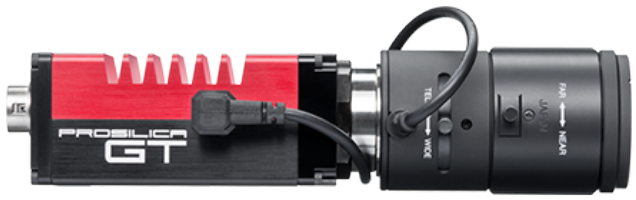
Allied Vision

# Prosilica GT

## 2050 NIR




- Versatile temperature range for extreme environments
- CMOSIS CMOS sensor
- PTP and PoE
- P-Iris and DC-Iris lens control

## Description

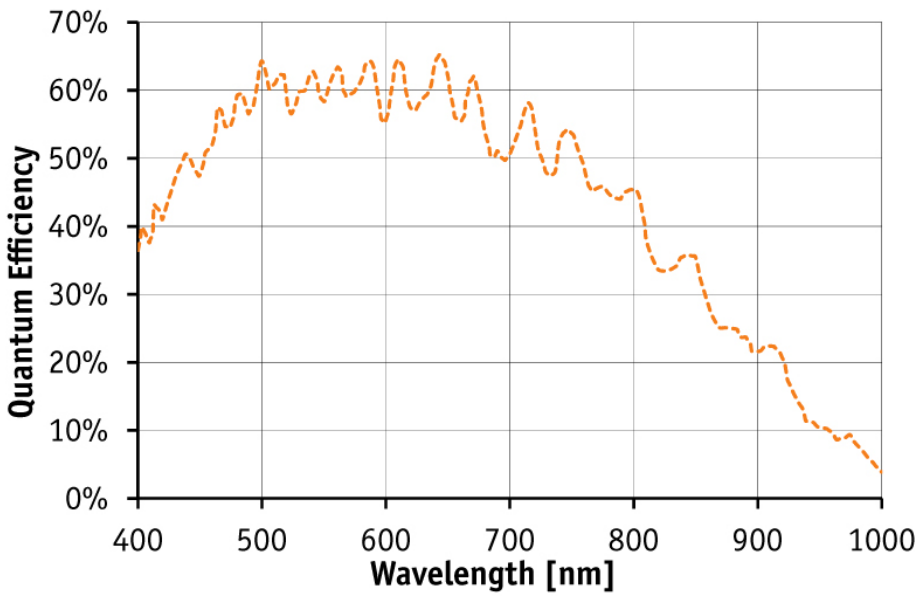
**4 Megapixel CMOS NIR enhanced camera for extreme environments - fast frame rates**
Prosilica GT2050 NIR is a 4 Megapixel camera equipped with a NIR optimized variant of CMOSIS CMV4000 sensor. At 900 nm this sensor offers double the quantum efficiency, an increase from 8% to 16% absolute. GT2050 NIR 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.
Options:

- Various lens mounts

## Specifications

| **Prosilica GT** | **2050 NIR** |
|---|---|
| Interface | IEEE 802.3 1000BASE-T, IEEE 802.3af (PoE) |
| Resolution | 2048 × 2048 |
| Sensor | CMOSIS CMV4000 NIR |
| Sensor type | CMOS Progressive |
| Cell size | 5.5 µm |
| Lens mount | C-Mount |
| Max frame rate at full resolution | 28.6 fps |
| ADC | 12 bit |
| On-board FIFO | 128 Mbyte |
| **Output** | |
| Bit depth | 8/12 bit |
| Mono modes | Mono8, Mono12, Mono12Packed |
| **General purpose inputs/outputs (GPIOs)** | |
| TTL I/Os | 1 input, 2 outputs |

| Prosilica GT | 2050 NIR |
|---|---|
| Opto-isolated 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) | 4.3 W (PoE) / 3.5 W @ 12 VDC |
| Mass | 210 g |
| Body dimensions (L × W × H in mm) | 86 × 53.3 × 33 mm including connectors, w/o tripod and lens |
| Regulations | CE, FCC Class A, RoHS (2011/65/EU) |



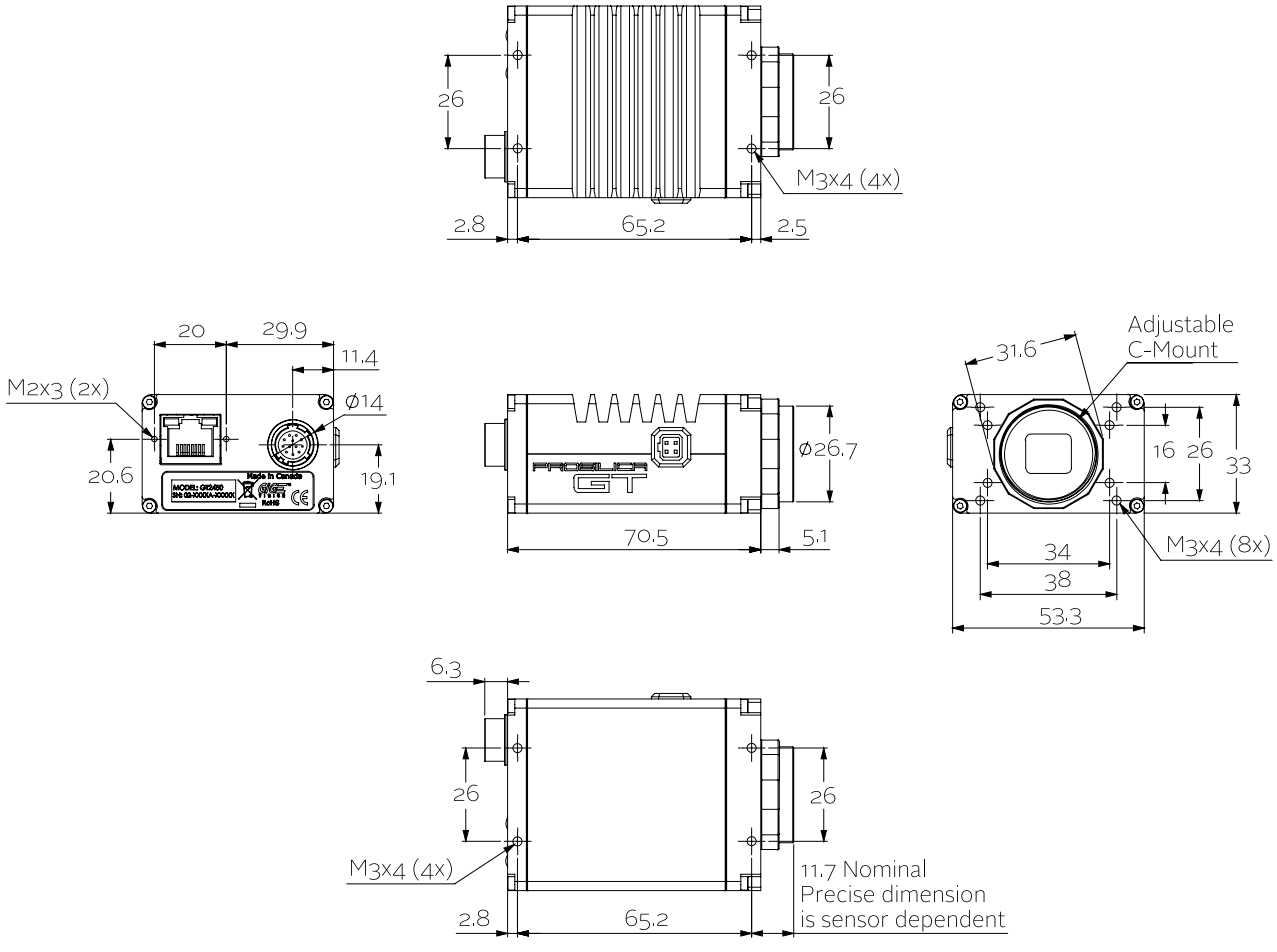

# Features

Prosilica GT2050 NIR features include:

- Precision Time Protocol (IEEE 1588)
- Camera temperature monitoring
- Defect masking
- Auto iris (P-Iris and DC-Iris)
- ROI, separate ROI for auto features
- Auto gain (manual gain control: 0 to 26 dB)
- Auto exposure (manual exposure control: 34 µs to 126.2 s)
- Auto white balance

- Gamma
- Hue, saturation, color correction
- StreamBytesPerSecond (easy bandwidth control)
- Stream hold
- Sync out modes: Trigger ready, input, exposing, readout, imaging, strobe, GPO
- Event channel
- Chunk data
- Storable user sets

# Technical drawing




# Applications

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