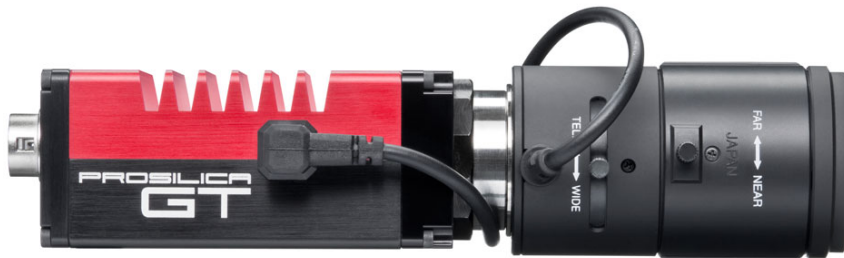


GT2050/2050C



Description

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

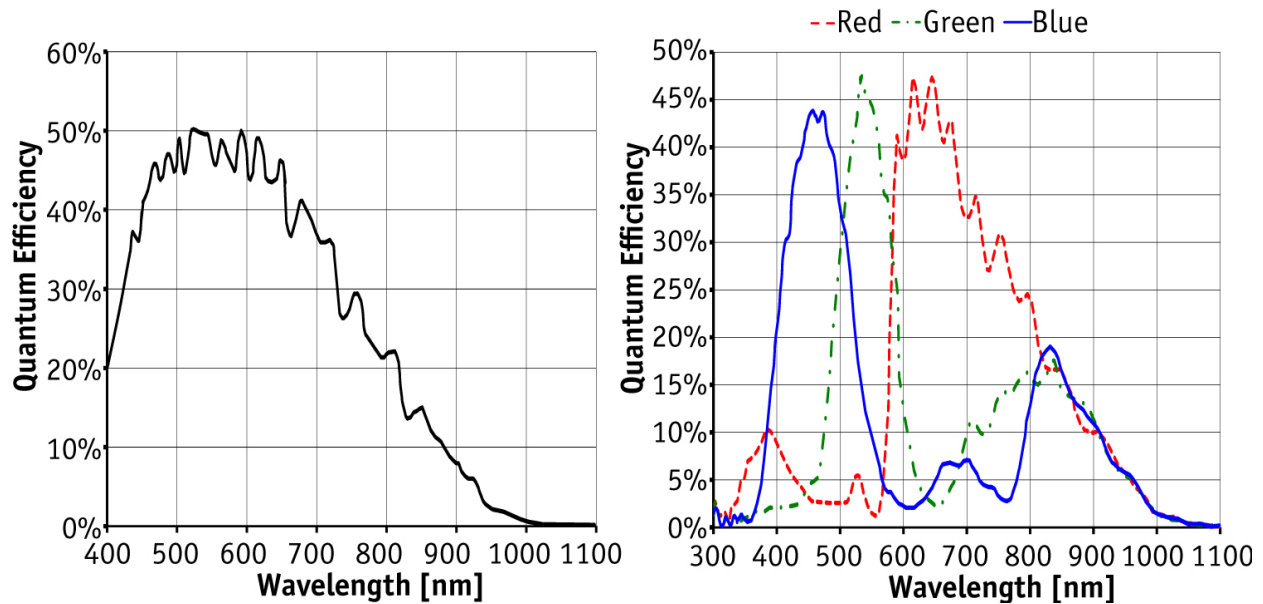
The Prosilica GT2050 is a 4 Megapixel camera with a Gigabit Ethernet interface (GigE Vision®). The GT2050 is a rugged camera designed to operate in extreme environments and fluctuating lighting conditions. It offers Precise iris lens control allowing users to fix the aperture size to optimize depth of 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

Prosilica GT		2050	
Interface	IEEE 802.3 1000baseT		
Resolution	2048 x 2048		
Sensor	CMOSIS CMV4000		
Sensor type	CMOS Progressive		
Sensor size	Type 1		
Cell size	5.5 µm		
Lens mount	C (adjustable)		
Max frame rate at full resolution	28.6 fps		
A/D	12 bit		
On-board FIFO	128 MB		
Output			
Bit depth	8/12 bit		
Mono modes	Mono8, Mono12, Mono12Packed		
Color modes YUV	YUV411Packed, YUV422Packed, YUV444Packed		
Color modes RGB	RGB8Packed, BGR8Packed, RGBA8Packed, BGRA8Packed		
Raw modes	BayerGB8, BayerGB12, BayerGB12Packed		
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)	3.5 W @ 12 VDC		
Mass	210 g		
Body Dimensions (L x W x H in mm)	86 x 53.3 x 33 mm including connectors, w/o tripod and lens		
Regulations	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