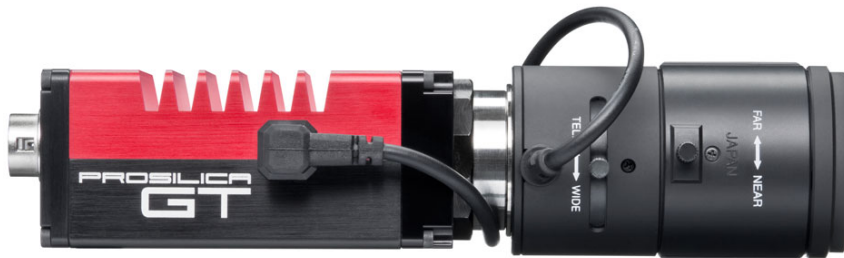


GT1660/1660C



Description

2 Megapixel CCD camera for extreme environments - GigE Vision®

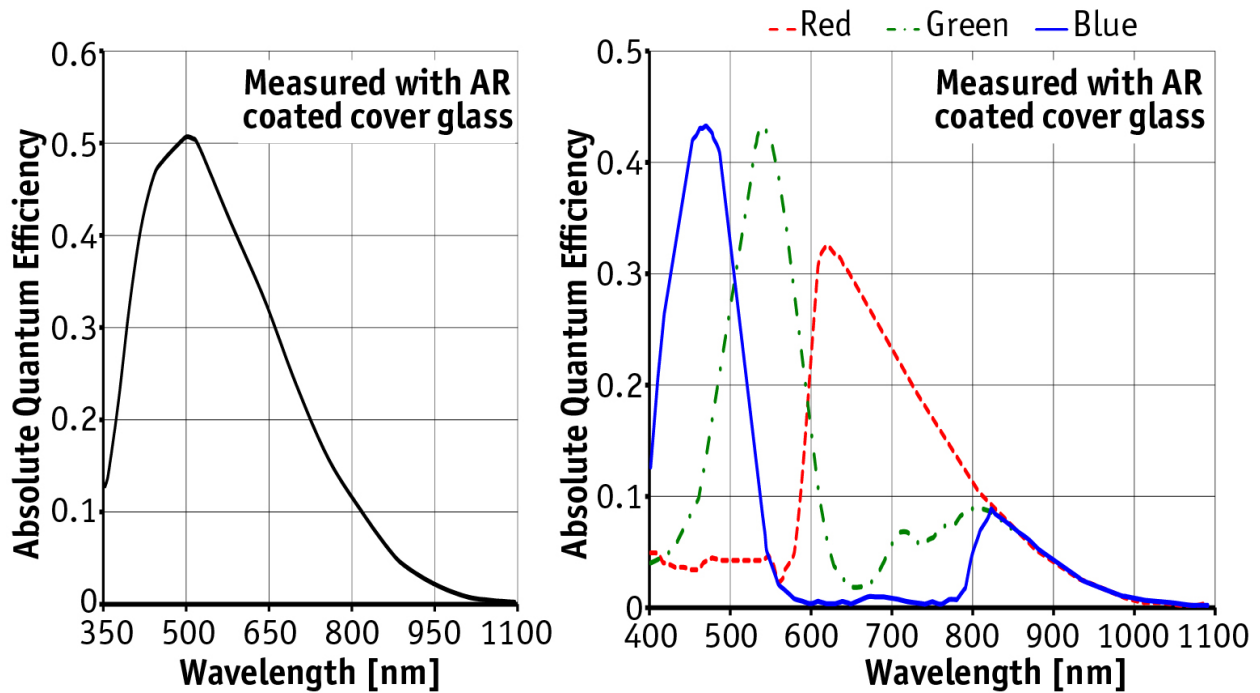
The Prosilica GT1660 is a 2 Megapixel camera with a Gigabit Ethernet interface (GigE Vision®). The GT1660 is a rugged camera designed to operate in extreme environments and fluctuating lighting conditions. It offers Precise iris lens control allowing users to fix the aperture size to optimize depth of field, exposure and gain without the need for additional control elements.

- Truesense KAI-02050 sensor
- Auto Iris (P-Iris and DC)
- Power over Ethernet (PoE)
- Ethernet surge suppression
- Gamma, color correction
- Metadata (Chunk data)
- Clock synchronization (IEEE1588)
- Wide operating temperature range
- Global shutter (digital shutter)
- Camera and sensor temperature monitoring
- **Models:**
 - GT1660, 1600 x 1200, 62 fps, CCD mono
 - GT1660C, 1600 x 1200, 62 fps, CCD color

Specifications

Prosilica GT		1660	
Interface	IEEE 802.3 1000BASE-T, IEEE 802.3af (PoE)		
Resolution	1600x1200		
Sensor	Truesense KAI-02050		
Sensor type	CCD Progressive		
Sensor size	Type 2/3		
Cell size	5.5 μm		
Lens mount	C (adjustable)		
Max frame rate at full resolution	62 fps		
A/D	14 bit		
On-board FIFO	128 MB		
Output			
Bit depth	14 (mono) - 12 (color) bit		
Mono modes	Mono8, Mono12, Mono12Packed, Mono14		
Color modes YUV	YUV411Packed, YUV422Packed		
Color modes RGB	RGB8Packed, BGR8Packed, RGBA8Packed, BGRA8Packed		
Raw modes	BayerGR8, BayerGR12, BayerGR12Packed		
General purpose inputs/outputs (GPIOs)			
TTL I/Os	1 input, 2 outputs		
Opto-coupled I/Os	1 input, 2 outputs		
RS-232	1		
Operating conditions/Dimensions			
Operating temperature	-20°C ... +60°C		
Power requirements (DC)	PoE, or 7-25 VDC		
Power consumption (12 V)	5.1 W@ 12 VDC		
Mass	224 g		
Body Dimensions (L x W x H in mm)	92 x 53.3 x 33 (including connectors, w/o tripod and lens)		
Regulations	CE, FCC Class A, RoHS (2011/65/EU)		

[Download the Prosilica GT1660 technical drawing](#)



Smart features

The Prosilica GT1660 features include:

- Auto exposure, auto gain, and auto white balance
- Flexible binning
- Region of Interest (ROI) readout
- DSP subregion (selectable ROI for auto features)
- StreamBytesPerSecond (easy bandwidth control)
- Stream hold
- Asynchronous external trigger and sync I/O
- Auto Iris (P-Iris and DC)
- Power over Ethernet (PoE)
- Ethernet surge suppression
- Gamma
- Color correction
- Metadata (Chunk data)
- Clock synchronization (IEEE1588)
- Recorder and multiframe acquisition modes
- Camera and sensor temperature monitoring

White Paper

[Remote lens control with Prosilica GT cameras](#)

Applications

The Prosilica GT1660 is ideal for a wide range of applications including:

- Outdoor imaging
- Traffic imaging / ITS
- Public security and surveillance
- Industrial inspection
- Machine vision
- Military and space applications