

Prosilica GE 1660



- 34 fps @ full resolution
- ON Semi KAI-02050 sensor
- Galvanically isolated I/O
- Various lens mount options

Description

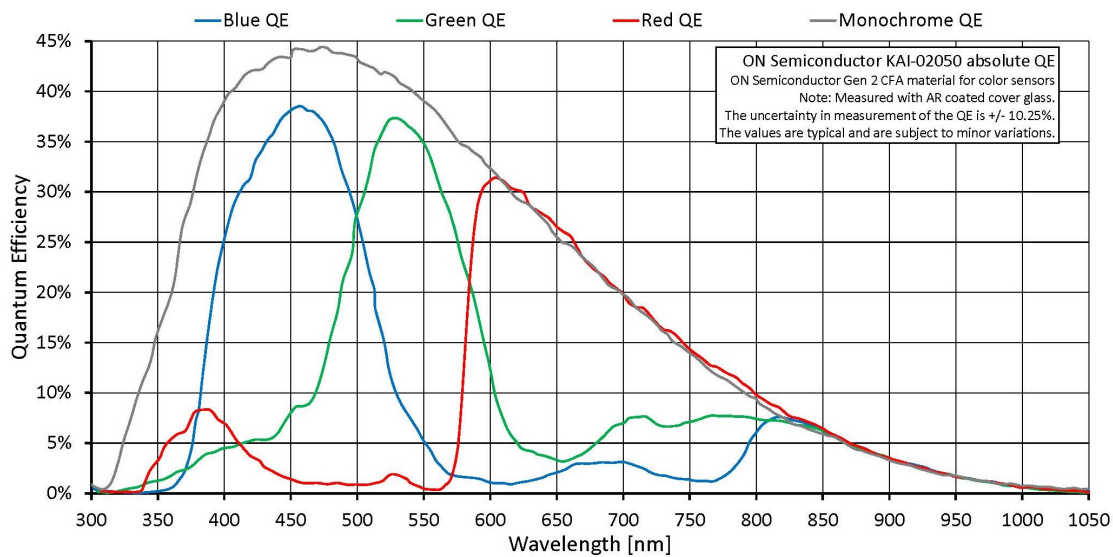
1.9 Megapixel CCD camera, GigE Vision interface, 34 frames per second

Prosilica GE1660 is a high-resolution CCD camera with Gigabit Ethernet interface (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. This camera runs 34 frames per second at full resolution and even faster with region of interest readout. 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 GE | 1660 |
| インターフェイス | IEEE 802.3 1000baseT |
| 解像度 | 1600 (H) × 1200 (V) |
| センサー | ON Semi KAI-02050 |
| Sensor type | CCD Progressive |
| センサーサイズ | Type 2/3 |
| ピクセルサイズ | 5.5 μm × 5.5 μm |
| レンズマウント (標準搭載) | C-Mount |
| フレームレート (フル解像度) | 34 fps |
| ADC | 12 bit |
| Image buffer (RAM) | 32 MByte |
| | Output |
| Bit depth | 8/12 bit |
| ビデオフォーマット(Mono) | Mono8, Mono12, Mono12Packed |
| ビデオフォーマット(YUV) | YUV411Packed |

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| Prosilica GE | 1660 |
| ビデオフォーマット(RGB) | RGB8Packed, BGR8Packed, RGBA8Packed, BGRA8Packed, RGB12Packed |
| ビデオフォーマット(Raw) | BayerGR8, BayerGR12, BayerGR12Packed |
| General purpose inputs/outputs (GPIOs) | |
| TTL I/Os | 1 input, 3 outputs (with galvanic isolation) |
| RS232 | 1 |
| Operating conditions/dimensions | |
| Operating temperature | 0 °C to +50 °C ambient (without condensation) |
| Power requirements (DC) | 5 to 24 VDC |
| 消費電力 | 5 W at 12 VDC |
| Mass | 178 g |
| Body dimensions (L × W × H in mm) | 80 × 51 × 39 (including connectors) |
| Regulations | CE: 2014/30/EU (EMC), 2011/65/EU, including amendment 2015/863/EU (RoHS); FCC Class A |



Features

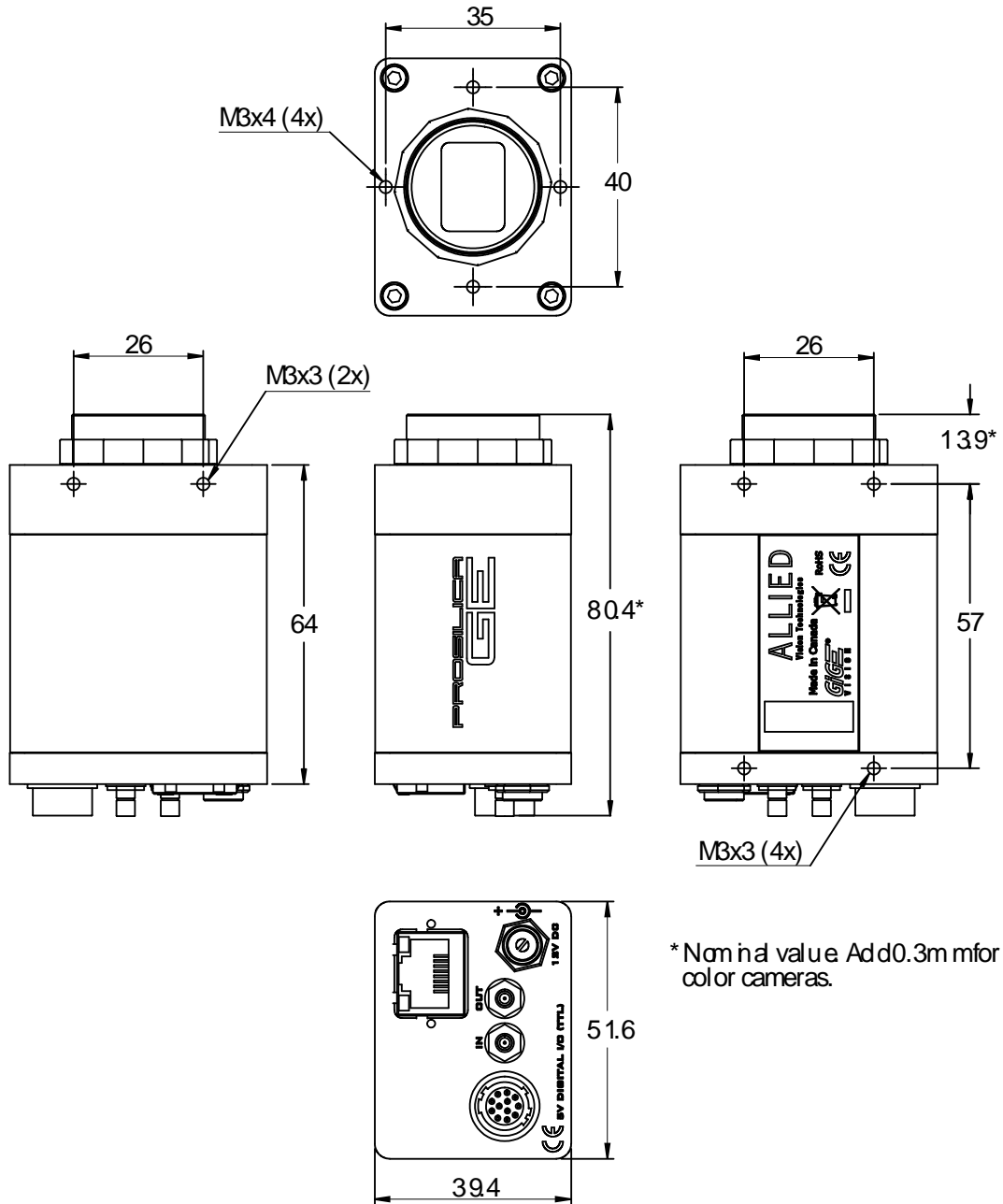
Prosilica GE1660 features include:

- 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 μs to 53.7 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
- Image chunk data
- Storable user sets

Technical drawing



* Nominal value Add 0.3mm for color cameras.



Applications

Prosilica GE1660 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