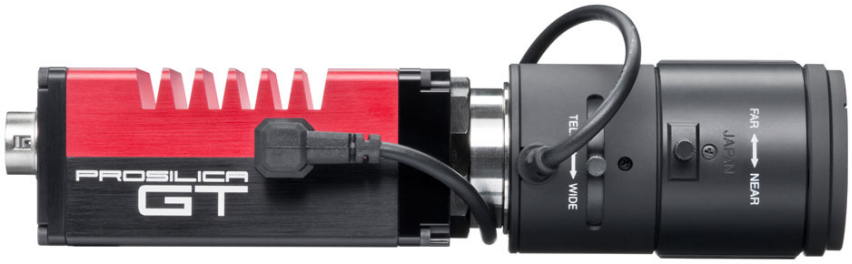
GT2300/2300C



GiGE VISION®

Description

4 Megapixel CCD camera for extreme environments - fast frame rates

The Prosilica GT2300 is a 4 Megapixel camera with a Gigabit Ethernet interface (GigE Vision®). The GT2300 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.

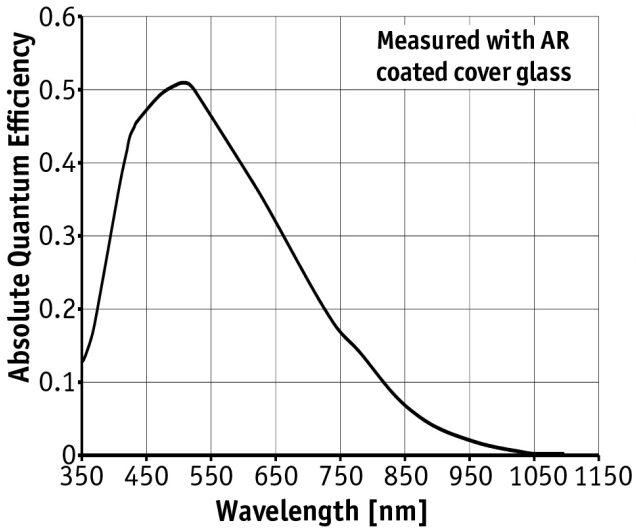
- Truesense KAI-04050 CCD sensor
- Auto Iris (P-Iris and DC)
- Power over Ethernet (PoE)
- Ethernet surge suppression
- Gamma, color correction
- Metadata (Chunk data), clock synchronization (IEEE1588)
- Wide operating temperature range
- Global shutter (digital shutter)
- Camera and sensor temperature monitoring

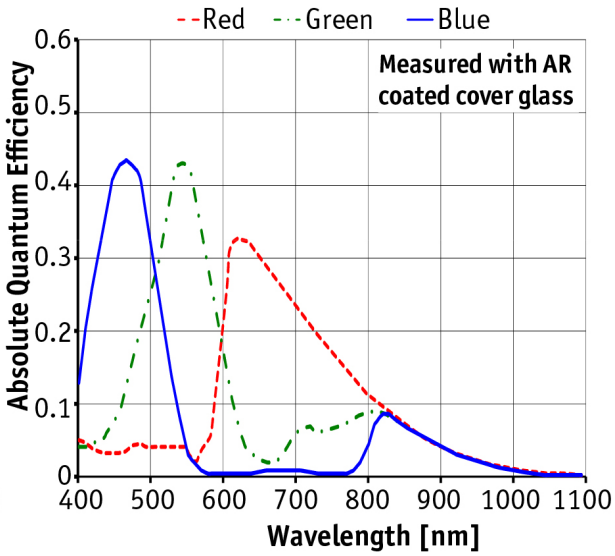
- **Models:**
  - GT2300, 2336 x 1752, 29 fps, CCD mono
  - GT2300C, 2336 x 1752, 29 fps, CCD color

Specifications

Prosilica GT	2300
Interface	IEEE 802.3 1000BASE-T, IEEE 802.3af (PoE)
Resolution	2336 x 1752
Sensor	Truesense KAI-04050
Sensor type	CCD Progressive
Sensor size	Type 1
Cell size	5.5 µm
Lens mount	C (adjustable)
Max frame rate at full resolution	29.3 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)	5.4 W @ 12 VDC
Mass	229 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 Prosilica GT2300 Technical drawing





Smart features

The Prosilica GT2300 features include:

- Auto exposure
- Auto gain
- 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 GT2300 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