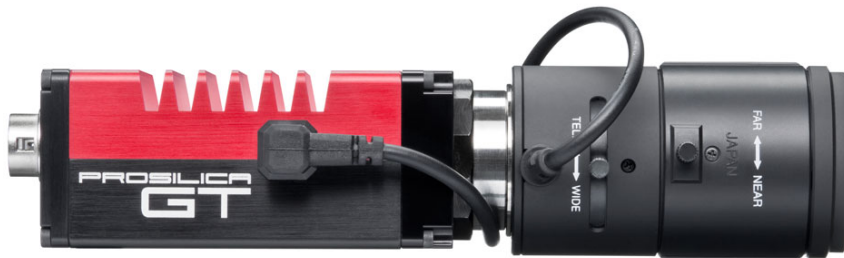


## GT2050/2050C



### Description

#### **NEW: 4 Megapixel camera for Extreme environments - fast frame rates**

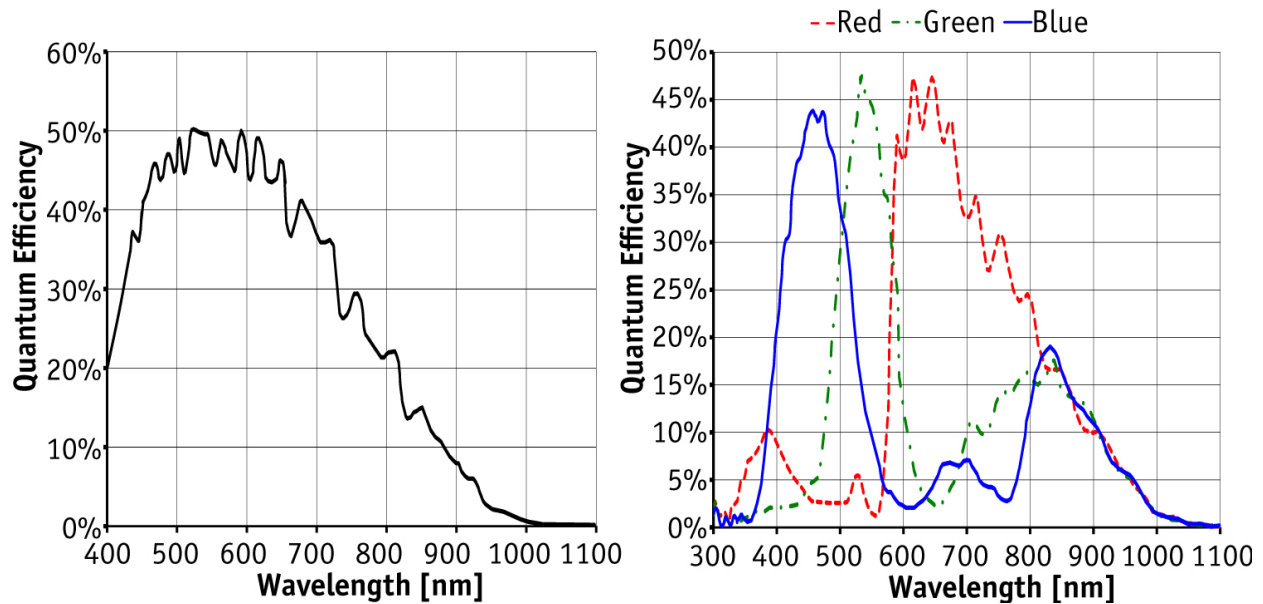
The Prosilica GT2050 is a 4 Megapixel camera with a Gigabit Ethernet interface (GigE Vision®). The GT2050 is a rugged camera designed to operate in extreme environments and fluctuating lighting conditions. It offers Precise iris lens control allowing users to fix the aperture size to optimize depth of field, exposure and gain without the need for additional control elements. The GT2050 incorporates the new CMOSIS CMV-4000 sensor.

- CMOSIS CMV4000 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:
  - GT2050, 2048 x 2048, 28 fps, CMOSIS mono
  - GT2050C, 2048 x 2048, 28 fps, CMOSIS color

## Specifications

<b>Prosilica GT</b>		<b>2050</b>	
<b>Interface</b>	IEEE 802.3 1000baseT		
<b>Resolution</b>	2048 x 2048		
<b>Sensor</b>	CMOSIS CMV4000		
<b>Sensor type</b>	CMOS Progressive		
<b>Sensor size</b>	Type 1		
<b>Cell size</b>	5.5 $\mu\text{m}$		
<b>Lens mount</b>	C (adjustable)		
<b>Max frame rate at full resolution</b>	28.6 fps		
<b>A/D</b>	12 bit		
<b>On-board FIFO</b>	128 MB		
<b>Output</b>			
<b>Bit depth</b>	8/12 bit		
<b>Mono modes</b>	Mono8, Mono12, Mono12Packed		
<b>Color modes YUV</b>	YUV411Packed, YUV422Packed, YUV422Packed		
<b>Color modes RGB</b>	RGB8Packed, BGR8Packed		
<b>Raw modes</b>	BayerGB8, BayerGB12, BayerGB12Packed		
<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 ... +65°C		
<b>Power requirements (DC)</b>	PoE, or 7-25 VDC		
<b>Power consumption (12 V)</b>	3.5 W @ 12 VDC		
<b>Mass</b>	210 g		
<b>Body Dimensions (L x W x H in mm)</b>	86 x 53.3 x 33 mm including connectors, w/o tripod and lens		
<b>Regulations</b>	CE, FCC Class A, RoHS (2011/65/EU)		

[Download the Prosilica GT2050 technical drawing](#)



## Smart features

The Prosilica GT2050 features include:

- Auto exposure
- Auto gain
- Auto white balance
- 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
- Multiple LUT
- Color correction
- Metadata (Chunk data)
- Clock synchronization (IEEE1588)
- Recorder and multiframe acquisition modes

## White Paper

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

## Applications

The Prosilica GT2050 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