GX-SERIES

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Prosilica GX-Series: 240MB/s

The Fastest GigE Cameras in the World

ALLIED Vision Technologies

www.adept.net.au

GX-SERIES

	GX1050 / GX1050C	GX1660 / GX1660C	GX1910 / GX1910C	GX2300 / GX2300C	GX3300 / GX3300C
Resolution	1024x1024	1600x1200	1920x1080	2336 x 1752	3296 x 2472
Sensor Type	1/2" CCD progressive scan Kodak KAI-01050	2/3" CCD progressive scan Kodak KAI-02050	2/3" CCD progressive scan Kodak KAI-02150	1" CCD progressive scan Kodak KAI-04050	4/3" CCD progressive scan Kodak KAI-08000
Pixel Size (µm)	5.5 x 5.5	5.5 x 5.5	5.5 x 5.5	5.5 x 5.5	5.5 x 5.5
Maximum Frame Rate (full resolution)	112 fps	68 fps	64 fps	32 fps	16 fps
Lens Mount	C-mount with adjustable back focus (optional CS-mount)	C-mount with adjustable back focus (optional CS-mount)	C-mount with adjustable back focus (optional CS-mount)	C-mount with adjustable back focus (optional F-mount)	F-mount
Digital Interface*	GigE Vision 1.0	GigE Vision 1.0	GigE Vision 1.0	GigE Vision 1.0	GigE Vision 1.0
Interface Type	Double Speed IEEE 802.3 1000baseT	Double Speed IEEE 802.3 1000base	Double Speed IEEE 802.3 1000base	Double Speed IEEE 802.3 1000base	Double Speed IEEE 802.3 1000base
Exposure Range	10µs to 60s	10µs to 60s	10µs to 60s	75µs to 60s	140µs to 60s
Region of Interest (ROI)	Independent x and y control; 1 pixel resolution	Independent x and y control; 1 pixel resolution	Independent x and y control; 1 pixel resolution	Independent x and y control; 1 pixel resolution	Independent x and y control; 1 pixel resolution
Binning	Independent H and V control; 1 pixel resolution	Independent H and V control; 1 pixel resolution	Independent H and V control; 1 pixel resolution	Independent H and V control; 1 pixel resolution	Independent H and V control; 1 pixel resolution
Imaging Modes	Free-running, External Trigger, Fixed frame rate, Software trigger	Free-running, External Trigger, Fixed frame rate, Software trigger	Free-running, External Trigger, Fixed frame rate, Software trigger	Free-running, External Trigger, Fixed frame rate, Software trigger	Free-running, External Trigger, Fixed frame rate, Software trigger
External Trigger Modes	Rising edge, Falling edge, Any edge, Level high, Level low	Rising edge, Falling edge, Any edge, Level high, Level low	Rising edge, Falling edge, Any edge, Level high, Level low	Rising edge, Falling edge, Any edge, Level high, Level low	Rising edge, Falling edge, Any edge, Level high, Level low
External Sync Modes	Trigger ready, Trigger input, Exposing, Readout, Imaging, Strobe, GPO	Trigger ready, Trigger input, Exposing, Readout, Imaging, Strobe, GPO	Trigger ready, Trigger input, Exposing, Readout, Imaging, Strobe, GPO	Trigger ready, Trigger input, Exposing, Readout, Imaging, Strobe, GPO	Trigger ready, Trigger input, Exposing, Readout, Imaging, Strobe, GPO
Monochrome Modes	Mono8, Mono16†	Mono8, Mono16†	Mono8, Mono16†	Mono8, Mono16†	Mono8, Mono16‡
Color Modes	Bayer8, Bayer16, RGB24, YUV411, YUV422, YUV444, BGR24, RGBA24, BGRA24	Bayer8, Bayer16, RGB24, YUV411, YUV422, YUV444, BGR24, RGBA24, BGRA24	Bayer8, Bayer16, RGB24, YUV411, YUV422, YUV444, BGR24, RGBA24, BGRA24	Bayer8, Bayer16, RGB24, YUV411, YUV422, YUV444, BGR24, RGBA24, BGRA24	Bayer8, Bayer16,
GPIO	1 isolated TTL input, 3 isolated TTL outputs, RS232 I/O, motorized lens control, video autoiris	1 isolated TTL input, 3 isolated TTL outputs, RS232 I/O, motorized lens control, video autoiris	1 isolated TTL input, 3 isolated TTL outputs, RS232 I/O, motorized lens control, video autoiris	1 isolated TTL input, 3 isolated TTL outputs, RS232 I/O, motorized lens control, video autoiris	1 isolated TTL input, 3 isolated TTL outputs, RS232 I/O, motorized lens control, video autoiris
Max. Power Consumption	6.2 W (12 V)	6.2 W (12 V)	6.2 W (12 V)	6.8 W (12V)	7.2 W (12V)
Max. Operating Temperature	50 C	50 C	50 C	50 C	50 C
Housing Size (not including lens mount and connectors)	33 x 53.3 x 90.9 mm	33 x 53.3 x 90.9 mm	33 x 53.3 x 90.9 mm	33 x 53.3 x 90.9 mm	33 x 53.3 x 90.9 mm
Nom. Weight	178 g	169 g	169 g	169 g	391 g
Conformity	CE, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS
Digitization	12 bits	12 bits	12 bits	12 bits	12 bits

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.

GX-SERIES

240MB/s - The fastest Gigabit Ethernet cameras in the world

The GX-Series cameras are compact, high-performance machine vision cameras with Gigabit Ethernet interface (GigE Vision™). The GX-Series have 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. No other GigE camera on the market can achieve such data rates.

Another unique feature of the Prosilica GX-Series is that it provides 3-axis motorized lens control as well as Video-autoiris controls.

Applications for the GX-Series cameras include machine vision, industrial inspection, avionics, traffic monitoring, license plate reading (ANPR), public security, intelligent transportation systems (ITS), character recognition, robotics and surveillance, and much more.

Features include:

- Very Fast - 240 MB/s
- Light weight
- High Resolution with fast frame rate
- Gigabit Ethernet interface (GigE Vision®)
- 3-axis motorized lens control
- Video-type autoiris
- Snapshot shuttering
- Asynchronous external trigger and sync I/O
- Very small and light weight
- Region of Interest readout (AOI partial scan)
- Flexible binning modes
- 128 MB resend/image buffer
- Color cameras include RGB output

GX-Series Models

GX1050, 1024x1024, 112 fps, CCD
GX1050C, 1024x1024, 112 fps, CCD

GX1660, 1600x1200, 60 fps, CCD
GX1660C, 1600x1200, 60 fps, CCD

GX1910, 1920x1080, 60 fps, CCD
GX1910C, 1920x1080, 60 fps, CCD

GX3300, 3296x2472. 15 fps, CCD
GX3300C, 3296x2472. 15 fps, CCD

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