

GX-Series - PRELIMINARY

Specifications	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 (um)	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)	118 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	10us to 60s	10us to 60s	10us to 60s	75us to 60s	140us to 60s
Gain Range	TBD	TBD	TBD	TBD	TBD
Region of Interest (ROI) control:	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
Frame Rate at 100 x 100 ROI**	TBD	TBD	TBD	TBD	TBD
Binning control:	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
Horizontal Binning Range	1 to 8 pixels	1 to 8 pixels	1 to 8 pixels	1 to 8 pixels	1 to 8 pixels
Vertical Binning Range	1 to 1024 pixels	1 to 1200 pixels	1 to 1080 pixels	1 to 1220 pixels	1 to 2672 pixels
2x2 binning max. framerate*	TBD	TBD	TBD	TBD	TBD
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
Fixed Frame Rate Control	0.001 fps to maximum frame rate	0.001 fps to maximum frame rate	0.001 fps to maximum frame rate	0.001 fps to maximum frame rate	0.001 fps to maximum frame rate
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
Trigger Delay Control Range	0 to 60s in 1 us increments	0 to 60s in 1 us increments	0 to 60s in 1 us increments	0 to 60s in 1 us increments	0 to 60s in 1 us increments
Trigger Latency	5 us	5 us	5 us	4.2 us	4.2 us
Trigger Jitter	+/-10ns	+/-10ns	+/-10ns	+/-10ns	+/-10ns
External Trigger/Sync Connection	mini-SMB and 12-pin Hirose	mini-SMB and 12-pin Hirose	mini-SMB and 12-pin Hirose	mini-SMB and 12-pin Hirose	mini-SMB and 12-pin Hirose
Monochrome Modes	Mono8, Mono16t	Mono8, Mono16t	Mono8, Mono16t	Mono8, Mono16t	Mono8, Mono16t
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)	39x51x63 mm	39x51x63 mm	39x51x63 mm	39x51x63 mm	66x66x63 mm
Total Size Envelope (HxWxL)	39x51x80 mm	39x51x80 mm	39x51x80 mm	39x51x80 mm	66x66x111 mm
Nom. Weight	178g	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
Spectral Sensitivity	350 - 1000nm	325 - 1000 nm	325 - 1000 nm	400 - 1000 nm	400 - 1000 nm

#### Notes

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.

‡Mono8 and Mono16 are available on the monochrome models of the GE4000 and GE4900 only.

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