

xiQ

- smallest and lightest in its class
- lowest power consumption
- single board design

ximea



USB3.0 camera series

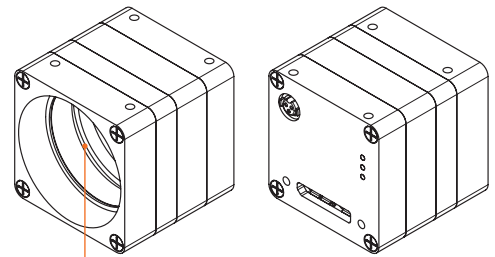
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The **xiQ** offers multiple choices for sensors, boards and connectors. Being extremely small and robust make this camera ideal for machine vision. Specifically the board-level units are a preferred choice for system integrators due to the single board design. These enable the customers to optimize their devices in size, compactness, and footprint. The low heat dissipation and low power consumption are complimentary advantages.

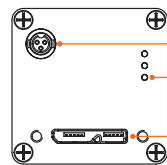
Quick facts

- Smallest footprint in class
- Lowest heat generation
- Single PCB, board-level versions available
- Lightest in class
- Lowest power consumption: 0.9 to 1.8W
- Frame rates: > 500 fps at VGA and 90 fps at 4 Mpix resolutions

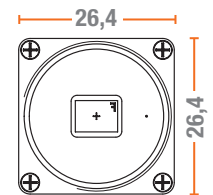
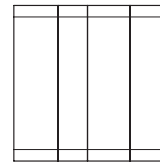
Housed cameras



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

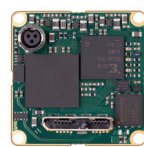


- 1 * fast opto-isolated input
- 1 * fast opto-isolated output
- LED indicators
- Standard USB3.0 Micro-B connector



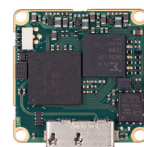
Board-level cameras¹

Various options for optimal system integration available



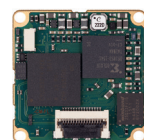
Standard Micro-B (-BRD)

- Board-level version of standard housed camera with Micro-B connector, perpendicular to board surface
- Circular Hirose 3-pin connector for GPIOs



Slim-Line Micro-B (-SL-BRD)

- Micro-B connector, parallel to board surface
- Flat JST 4-pin connector for GPIOs



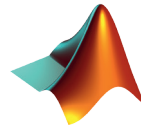
Flex-Line board (-FL-BRD)

- Connector for flat flex cables (FFC) including USB3.0 and USB2.0 signals and GPIOs
- Additional flat JST 4-pin connector for GPIOs

Note 1: Board level cameras are OEM items subject to minimum order quantities.
-SL and -FL versions are only available with selected sensor models - please inquire.

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

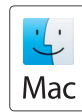
Supported operating systems



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		Sensor	Resolution	Pixel size [µm]	ADC [bits]	DR [dB]	Optical size	Sensor size/diagonal [mm]	FPS ²⁾	Max. power consumption
MQ003MG-CM	b/w	CMOSIS CMV300	648 × 488 VGA	7.4	10	60 ¹⁾	1/3"	4.8 × 3.6 5.9	>500	1.3
MQ003CG-CM	color									
MQ013MG-E2	b/w	E2V EV76C560	1280 × 1024 1.3 Mpix	5.3	10	>60	1/1.8"	6.9 × 5.5 8.7	60	0.9
MQ013CG-E2	color									
MQ013RG-E2	b/w NIR	E2V EV76C661								
MQ013MG-ON	b/w	Onsemi PYTHON1300	1280 × 1024 1.3 Mpix	4.8	10	>56	1/2"	6.2 × 5.0 7.9	172	1.4
MQ013CG-ON	color									
MQ022MG-CM	b/w	CMOSIS CMV2000	2048 × 1088 2.2 Mpix	5.5	10	60 ¹⁾	2/3"	11.3 × 6.0 12.8	170	1.8
MQ022CG-CM	color									
MQ022RG-CM	b/w NIR									
MQ042MG-CM	b/w	CMOSIS CMV4000	2048 × 2048 4.2 Mpix	5.5	10	60 ¹⁾	1"	11.3 × 11.3 15.9	90	1.8
MQ042CG-CM	color									
MQ042RG-CM	b/w NIR									

Note 1: HDR mode available

Note 2: RAW, 8 bit, full resolution

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.

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