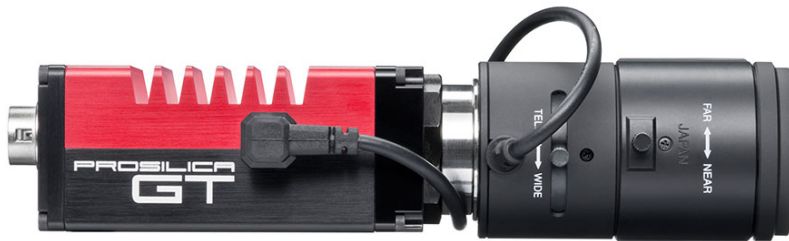


## GT2050 NIR



### Description

#### **NEW: 4 Megapixel CMOS NIR enhanced camera for extreme environments - fast frame rates**

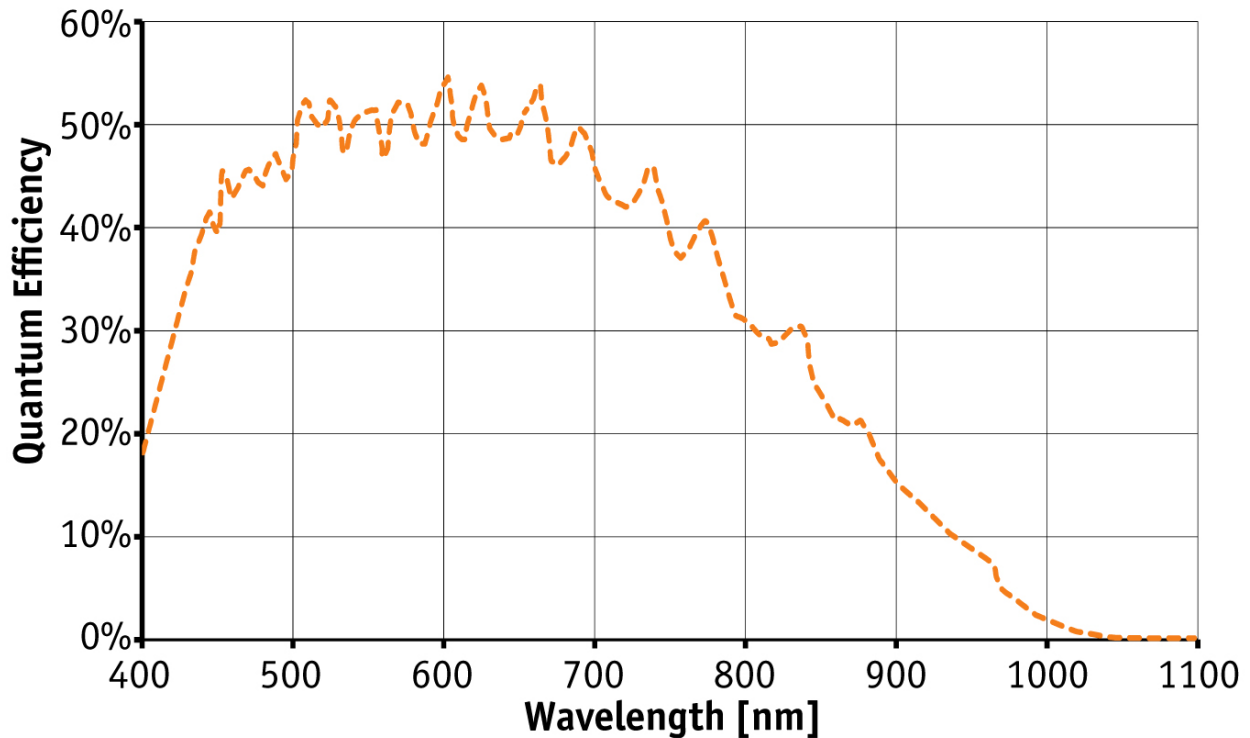
The Prosilica GT2050 NIR is a 4 Megapixel camera equipped with a NIR optimized variant of the CMOSIS CMV4000 sensor. At 900 nm this sensor offers double the quantum efficiency, an increase from 8% to 16% absolute. The GT2050 NIR is a rugged camera designed to operate in extreme environments and fluctuating 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.

- CMOSIS CMV4000 sensor: NIR variant
- 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)
- **Model:**
  - GT2050 NIR, 2048 x 2048, 28 fps, CMOSIS mono - NIR enhanced

## Specifications

Prosilica GT	2050 NIR
<b>Interface</b>	IEEE 802.3 1000baseT
<b>Resolution</b>	2048 x 2048
<b>Sensor</b>	CMOSIS CMV4000 NIR enhanced
<b>Sensor type</b>	CMOS Progressive
<b>Sensor size</b>	Type 1
<b>Cell size</b>	5.5 $\mu$ 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>	n/a
<b>Color modes RGB</b>	n/a
<b>Raw modes</b>	n/a
<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 NIR technical drawing](#)



## Smart features

The Prosilica GT2050 NIR 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

## **Applications**

The Prosilica GT2050 NIR is ideal for a wide range of applications including:

- Outdoor imaging
- Traffic imaging / ITS
- Public security and surveillance
- Industrial inspection
- Machine vision
- Microscopy
- Medical and healthcare
- ... and many more