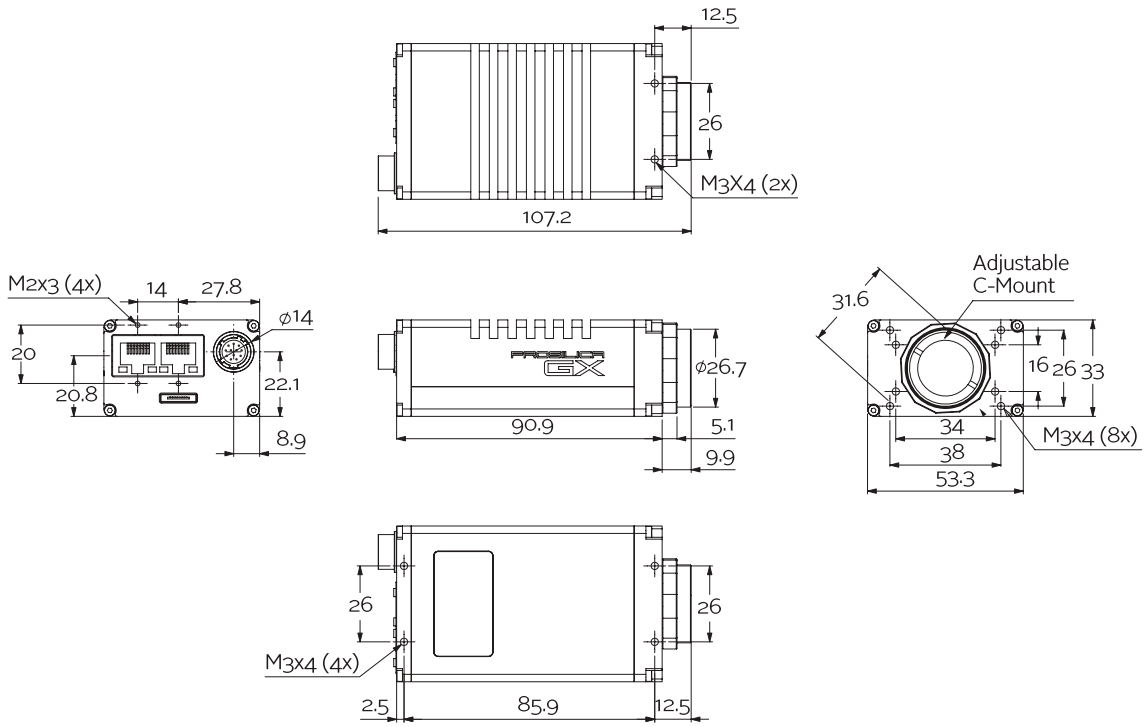
Prosilica GX1660 features include:

- 3-axis motorized lens control



- Video-type auto iris
- Region of interest (ROI), DSP subregion (selectable ROI for auto features)
- Binning (Sum)
- Auto gain (manual gain control: 0 to 34 dB)
- Auto exposure (manual exposure controls: 10 μ s to 26.8 s)
- Auto white balance
- StreamBytesPerSecond (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 set

Technical drawing





Applications

Prosilica GX1660 is ideal for a wide range of applications including:

- Industrial inspection
- Machine vision
- LCD panel inspection
- Medical imaging
- Ophthalmology
- Aeronautical and aerospace
- Public security
- Surveillance
- Traffic imaging
- OEM applications