

Very Small VGA CCD Camera with GigE Vision

- 1/2" Sony Progressive Scan CCD
- Global shutter (Snapshot shutter)
- Gigabit Ethernet interface
- · Very small and light weight
- Asynchronous external trigger and sync I/O
- Region of Interest readout (AOI partial scan)

Resolution  Sensor Type  1/2" CCD progressive scan Sony ICX414  Pixel Size (µm)  9.9 x 9.9  Maximum Frame Rate  100 fps at 659x493  Lens Mount  Digital Interface*  Interface Type  IEEE 802.3 1000baseT  Exposure Range  Region of Interest (ROI)  Binning  Independent x and y control; 1 pixel resolution  Binning  Independent H and V control  Imaging Modes  External Trigger Modes  External Trigger Modes  External Trigger Input, Exposing, Readout, Imaging, Strobe, GPO  External Trigger/  Sync Connection  Independent Advance Marcal Street  In
Pixel Size (µm)  Maximum Frame Rate  Lens Mount  Digital Interface*  Interface Type  Exposure Range  Region of Interest (ROI)  Binning  Imaging Modes  External Trigger Modes  External Sync Modes  Pixel Size (µm)  9.9 x 9.9  9.9 t 9.9  9.9 t 9.9  9.9 x 9.9  9.9 t 9.9  9.9 x 9.9  9.9 t 9.9  9.9 x 9.9  10.9 t 659x493  Independent adjustable back focus  Independent 1.0  Independent x and y control; 1 pixel resolution  Independent H and V control  External Trigger, Fixed frame rate, Software trigger  Rising edge, Falling edge, Any edge, Level high, Level low  Trigger ready, Trigger input, Exposing, Readout, Imaging, Strobe, GPO  External Trigger/ Sync Connection
Maximum Frame Rate  Lens Mount  C-mount with adjustable back focus  Digital Interface*  Interface Type  Exposure Range  Region of Interest (ROI)  Binning  Independent x and y control; 1 pixel resolution  Binning  Independent H and V control  Imaging Modes  External Trigger Modes  External Trigger Modes  External Sync Modes  Trigger ready, Trigger input, Exposing, Readout, Imaging, Strobe, GPO  External Trigger/  Sync Connection
Lens Mount  C-mount with adjustable back focus  Digital Interface*  Interface Type  Exposure Range  Region of Interest (ROI)  Binning  Imaging Modes  External Trigger Modes  External Sync Modes  External Trigger/  External Trigger/  Sync Connection  C-mount with adjustable back focus  GigE Vision 1.0  IEEE 802.3 1000baseT  10µs to 60s  Independent x and y control; 1 pixel resolution  Independent H and V control  External Trigger, Fixed frame rate, Software trigger  External Trigger Modes  Trigger ready, Falling edge, Any edge, Level high, Level low  Trigger ready, Trigger input, Exposing, Readout, Imaging, Strobe, GPO  12-pin Hirose
Digital Interface* Interface Type IEEE 802.3 1000baseT  Exposure Range I0µs to 60s  Region of Interest (ROI) Independent x and y control; 1 pixel resolution  Binning Independent H and V control  Imaging Modes External Trigger Modes External Trigger Modes  External Sync Modes  Trigger ready, Trigger input, Exposing, Readout, Imaging, Strobe, GPO  External Trigger/ Sync Connection
Interface Type  Exposure Range  10µs to 60s  Region of Interest (ROI)  Binning  Independent x and y control; 1 pixel resolution  Independent H and V control  Imaging Modes  External Trigger Modes  External Trigger Modes  External Sync Modes  Trigger ready, Trigger input, Exposing, Readout, Imaging, Strobe, GPO  External Trigger/  Sync Connection
Exposure Range  Region of Interest (ROI)  Binning  Independent x and y control; 1 pixel resolution  Independent H and V control  Imaging Modes  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
Region of Interest (ROI)  Binning  Independent x and y control; 1 pixel resolution  Independent H and V control  Imaging Modes  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
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
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
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
External Sync Modes  Trigger ready, Trigger input, Exposing, Readout, Imaging, Strobe, GPO  External Trigger/ Sync Connection
Readout, Imaging, Strobe, GPO  External Trigger/ Sync Connection  Readout, Imaging, Strobe, GPO  12-pin Hirose
Sync Connection
Marrack marrack Marrack Code
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 3 W (12V)
Housing Size 33x46x38 mm
Weight 100 g
Conformity CE, FCC, RoHS
SDK Free - includes sample code and driver

<sup>\*</sup>GigE Vision™ is a trademark of the Automated Imaging Association

Please refer to the Prosilica web site for a full list of specifications

## **About the GC655 / 655C**

The GC655 is a fast, VGA-resolution, high-performance machine vision camera with Gigabit Ethernet interface (GigE Vision). The 1/2" CCD sensor has excellent image quality and sensitivity. The camera is suitable for applications where speed and excellent image quality are key requirements.

## Applications for the GC655 include:

- · machine vision
- · industrial inspection
- · public security
- · traffic monitoring
- robotics

## The Prosilica Advantage

- Image quality
- High reliability
- High performance
- Ultra-Compact
- Ease of use and integration
- Rich set of camera features

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<sup>\*\*</sup>Mono16 is available on monochrome models only

Specifications are subject to change without notice