

## Ultra-compact Gigabit Ethernet Camera 200 fps

- Very fast frame rate - 200 fps at 640 x 480
- 1/2" CMOS sensor with 9.9 µm square pixels
- Gigabit Ethernet interface
- GigE Vision compliant
- Very small and light weight
- Asynchronous external trigger and sync I/O



<b>Resolution</b>	659x493
<b>Sensor Type</b>	1/2" CMOS progressive scan MT9V403
<b>Pixel Size (µm)</b>	9.9 x 9.9
<b>Maximum Frame Rate</b>	197 fps at 659x493
<b>Lens Mount</b>	C-mount
<b>Digital Interface*</b>	GigE Vision 1.0
<b>Interface Type</b>	IEEE 802.3 1000baseT
<b>Exposure Range</b>	10µs to 60s
<b>Region of Interest (ROI)</b>	Independent x and y control; 1 pixel resolution
<b>Binning</b>	N/A
<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>	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, 1 isolated TTL output, 1 non-isolated TTL input, 1 non-isolated TTL output, RS232 I/O
<b>Power Consumption</b>	less than 2.3 W (12V)
<b>Housing Size</b>	33x46x33 mm
<b>Weight</b>	92 g
<b>Conformity</b>	CE, FCC, RoHS
<b>SDK</b>	Free - includes sample code and driver

### About the GC640 / 640C

The GC640 is an ultra-compact, VGA-resolution, high-performance machine vision camera with Gigabit Ethernet interface (GigE Vision). The GC640 runs 200 frames per second at VGA resolution (640x480), uncompressed, over its Gigabit Ethernet interface. The CMOS sensor is suitable for applications where speed or resistance to blooming are required.

### Applications for the GC640 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

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