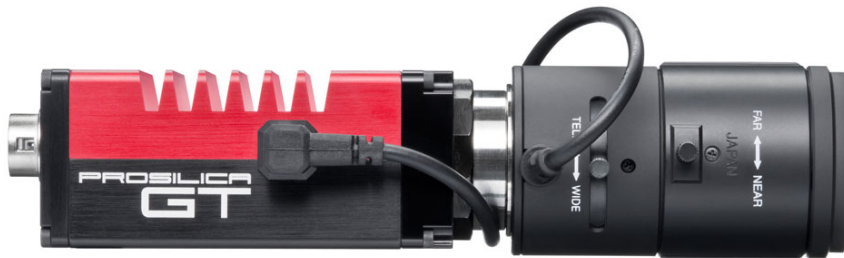# GT1600/1600C

Description

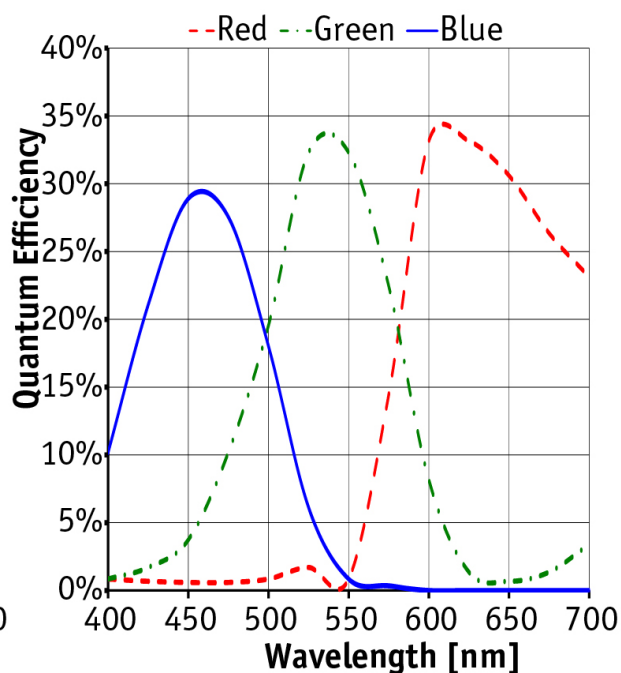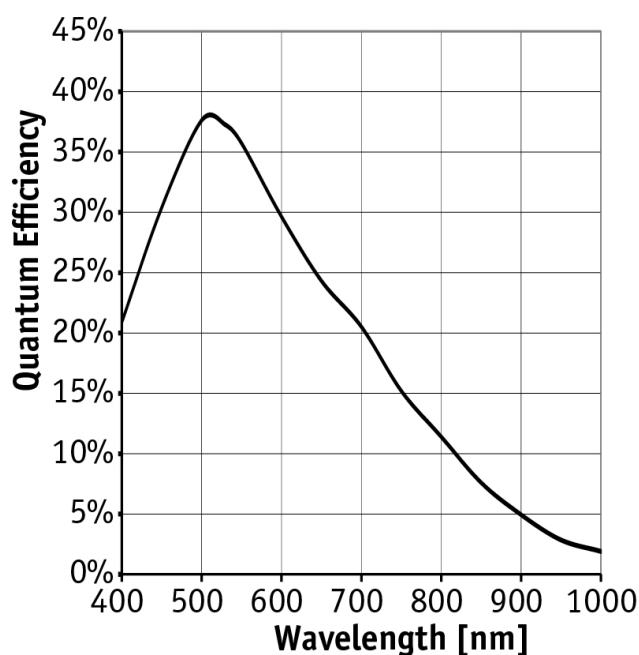**NEW: 2 Megapixel CCD camera for extreme environments - GigE Vision®**

The Prosilica GT1600 is a 2 Megapixel camera with a Gigabit Ethernet interface (GigE Vision®). The GT1600 is a rugged camera designed to operate in extreme environments and fluctuating lighting conditions. The GT1600 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.

- Sony ICX274 progressive scan CCD 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:**
    - GT1600, 1620 x 1220, 25 fps, CCD mono
    - GT1600C, 1620 x 1220, 25 fps, CCD color

Specifications

Prosilica GT	1600
Interface	IEEE 802.3 1000BASE-T, IEEE 802.3af (PoE)
Resolution	1620 x 1220
Sensor	Sony ICX274
Sensor type	CCD Progressive
Sensor size	Type 1/1.8
Cell size	4.4 µm
Lens mount	C (adjustable) / CS
Max frame rate at full resolution	25.8 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, YUV444Packed
Color modes RGB	RGB8Packed, BGR8Packed
Raw modes	BayerRG8, BayerRG12, 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 ... +65°C
Power requirements (DC)	PoE, or 7-25 VDC
Power consumption (12 V)	3.3 W @ 12 VDC
Mass	211 g
Body Dimensions (L x W x H in mm)	86 x 53.3 x 33 (including connectors, w/o tripod and lens)
Regulations	CE, FCC Class A, RoHS (2011/65/EU)

Download the Prosilica GT1600 technical drawing

Smart features

The Prosilica GT1600 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 mode
- Camera and sensor temperature monitoring

White Paper
Remote lens control with Prosilica GT cameras

Applications

The Prosilica GT1600 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