GT4905/4905C

Description

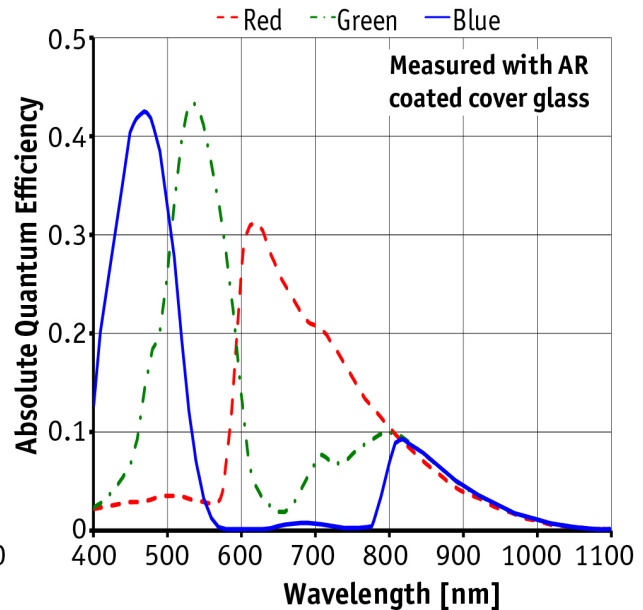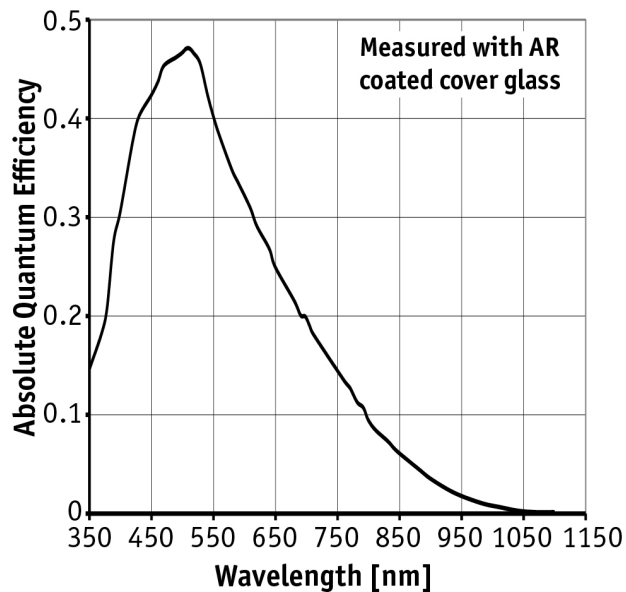**16 Megapixel CCD camera for extreme environments - GigE Vision®**

The Prosilica GT4905 is a 16 Megapixel camera with a Gigabit Ethernet interface (GigE Vision®). The GT4905 is a rugged camera designed to operate in extreme environments.

- Truesense KAI-16050 sensor
- 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:**
  - GT4905, 4896 x 3264, 7 fps, CCD mono
  - GT4905C, 4896 x 3264, 7 fps, CCD color

Specifications

Prosilica GT	4905
Interface	IEEE 802.3 1000baseT
Resolution	4896 x 3264
Sensor	Truesense KAI-16050
Sensor type	CCD Progressive
Sensor size	APS-H
Cell size	5.5 µm
Lens mount	F-Mount (M58 optional)
Max frame rate at full resolution	7.5 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 ... +50°C
Power requirements (DC)	PoE, or 7–25 VDC
Power consumption (12 V)	7.3 W @ 12 VDC
Mass	372 g
Body Dimensions (L x W x H in mm)	96 x 66 x 53.3 mm including connectors, w/o tripod and lens
Regulations	CE, FCC Class A, RoHS (2011/65/EU)

Download the Prosilica GT4905 technical drawing

Measured with AR coated cover glass

Measured with AR coated cover glass

Smart features

The Prosilica GT4905 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
- 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 GT4905 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