

The **Go-X** Series is expanding...

Small, **affordable** machine vision cameras
– now with **36 new models** to meet your needs

Sony 4th generation
Pregius S sensors

Resolutions from
5.1 to 24.5 megapixel

GigE Vision and
CoaXPress interfaces



ATTRACTIVE
PRICE
LEVELS

6
YEAR
WARRANTY

Built for non-stop operation:

JAI's proven manufacturing process has delivered field failure rates of less than two cameras per thousand over the last five years. Go-X Series cameras are designed to withstand typical shock, vibration, and thermal demands to keep critical inspection systems running 24/7 without fail.

Pre-screened for dust and other particles:

Special dust prevention measures include cleanroom assembly, internal seals around the sensor compartment, and a screening process to ensure every camera shipped delivers high image quality via a clean, dust-free optical path.

Wide range of applications:

Small and lightweight, with a choice of four interfaces, Go-X Series cameras are perfect for factory automation, life sciences, embedded vision, and much more, and can also mount easily on robotic arms, UAVs, and any other systems where motion or portability are vital.

New Go-X Series models featuring Sony 4th Generation Pregius S sensors

Looking for a small, affordable camera with the latest CMOS sensor technology?
Find the right choice for your application in the table below. All models have C-mount lens mounts
and can be powered over the GigE Vision/CoaXPress interface or by an
external power supply via the 6-pin Hirose connector.



Models with GigE Vision (1000BASE-T) interface

Available with color and monochrome sensors



Dimensions: 29 mm x 29 mm x 55.0 mm

Model	Resolution (MP & Pixels)	Frame rate (fps)	Optical format	Cell size (μm)	Data output	Sensor	Interface
GOX-5105-PGE	5.1 MP (2472 x 2064)	23 fps	1/1.8" CMOS	2.74 x 2.74	8/10/12-bit*	IMX547	GigE Vision (1000BASE-T)
GOX-8105-PGE	8.1 MP (2856 x 2848)	14 fps	2/3" CMOS	2.74 x 2.74	8/10/12-bit*	IMX546	GigE Vision (1000BASE-T)
GOX-12405-PGE	12.4 MP (4128 x 3008)	9 fps	1/1.1" CMOS	2.74 x 2.74	8/10/12-bit*	IMX545	GigE Vision (1000BASE-T)
GOX-16205-PGE	16.2 MP (5328 x 3040)	7 fps	1.1" CMOS	2.74 x 2.74	8/10/12-bit*	IMX542	GigE Vision (1000BASE-T)
GOX-20405-PGE	20.3 MP (4512 x 4512)	5 fps	1.1" CMOS	2.74 x 2.74	8/10/12-bit*	IMX541	GigE Vision (1000BASE-T)
GOX-24505-PGE	24.5 MP (5328 x 4608)	4 fps	1.2" CMOS	2.74 x 2.74	8/10/12-bit*	IMX540	GigE Vision (1000BASE-T)



Models with GigE Vision (5GBASE-T) interface (Available end 2022).

Available with color and monochrome sensors



Dimensions: 29 mm x 29 mm x 68.5 mm

Model	Resolution (MP & Pixels)	Frame rate (fps)	Optical format	Cell size (μm)	Data output	Sensor	Interface
GOX-5105-5GE	5.1 MP (2472 x 2064)	103 FPS	1/1.8" CMOS	2.74 x 2.74	8/10/12-bit*	IMX547	GigE Vision (5GBASE-T)
GOX-8105-5GE	8.1 MP (2856 x 2848)	66 FPS	2/3" CMOS	2.74 x 2.74	8/10/12-bit*	IMX546	GigE Vision (5GBASE-T)
GOX-12405-5GE	12.4 MP (4128 x 3008)	43 FPS	1/1.1" CMOS	2.74 x 2.74	8/10/12-bit*	IMX545	GigE Vision (5GBASE-T)
GOX-16205-5GE	16.2MP (5328 x 3040)	33 FPS	1.1" CMOS	2.74 x 2.74	8/10/12-bit*	IMX542	GigE Vision (5GBASE-T)
GOX-20405-5GE	20.3 MP (4512 x 4512)	27 FPS	1.1" CMOS	2.74 x 2.74	8/10/12-bit*	IMX541	GigE Vision (5GBASE-T)
GOX-24505-5GE	24.5 MP (5328 x 4608)	22 FPS	1.2" CMOS	2.74 x 2.74	8/10/12-bit*	IMX540	GigE Vision (5GBASE-T)



Models with CoaXPress (1xCXP-6) interface

Available with color and monochrome sensors



Dimensions: 29 mm x 29 mm x 55.0 mm

Model	Resolution (MP & Pixels)	Frame rate (fps)	Optical format	Cell size (μm)	Data output	Sensor	Interface
GOX-5105-CXP	5.1 MP (2472 x 2064)	112 FPS	1/1.8" CMOS	2.74 x 2.74	8/10/12-bit*	IMX547	CoaXPress (1xCXP-6)
GOX-8105-CXP	8.1 MP (2856 x 2848)	71 FPS	2/3" CMOS	2.74 x 2.74	8/10/12-bit*	IMX546	CoaXPress (1xCXP-6)
GOX-12405-CXP	12.4 MP (4128 x 3008)	47 FPS	1/1.1" CMOS	2.74 x 2.74	8/10/12-bit*	IMX545	CoaXPress (1xCXP-6)
GOX-16205-CXP	16.2 MP (5328 x 3040)	36 FPS	1.1" CMOS	2.74 x 2.74	8/10/12-bit*	IMX542	CoaXPress (1xCXP-6)
GOX-20405-CXP	20.3 MP (4512 x 4512)	29 FPS	1.1" CMOS	2.74 x 2.74	8/10/12-bit*	IMX541	CoaXPress (1xCXP-6)
GOX-24505-CXP	24.5 MP (5328 x 4608)	24 FPS	1.2" CMOS	2.74 x 2.74	8/10/12-bit*	IMX540	CoaXPress (1xCXP-6)

*) Not all processing functions supported with 12-bit output

The Go-X Series includes 24 additional models with Sony Pregius 2nd generation sensors ranging from 2.3 to 12.3-megapixel resolutions and featuring GigE Vision and **USB3 Vision interfaces**. Please consult your JAI camera expert for more information about all 60 Go-X Series camera models.

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See the possibilities