

Description

11 Megapixel CCD camera - 5 fps

The 11 megapixel GE4000 is a very high-resolution CCD camera with Gigabit Ethernet output (GigE Vision®). The GE4000 features the high-quality 35mm format Kodak KAI-11002 CCD image sensor that provides exceptionally high resolution, sensitivity, and dynamic range.

- 5 fps at 4008 x 2672
- F-mount

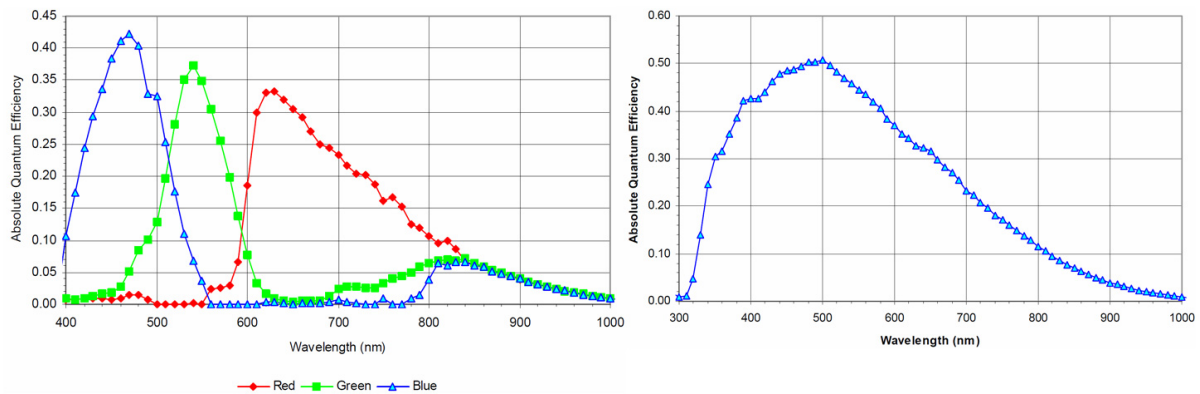
- **Models:**
 - GE4000, 4008x2672, 5 fps, CCD, mono
 - GE4000C, 4008x2672, 5 fps, CCD, color

- **Modular options:**
 - Canon EF Lens Mount (Factory conversion via RS232 I/O)
 - IRC Filter on Monochrome cameras (Factory installation)
 - Taped glass and microlens (Factory built)
 - Taped glass No microlens (Factory built)
 - Kodak Class 1 (Factory built with Class 1 sensor grade)
 - Kodak Class 0 (Factory built with Class 0 sensor grade)

Specifications

Prosilica GE 4000	
Interface	IEEE 802.3 1000baseT
Resolution	4008 x 2672
Sensor	Kodak KAI-11002
Type	CCD Progressive
Sensor Size	Type 35 mm
Cell size	9 µm
Lens mount	F
Max frame rate at full resolution	5 fps
A/D	12 bit
On-board FIFO	32 MB
Output	
Bit depth	8/12 bit
Mono modes	Mono8, Mono12, Mono16
Color modes YUV	n/a
Color modes RGB	n/a
Raw modes	Bayer8, Bayer12, Bayer16
General purpose inputs/outputs (GPIOs)	
TTL I/Os	1 input, 3 outputs (with galvanic isolation)
Opto-coupled I/Os	0
RS-232	1
Power/Mass/Dimensions/Regulations	
Power requirements (DC)	5V - 24V
Power consumption (12 V)	6 W
Mass	402 g
Body Dimensions (L x W x H in mm)	110x66x66 including connectors, w/o tripod and lens
Regulations	CE, FCC, Class A, RoHS

[Download Prosilica GE4000 technical drawing \(click here\)](#)



Smart features

- Auto Exposure
- Auto Gain
- Auto White balance
- Flexible Binning
- Region of Interest readout (AOI partial scan)
- StreamBytesPerSecond (easy bandwidth control)
- Stream hold
- Asynchronous external trigger and sync I/O
- Global shutter (digital shutter)
- Recorder and Multiframe Acquisition Modes

Application Notes:

[Canon EF Adapter on Prosilica GE and Prosilica GX Cameras \(PDF - 466KB\)](#)

Applications

The GE4000 is ideal for a wide range of applications requiring very high resolution. These include:

- LCD panel inspection
- semiconductor wafer inspection
- solar panel inspection
- aerial photography
- 3-D metrology
- general machine vision
- public security
- surveillance
- traffic imaging (Intelligent Traffic Systems)
- embedded systems
- OEM applications

Application Case Studies:

- **Prosilica Cameras Go Airborne**

Security & Traffic: Prosilica GE4000 used in UAV technology.

- **GE4000 Observes Gamma-Ray Phenomena**

Science & Research: The Sternberg Astronomical Institute of the Moscow State University in Russia uses Prosilica GE4000 GigE Vision cameras to detect and measure gamma ray bursts.