GE2040

Description

High-performance 4 megapixel CCD camera - 15 fps

The 4 megapixel GE2040 is a very high-resolution CCD camera with Gigabit Ethernet output. The GE2040 features the high-quality Kodak KAI-04022 CCD image sensor that provides superior image quality, excellent sensitivity, and low noise.

- Available in C-mount or F-mount models.

- **Models:**
  - GE2040, 2040x2040, 15 fps, CCD, mono
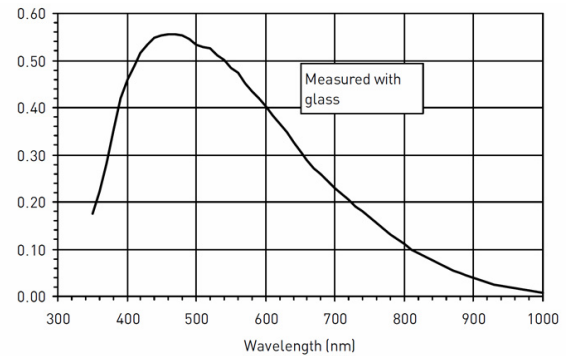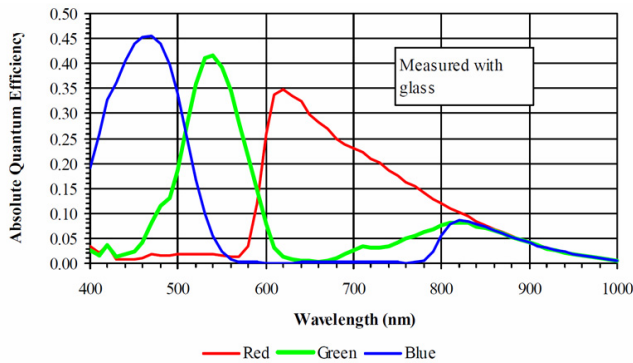 - GE2040C, 2040x2040, 15 fps, CCD, color

- **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 (GE2040 monochrome only - Factory built)

Specifications

Prosilica GE	2040
Interface	IEEE 802.3 1000baseT
Resolution	2040 x 2048
Sensor	Kodak KAI-04022
Type	CCD Progressive
Sensor Size	Type 1.2
Cell size	7.4 µm
Lens mount	C/F
Max frame rate at full resolution	15 fps
A/D	12 bit
On-board FIFO	32 MB
	Output
Bit depth	8/12 bit
Mono modes	Mono8, Mono12, Mono16
Color modes YUV	YUV411, YUV422, YUV444
Color modes RGB	RGB24, BGR24, RGBA24, BGRA24
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)	5.5 W
Mass	169 g
Body Dimensions (L x W x H in mm)	80x51x39 including connectors, w/o tripod and lens
Regulations	CE, FCC, Class A, RoHS

Download Prosilica GE2040 technical drawing (click here)

Measured with glass

Measured with glass

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 GE2040 is ideal for a wide range of applications including:

- high-resolution industrial inspection
- general machine vision
- 3-D metrology
- LCD panel inspection
- military surveillance
- public security
- traffic imaging (Intelligent Traffic Systems)
- embedded systems
- OEM applications