ximea

xiC

USB 3.1 Gen1 cameras
with SONY Pregius sensors

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Small, light, and versatile with an incredible image quality.

Facts

- Sony Pregius global shutter sensors, 2.3 - 12.3 Mpix
- 5.0 Mpix at 76 fps
- 4K sensors at 43 fps
- Color and monochrome sensors
- USB 3.1 Gen1 fast and convenient interface
- 26 x 26 mm front face size with C/CS-mount

Features

- Low power consumption
- USB3 Vision compliant
- Various standard connector options: Micro-B, Type-C
- Ribbon cable variants for embedded systems
- Flexible GPIO, optoisolated and bidirectional
- High-quality images from Sony Pregius sensors
- Rugged and lightweight, aluminum alloy CNC machined housing

Small and lightweight

Designed to be as small as possible in size and mass, this device also has the world's lowest power consumption for these sensors. The xiC cameras will crush your performance goals.

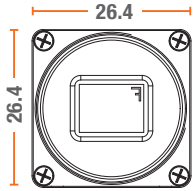
Versatile by design

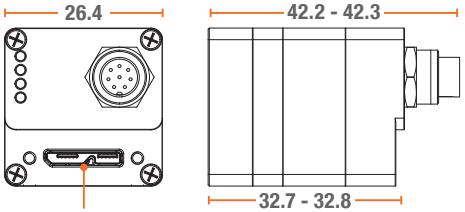
Thanks to its slim two-board stack size, the xiC camera line can be tightly integrated into embedded and multi-camera systems. Its small size and variety of interface configurations make it ideal for a high number of challenging applications. xiC cameras can be supplied in many configurations including various sensors in both color or monochrome, different data connection types (micro-B, type-C, or flex ribbon cable). This makes them compatible with the xiFLY system.

Familiar and free of hassle

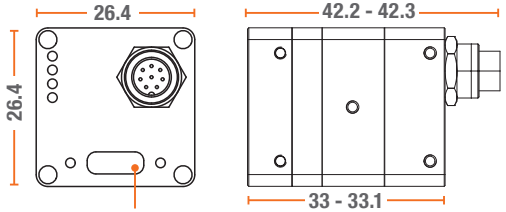
The standard USB interface offers a streamlined connectivity with the largest set of host computers. No auxiliary power is needed, as the cameras are fed direclty through the USB bus.
In case of the ribbon cable connection, all signals (power, data, IO) are integrated into the single link, reducing the number of extra cables.

Housed cameras



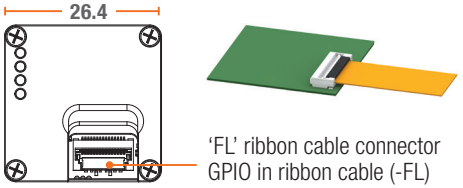


USB Micro-B connector (-UB)

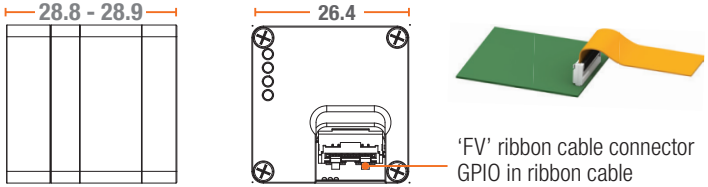


USB Type-C connector (-TC)

Semi-housed cameras



'FL' ribbon cable connector
GPIO in ribbon cable (-FL)



'FV' ribbon cable connector
GPIO in ribbon cable

Supported operating systems

Windows

Linux

macOS

Language support

python™

Standards

GEN<i>CAM TRANSPORT LAYER

USB VISION

Supported vision libraries

MATLAB

LabVIEW

HALCON a product of MVTec

OpenCV

and many more …

Sensors and models

Model [1]		Sensor	Resolution	Pix. size [µm]	ADC [bits]	DR [dB]	FWC [ke-]	Sensor size / diagonal [mm]	Optical size	Fps [2]	Power typical [W]
MC023MG-SY-UB	b/w	Sony IMX174	1936 x 1216 2.3 Mpix	5.86	10, 12	72	30.5	11.3 x 7.1 13.3	1/1.2"	165	2.2
MC023CG-SY-UB	color	Sony IMX174	1936 x 1216 2.3 Mpix	5.86	10, 12	72	30.5	11.3 x 7.1 13.3	1/1.2"	165	2.2
MC031MG-SY-UB	b/w	Sony IMX252	2064 x 1544 3.1 Mpix	3.45	8, 10, 12	71	9.9	7.1 x 5.3 8.8	1/1.8"	122	2.75
MC031CG-SY-UB	color	Sony IMX252	2064 x 1544 3.1 Mpix	3.45	8, 10, 12	71	9.9	7.1 x 5.3 8.8	1/1.8"	122	2.75
MC050MG-SY-UB	b/w	Sony IMX250	2464 x 2056 5 Mpix	3.45	8, 10, 12	71	9.8	8.5 x 7.1 11.0	2/3"	76	2.75
MC050CG-SY-UB	color	Sony IMX250	2464 x 2056 5 Mpix	3.45	8, 10, 12	71	9.8	8.5 x 7.1 11.0	2/3"	76	2.75
MC089MG-SY-UB	b/w	Sony IMX255	4112 x 2176 8.9 Mpix	3.45	8, 10, 12	70	9.8	14.2 x 7.5 16	1"	43	3.3
MC089CG-SY-UB	color	Sony IMX255	4112 x 2176 8.9 Mpix	3.45	8, 10, 12	70	9.8	14.2 x 7.5 16	1"	43	3.3
MC124MG-SY-UB	b/w	Sony IMX253	4112 x 3008 12.3 Mpix	3.45	8, 10, 12	70	9.9	14.2 x 10.4 17.5	1.1"	31	3.3
MC124CG-SY-UB	b/w	Sony IMX253	4112 x 3008 12.3 Mpix	3.45	8, 10, 12	70	9.9	14.2 x 10.4 17.5	1.1"	31	3.3

Notes

[1] In the model name please replace -UB with -TC for USB 3.1 Gen1 Type-C, -FL for flat-flex cable connecting from the bottom of the camera, -FV for flat-flex cable connecting perpendicular to the sensor.

[2] Full resolution, RAW8 format

Further information

Please visit us at **www.ximea.com** for complete and up-to-date specifications. Get in touch with our teams at **sales@ximea.com.** We will be glad to assist!

Sales offices

Worldwide

XIMEA GmbH

Am Mittelhafen 16
48155 Münster
Germany

Tel: +49 (251) 202 408 0

Slovakia and Czech Republic

XIMEA s.r.o

Lesna 52
900 33 Marianka
Slovakia

Tel: +421 (2) 205 104 26

America

XIMEA Corp.

8725 W 14th Ave
80215 Lakewood, CO
USA

Tel: +1 (303) 389 983 8

info@ximea.com