

# xiC

- Sony CMOS Pregius™ sensors
- small size and mass
- low power consumption

ximea



USB3.1 Gen1 camera series

# xiC

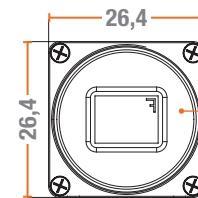
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The **xiC** is an extremely diversified and highly modular camera family designed for the Sony Pregius™ sensor series. It offers multiple choices of combining sensors and interfaces. Even though it is a board stack, for system integrators it has all the benefits of a single board design and is incredibly small.

## Quick facts

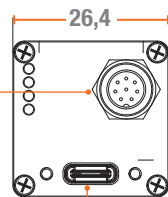
- USB 3.1 Gen1
- Various connection technologies available
  - Type-C
  - Micro-B
  - flat ribbon
- A modular board-level design makes it ideal for system integration for small and/or mobile applications and robotics
- Low power consumption. All models are bus powered
- Smallest footprint in class
- USB3 Vision compliant
- Very light

## Housed cameras



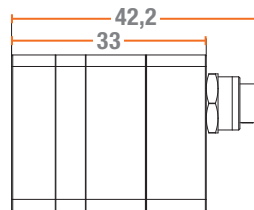
Standard C/CS lens mount with hard AR coated glass or IR filter

### Type-C (-TC)

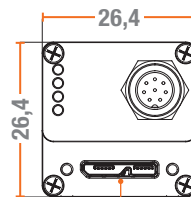


1 \* opto-isolated input  
1 \* opto-isolated output  
2 \* fast non-isolated bidirectional I/Os

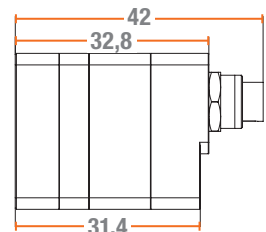
USB Type-C connector



### Micro-B (-UB)

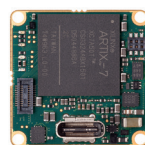


USB Micro-B connector



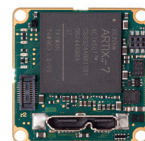
## Board-level cameras

Various options for optimal system integration available



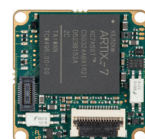
### Standard Type-C (-TC-BRD)

- Board-level version of standard housed camera with Type-C connector, perpendicular to board surface



### Standard Micro-B (-UB-BRD)

- Board-level version of standard housed camera with Micro-B connector, perpendicular to board surface

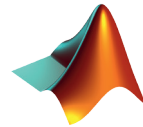


### Flex-Line boards (-FL-BRD or -FV-BRD)

- Connector for flat flex cables (FFC) including USB 3.1 Gen1 signals and GPIOs. Flexline connector parallel to board (-FL-BRD) or perpendicular to board (-FV-BRD)

## Supported vision libraries

Compatible with more than 30 popular machine vision libraries



XIMEA strives to create and maintain compatibility and interfaces for the most common and advanced vision image-processing libraries and applications. Major support is available for **MVTec Halcon**, **National Instruments LabVIEW**, **MathWorks MATLAB** and **OpenCV**. Please check our XIMEA website for an up-to-date list of other supported libraries and software packages.

## Compatibility

Supported operating systems



Windows



Linux



OS X

## Standards



### About us

**Big**  
about  
**small**

#### Why would we make that claim?

We say that because we just love to make cameras small, and excel at this task. Nobody makes the same thing any smaller. Is that a good thing? We certainly think so, especially when our products exceed customer satisfaction and specification. With small, comes low mass, another massive advantage for all our customers. High density means we have to take extraordinary care regarding power consumption and heat dissipation. But... that does not mean we allow any compromises. Everything we include in our products is of industry standard or better. Thanks to the full metal body, our cameras – literally and figuratively – are extremely cool, and because of our love for speed they are also fast. This design paradigm optimizes for the most ideal specifications for the broadest set of customers.

Our passion about small things also extends to the company itself.

We take conscious action to stay small and agile as a company. Consequentially our people must be extraordinarily talented to ensure efficient processes and cover all bases. We have well defined outsourcing interfaces with close interactions internally and externally with management as a part of the team. Being small keeps everyone focused and aware of what is going on, which quickly translates into customer satisfaction.

Thanks for your time.

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## Sensors and models

Model <sup>1)</sup>		Sensor	Resolution	Pixel size [µm]	ADC [bits]	DR [dB]	Optical size	Sensor size/diagonal [mm]	FPS <sup>2)</sup>
MC023MG-SY	b/w	Sony IMX174	1936 × 1216 2.3 Mpix	5.86	10, 12	72	1/1.2"	11.3 × 7.1 13.4	165
MC023CG-SY	color								
MC031MG-SY	b/w	Sony IMX252	2064 × 1544 3.1 Mpix	3.45	8, 10, 12	71	1/1.8"	7.1 × 5.3 8.9	122
MC031CG-SY	color								
MC050MG-SY	b/w	Sony IMX250	2464 × 2056 5.0 Mpix	3.45	8, 10, 12	71	2/3"	8.5 × 7.1 11.1	76
MC050CG-SY	color								
MC089MG-SY	b/w	Sony IMX255	4112 × 2176 8.9 Mpix	3.45	8, 10, 12	71	1"	14.2 × 7.5 16.1	43
MC089CG-SY	color								
MC124MG-SY	b/w	Sony IMX253	4112 × 3008 12.4 Mpix	3.45	8, 10, 12	70	1.1"	14.2 × 10.4 17.6	31
MC124CG-SY	color								

**Note 1:** Each model alternative has a respective model name suffix:

- "-TC" for the USB Type-C variant
- "-UB" for the USB Micro-B variant
- "-FL" for the flexline variant, connector parallel to board, semi-housed
- "-FV" for the flexline variant, connector vertical to board, semi-housed
- "-BRD" additionally for all of the above to address the board-level version

**Note 2:** Full resolution; 8 bits

## Contact

Please visit **www.ximea.com** for complete product information.  
Get in touch with our teams at **sales@ximea.com**.  
We will be glad to assist and consult you regarding our products.

Worldwide  
**XIMEA GmbH**

Am Mittelhafen 16  
48155 Münster  
Germany

**info@ximea.com**

Tel: +49 251 202 408-0  
Fax: +49 251 202 408-99

Slovakia and Czech Republic  
**XIMEA s.r.o.**

Lesna 52  
900 33 Marianka  
Slovakia

**info@ximea.com**

Tel: +421 (2) 205 104 26  
Fax: +421 (2) 205 104 27

Americas  
**XIMEA Corp.**

8725 W 14th Ave  
80215 Lakewood, CO  
USA

**info@ximea.com**

Tel: +1 (303) 389 9838  
Fax: +1 (303) 202 6350