

## XGA Resolution Ultra Compact CCD Camera

- High resolution - 1024 x 768
- Sony Progressive scan CCD
- Gigabit Ethernet interface
- Very small and light weight
- Region of Interest readout (AOI partial scan)
- Binning Modes 2x2 to 8x8 and more



<b>Resolution</b>	1024x768
<b>Sensor Type</b>	1/3" CCD progressive scan Sony ICX204
<b>Pixel Size (µm)</b>	4.65 x 4.65
<b>Maximum Frame Rate</b>	33 fps at 1024x768
<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>	10µs 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>	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 2.9 W (12V)
<b>Housing Size</b>	33x46x38 mm
<b>Weight</b>	99 g
<b>Conformity</b>	CE, FCC, RoHS
<b>SDK</b>	Free - includes sample code and driver

### About the GC1020 / 1020C

The GC1020 is a 1024x768 resolution CCD camera with Gigabit Ethernet interface (GigE Vision). The GC1020 incorporates the Sony ICX204 CCD sensor providing excellent monochrome and color image quality. The GC1020 runs 30 frames per second at full resolution and even faster with region of interest readout. The GC1020 is particularly suited to applications requiring near megapixel resolution at 30 fps.

### Applications for the GC1020 include:

- industrial inspection
- machine vision
- 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

\*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