

# GT1600



## Description

**NEW: 2 Megapixel CCD camera for ITS and outdoor imaging - GigE Vision®**

**\*PRELIMINARY\***

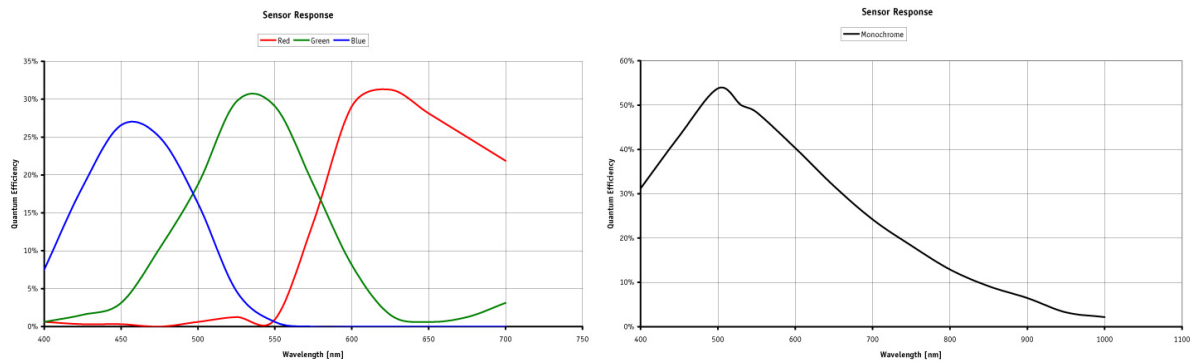
The Prosilica GT1600 is a 2 Megapixel camera with a Gigabit Ethernet interface (GigE Vision®). The GT1600 is a rugged camera designed to operate in extreme environments and fluctuating lighting conditions. The GT1600 offers Precise iris lens control allowing users to fix the aperture size to optimize 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, multiple LUT, color correction
- Metadata (Chunk data)
- Clock synchronization (IEEE1588)
- Wide operating temperature range
- Global shutter (digital shutter)
- **Models:**
  - GT1600, 1620x1220, 25 fps, CCD mono
  - GT1600C, 1620x1220, 25 fps, CCD color

## Specifications

<b>Prosilica GT</b>		<b>1600</b>
<b>Interface</b>	IEEE 802.3 1000baseT	
<b>Resolution</b>	1620 x 1220	
<b>Sensor</b>	Sony ICX274	
<b>Sensor type</b>	CCD Progressive	
<b>Sensor size</b>	Type 1/1.8	
<b>Cell size</b>	4.4 µm	
<b>Lens mount</b>	C-Mount	
<b>Max frame rate at full resolution</b>	25 fps	
<b>On-board FIFO</b>	128 MB	
<b>Output</b>		
<b>Bit depth</b>	8/14 bit	
<b>Mono modes</b>	Mono8, Mono12Packed, Mono16	
<b>Color modes YUV</b>	YUV411, YUV422, YUV444	
<b>Raw modes</b>	Bayer8, Bayer12Packed, Bayer16	
<b>General purpose inputs/outputs (GPIOs)</b>		
<b>TTL I/Os</b>	1 input, 2 outputs	
<b>Opto-coupled I/Os</b>	1 input, 2 outputs	
<b>RS-232</b>	1	
<b>Operating conditions/Dimensions</b>		
<b>Operating temperature</b>	-20°C ... +60°C	
<b>Power requirements (DC)</b>	8-26 V DC	
<b>Power consumption (12 V)</b>	tba	
<b>Mass</b>	211 g	
<b>Body Dimensions (L x W x H in mm)</b>	83.2 x 53.3 x 33 (including connectors, w/o tripod and lens)	
<b>Regulations</b>	CE, FCC Class A, RoHS	

[Download the Prosilica GT1600 technical drawing](#)



## Smart features

The Prosilica GT1600 features include:

- Auto Exposure
- Auto Gain
- Auto White balance
- Flexible Binning
- Region of Interest readout (AOI partial scan)
- 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
- Multiple LUT
- Color correction
- Metadata (Chunk data)
- Clock synchronization (IEEE1588)
- Recorder and Multiframe Acquisition Modes

## **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