

## Fast VGA CMOS Camera with GigE Vision

- Very fast frame rate - 200 fps
- 1/2" CMOS sensor with 9.9 µm square pixels
- Gigabit Ethernet interface
- GigE Vision compliant
- Asynchronous external trigger and sync I/O
- Region of Interest readout (AOI partial scan)



<b>Resolution</b>	659x493
<b>Sensor Type</b>	1/2" CMOS progressive scan
<b>Pixel Size (µm)</b>	9.9 x 9.9
<b>Maximum Frame Rate</b>	196 fps at 659x493
<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>	20µs 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
<b>GPIO</b>	1 isolated TTL input, 3 isolated TTL outputs, RS232 I/O
<b>Power Consumption</b>	2.3 W (12V)
<b>Housing Size</b>	39x51x63 mm
<b>Weight</b>	170 g
<b>Conformity</b>	CE, FCC, RoHS
<b>SDK</b>	Free - includes sample code and driver

### About the GE640 / 640C

The GE640 is a fast, VGA-resolution, high-performance machine vision camera with Gigabit Ethernet interface (GigE Vision\*). The GE640 runs 200 frames per second at VGA resolution, uncompressed, over its Gigabit Ethernet interface. The CMOS sensor is suitable for applications where speed or resistance to blooming are required.

### Applications for the GE640 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

\*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)