

Prosilica GX-Series: 240MB/s The Fastest GigE Cameras in the World



Description

The 8-megapixel GX3300 is a very high-resolution CCD camera with Gigabit Ethernet output. The GX3300 has a fast frame rate of 17 fps at 3296x2472 resolution. The sensor used in the GX3300 is the high-quality 8-Megapixel CCD Kodak KAI-08050 that provides superior image quality, excellent sensitivity, and low noise.

The GX3300 has two screw-captivated Gigabit Ethernet ports configured as a Link Aggregation Group (LAG) to provide a sustained maximum data rate of 240 MBytes per second.

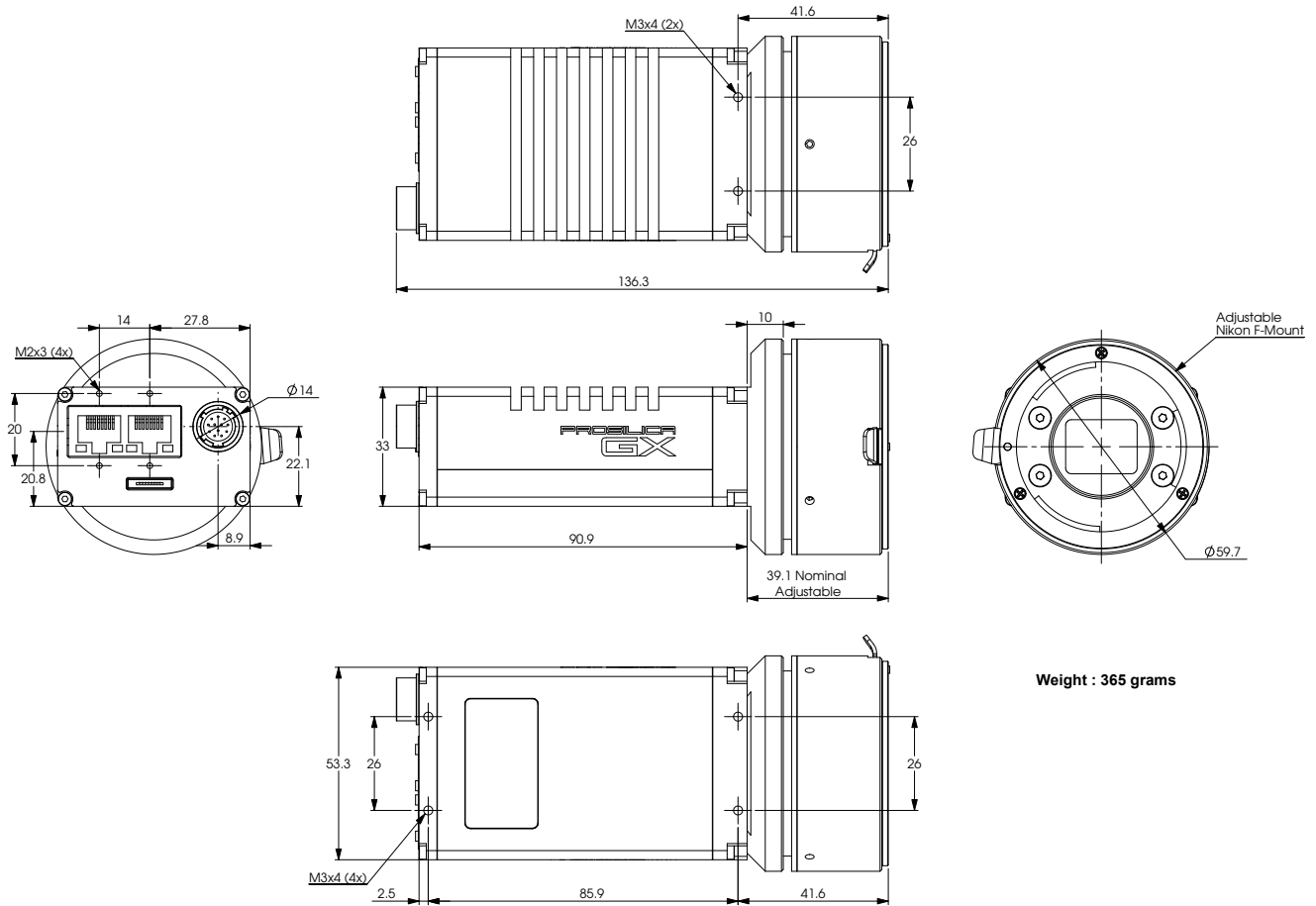
The GigE Vision compliant GX3300 works with standard gigabit Ethernet hardware and cable lengths up to 100 meters (300 ft) using conventional Cat-5e network cabling.

The GX3300 is available with an F-mount.

Highlights

- 4/3" format - 3296 x 2472
- Kodak KAI-08050 Progressive interline CCD
- Global shutter (Snapshot shutter)
- 17 fps at full-resolution
- Gigabit Ethernet interface - Dual Port 240 MB/s
- GigE Vision compliant
- Thermal management enclosure
- Asynchronous external trigger and sync I/O
- 128 MB resend/image buffer
- Screw-captivated power connection
- Software development Kit
- F-mount

Dimensions



Interface: Dual Gigabit Ethernet Ports Featuring LAG Technology



Camera Specifications	GX3300 / GX3300C
Resolution	3296 x 2472
Sensor Type	4/3" CCD progressive interline Kodak KAI-08050
Pixel Size (µm)	5.5 x 5.5
Maximum Frame Rate (full resolution)	17 fps
Lens Mount	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	+/-0.5µs
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	<6.1W using a single GigE port <7.2 W using two 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)	59.7 x 59.7 x 136.7 mm
Nom. Weight	365 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.