

## High Definition Resolution CCD C

- High resolution - 2 megapixels (1920 x 1080)
- Kodak KAI-2093 Progressive scan CCD
- Global shutter (Snapshot shutter)
- Gigabit Ethernet interface
- Extra fast frame rate - 30 fps at full-resolution
- Asynchronous external trigger and sync I/O



### About the GE1900 / 1900C

The 2 Megapixel GE1900 is a high-resolution CCD camera with Gigabit Ethernet interface (GigE Vision). The GE1900 incorporates a high-quality Kodak KAI-2093 CCD sensor providing excellent monochrome and color image quality in HD resolution (1080p).

### Applications for the GE1900 include:

- industrial inspection
- machine vision
- LCD panel inspection
- medical imaging
- ophthalmology
- aeronautical and aerospace
- public security
- surveillance
- traffic imaging
- 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>	1920x1080
<b>Sensor Type</b>	1" CCD progressive scan Kodak KAI-2093
<b>Pixel Size (µm)</b>	7.4 x 7.4
<b>Maximum Frame Rate</b>	30 fps at 1920x1080
<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>	50µs 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>	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

### Prosilica Inc.

101-3750 North Fraser Way | Burnaby, BC | V5J 5E9 | Canada

Tel: 604.875.8855 | Fax: 604.875.8856 | info@prosilica.com

[www.prosilica.com](http://www.prosilica.com)

[www.adept.net.au](http://www.adept.net.au)