



SMARTER IMAGING FOR BETTER LIVES

Perth: +61 (08) 9242 5411 Sydney: +61 (02) 9905 5551  
Melbourne: +61 (03) 9384 1775Email: sales@adeptturnkey.com.au  
Web site: www.adept.net.au

## Prosilica GX-Series: 240MB/s

### The Fastest GigE Cameras in the World



#### Description

The 4-megapixel GX2300 is a very high-resolution CCD camera with Gigabit Ethernet output. The GX2300 has a fast frame rate of 32 fps at 2336x1752 resolution. The sensor used in the GX2300 is the high-quality 4-Megapixel CCD image sensor from Kodak and provides superior image quality, excellent sensitivity, and low noise. The GigE Vision compliant GX2300 works with standard gigabit Ethernet hardware and cable lengths up to 100 meters (300 ft) using conventional Cat-5e network cabling.

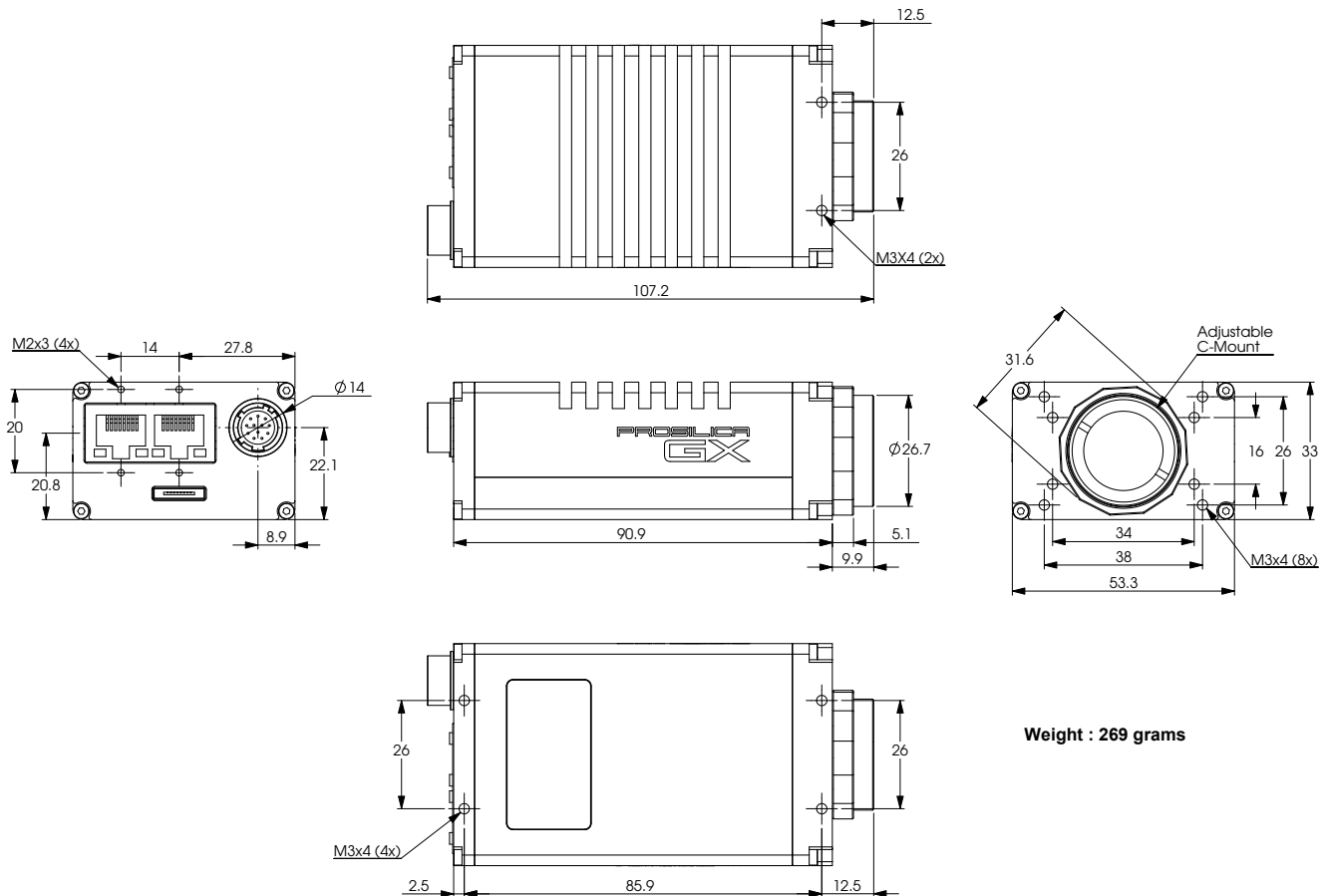
Applications for the GX2300 include LCD panel inspection, high-resolution industrial inspection, 3-D metrology, general machine vision, public security, military surveillance, traffic imaging (Intelligent Traffic Systems), embedded systems, and OEM applications.

#### Highlights

- High resolution 2336x1752
- 1" Kodak KAI-04050 Progressive interline CCD
- Fast - 32 frames per second
- Thermal management enclosure
- Progressive Scan - Global shutter (snapshot)
- Gigabit Ethernet interface - Dual Port 240 MB/s
- GigE Vision compliant
- Asynchronous external trigger and sync I/O
- Region of Interest readout (AOI partial scan)
- Motorized lens controls - 3-axis
- Video-type autoiris controls
- Asynchronous external trigger and sync I/O
- 128 MB resend buffer
- Screw-captivated power connection
- Software development Kit

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## Dimensions



## Interface: Dual Gigabit Ethernet Ports Featuring LAG Technology



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Camera Specifications	GX2300 / GX2300C
Resolution	2336 x 1752
Sensor Type	1" CCD progressive interline Kodak KAI-04050
Pixel Size (μm)	5.5 x 5.5
Maximum Frame Rate (full resolution)	32 fps
Lens Mount	C-mount with adjustable back focus (optional F-mount)
Digital Interface*	GigE Vision 1.0
Interface Type	IEEE 802.3 1000base-T, 100base-TX
Exposure Range	10μs to 60s
Gain Range	0 to 34dB
Region of Interest (ROI)	Independent x and y control; 1 pixel resolution
Frame Rate at 100 x 100 ROI**	TBD
Binning	Independent H and V control; 1 pixel resolution
Horizontal Binning Range	1 to 8 pixels
Vertical Binning Range	1 to 8 rows
2x2 binning max. framerate	TBD
Imaging Modes	Free-running, External Trigger, Fixed frame rate, Software trigger
Fixed Frame Rate Control	0.001 fps to maximum frame rate
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
Trigger Delay Control Range	0 to 60s in 1 μs increments
Trigger Latency	1.5 μs
Trigger Jitter	+/-0.5 μs
External Trigger/Sync Connection	mini-SMB and 12-pin Hirose
Monochrome Modes	Mono8, Mono16†
Color Modes	Bayer8, Bayer16, RGB24, YUV411, YUV422, YUV444, BGR24, RGBA24, BGRA24
GPIO	2 isolated TTL input, 4 isolated TTL outputs, RS232 TX/RX, motorized iris, video auto-iris, focus and zoom
Max. Power Consumption	<5.9W using a single GigE port <6.8W using 2 GigE ports
Max. Operating Temperature	50 C
Housing Size (not including lens mount and connectors)	33 x 53.3 x 90.9 mm
Total Size Envelope (HxWxL)	33 x 53.3 x 107.2 mm
Nom. Weight	269 g
Conformity	CE, FCC, RoHS
Digitization	14 bits
Spectral Sensitivity Range	400 - 1000 nm

Specifications are subject to change without notice.

\*GigE Vision® is a trademark of the Automated Imaging Association.

\*\*These figures are given as an example. There are a wide range of settings and speeds possible. Smaller ROI and/or higher binning modes will give even faster maximum framerates.

†Mono16 is available on monochrome models only.

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