

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



Resolution	1024x768
Sensor Type	1/3" CCD progressive scan Sony ICX204
Pixel Size (µm)	4.65 x 4.65
Maximum Frame Rate	33 fps at 1024x768
Lens Mount	C-mount with adjustable back focus
Digital Interface*	GigE Vision 1.0
Interface Type	IEEE 802.3 1000baseT
Exposure Range	10µs to 60s
Region of Interest (ROI)	Independent x and y control; 1 pixel resolution
Binning	Independent H and V control
Imaging Modes	External Trigger, Fixed frame rate, Software trigger
External Trigger Modes	Rising edge, Falling edge, Any edge, Level high, Level low
External Sync Modes	Trigger ready, Trigger input, Exposing, Readout, Imaging, Strobe, GPO
External Trigger/ Sync Connection	12-pin Hirose
Monochrome Modes	Mono8, Mono16**
Color Modes	Bayer8, Bayer16, RGB24, YUV411, YUV422, YUV444, BGR24, RGBA24, BGRA24
GPIO	1 isolated TTL input, 1 isolated TTL output, 1 non-isolated TTL input, 1 non-isolated TTL output, RS232 I/O
Power Consumption	less than 2.9 W (12V)
Housing Size	33x46x38 mm
Weight	99 g
Conformity	CE, FCC, RoHS
SDK	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

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