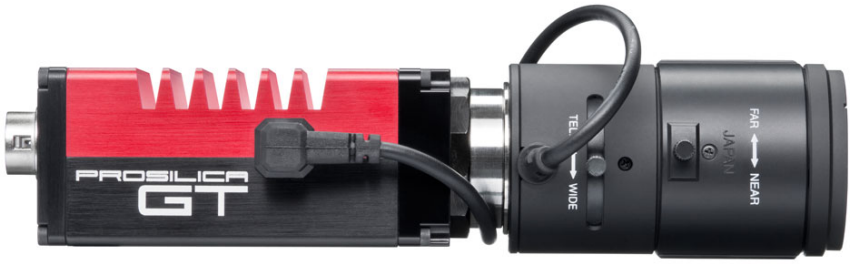
GT2050/2050C



GiGE VISION®

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.

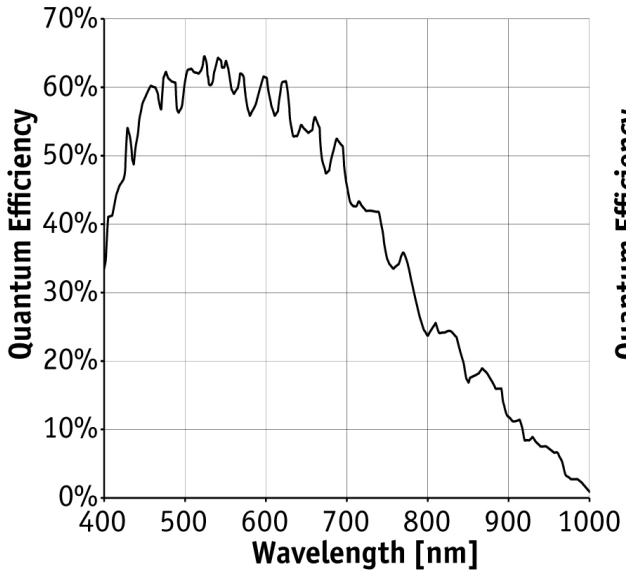
- CMOSIS CMV4000 sensor
- 28.6 fps @ 124 MB/s; 32 burst mode
- Auto Iris (P-Iris and DC)
- Power over Ethernet (PoE)
- Ethernet surge suppression
- Gamma, multiple LUT, color correction
- Metadata (Chunk data), clock synchronization (IEEE1588)
- Wide operating temperature range
- Global shutter (digital shutter)
- Camera temperature monitoring

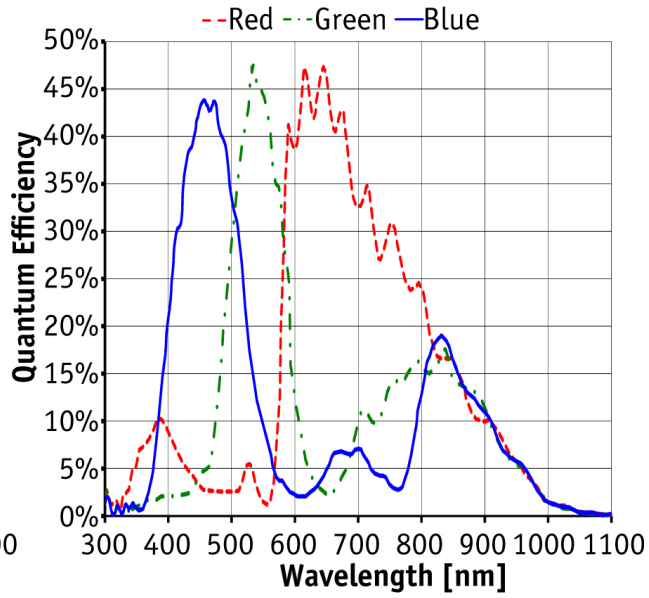
- **Models**:
  - GT2050, 2048 x 2048, CMOSIS mono
  - GT2050C, 2048 x 2048, CMOSIS color

Specifications

Prosilica GT	2050
Interface	IEEE 802.3 1000BASE-T, IEEE 802.3af (PoE)
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
- Camera temperature monitoring

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