USB3 Vision camera series

smallest single board design • lowest power consumption • ultra-fast





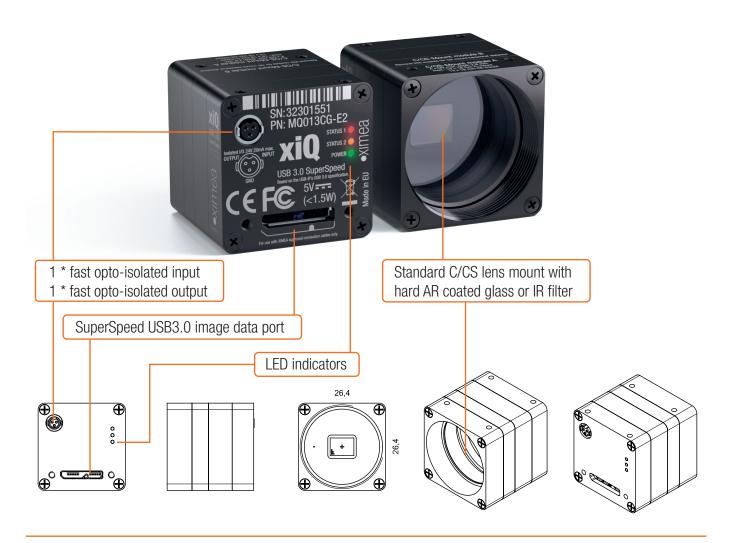
xiQ - quick facts

xiQ [ksi-kju: or sai-kju:] is an ultra-compact USB3 Vision Standard compatible industrial camera family with outstanding features:

- Extremely small footprint
- Lowest thermal dissipation
- Single PCB, board level versions available: perfect for OEM integration



Industry standard interface	Compliant with USB 3.0 SuperSpeed specification				
AIA standard compatibility	USB3 Vision Standard Compliant				
Small	Fits into places where no other camera can fit				
Cool	Due to low power consumption, 0.9 to 1.8 W, supplied via USB3.0 interface				
Effective	5 Gb/s interface up to 400 Mpix/s data throughput				
Fast	High speed, high frame rate: >500 fps at VGA and 90 fps at 4 Mpix resolutions				
Robust	Full metal housing, no sheet metal covers				
Lightweight	Facilitates increased performance of robotic arms and gimbals				
Lens mount	Standard C-mount, convertible to CS mount or board level without mount				
Connectivity	Programmable opto-isolated input and output, 3 status LEDs				
Compatible	Support for Windows, Linux and Mac OS X, largest range of Image Processing Libraries				
Software interfaces	GenlCam / GenTL and highly optimized xiAPI SDK				
Auto adjustments	Auto white balance, auto gain, auto exposure				
Sensor Technology	Most recent generation of CMOS sensors with global shutter				
Economical	Excellent value and price, low TCO and fast ROI				



xiQ - leading vision libraries supported

- Quick integration with third-party software using our easy-to-learn API/SDK and many examples made for AQSENSE SAL3D, Open CV, Aforge.NET, etc.
- All XIMEA cameras are plug-and-play compatible with most of the major image processing libraries on the market, including MVTec HALCON, National Instruments LabVIEW, MathWorks MATLAB, STEMMER IMAGING Common Vision Blox, OpenCV and many others.
- Support for GenlCam/GenTL ensures forward compatibility with emerging image processing libraries, frameworks and packages.
- One-stop support of the camera and vision libraries integration.
- Open online community: Share experience, exchange knowledge and solutions at www.ximea.com/community.

Compatible with more than 30 popular machine vision libraries:

Please checke webstie for up-to-date list:



























































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xiQ - series camera specifications

Sensors and models:

Model 1)		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	648x488 VGA	7.4	10	60 ²⁾	1/3"	4.8 x 3.6 5.9	>500	1.3
MQ003CG-CM	Color									
MQ013MG-E2	b/w	E2V EV76C560 E2V EV76C661	1280x1024 - 1.3 MP	5.3	10	>60	1/1.8"	6.9 x 5.5 8.7	60	0.9
MQ013CG-E2	Color									
MQ013RG-E2	b/w NIR									
MQ013MG-ON	b/w	Onsemi VITA1300	1280x1024 1.3 MP	4.8	10	53	1/2"	6.2 x 5.0 7.9	150	1.4
MQ013CG-ON	Color									
MQ022MG-CM	b/w	CMOSIS CMV2000	2048x1088 2.2 MP	5.5	10	60 ²⁾	2/3"	11.3 x 6.0 12.8	170	1.8
MQ022CG-CM	Color									
MQ022RG-CM	b/w NIR									
MQ042MG-CM	b/w		2048x2048 4.2 MP	5.5	10	60 ²⁾	1"	11.3 x 11.3 15.9	90	1.8
MQ042CG-CM	Color	CMOSIS CMV4000								
MQ042RG-CM	b/w NIR									

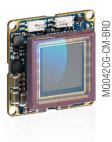
Note 1: Please add "-BRD" in the model name to address the board level cameras

Note 2: HDR mode available

Note 3: RAW, 8 bit, full resolution

Interfaces, connectors, environmental:

Description	Value				
Optimum ambient temperature	+10 to +25 °C				
Ambient temperature operation	-10 to +55 °C (non condensing humidity)				
Environment	Ingress Protection IP40				
USB3.0 connectors	Standard USB3.0 Micro-B connnector with thumbscrews				
I/O & sync connector	Hirose SR38-4R-3S(71) with optional locking nut				



Compatibility:

Standard Windows, Linux & MacOS operation systems • GenlCam / GenTL • Single SDK/API for all XIMEA camera models.

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Contact:

Please visit **ximea.com** for complete product information.

E-mail our sales team at **sales@ximea.com** for your price and further information.



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