

## 205 fps VGA CCD Camera with C-mount

- 1/3" CCD sensor with 7.4 µm square pixels
- Global shutter (Snapshot shutter)
- Gigabit Ethernet interface
- Asynchronous external trigger and sync I/O
- Region of Interest readout (AOI partial scan)
- Binning modes up to 8x8



### About the GE680 / 680C

The GE680 is a very fast, VGA-resolution, high-performance machine vision camera with Gigabit Ethernet interface. The CCD sensor is suitable for applications where speed and good sensitivity are required.

#### Applications for the GE680 include:

- high-speed inspection
- machine vision
- optical character recognition
- traffic imaging
- robotics
- OEM applications

#### The Prosilica Advantage

- Image quality
- High reliability
- High performance
- Ultra-Compact
- Ease of use and integration
- Rich set of camera features

<b>Resolution</b>	640x480
<b>Sensor Type</b>	1/3" CCD Kodak KAI-0340D
<b>Pixel Size (µm)</b>	7.4 x 7.4
<b>Maximum Frame Rate</b>	205 fps at 640x480
<b>Lens Mount</b>	C-mount with adjustable back focus
<b>Digital Interface*</b>	GigE Vision 1.0
<b>Interface Type</b>	IEEE 802.3 1000baseT
<b>Exposure Range</b>	25µs to 60s
<b>Region of Interest (ROI)</b>	Independent x and y control; 1 pixel resolution
<b>Binning</b>	Independent H and V control
<b>Imaging Modes</b>	External Trigger, Fixed frame rate, Software trigger
<b>External Trigger Modes</b>	Rising edge, Falling edge, Any edge, Level high, Level low
<b>External Sync Modes</b>	Trigger ready, Trigger input, Exposing, Readout, Imaging, Strobe, GPO
<b>External Trigger/ Sync Connection</b>	mini-SMB and 12-pin Hirose
<b>Monochrome Modes</b>	Mono8, Mono16**
<b>Color Modes</b>	Bayer8, Bayer16, RGB24, YUV411, YUV422, YUV444, BGR24, RGBA24, BGRA24
<b>GPIO</b>	1 isolated TTL input, 3 isolated TTL outputs, RS232 I/O
<b>Power Consumption</b>	4.5 W (12V)
<b>Housing Size</b>	39x51x63 mm
<b>Weight</b>	169 g
<b>Conformity</b>	CE, FCC, RoHS
<b>SDK</b>	Free - includes sample code and driver

\*GigE Vision™ is a trademark of the Automated Imaging Association

\*\*Mono16 is available on monochrome models only

Specifications are subject to change without notice

Please refer to the Prosilica web site for a full list of specifications

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