



ximea

xiQ

USB3 compact cameras

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A superb workhorse: smallest, lightest and single board design

Facts

- Small 26 x 26 mm or 1x1" front face size
- Lightweight at 32 g
- VGA sensor at > 500 fps
- 1080p Full HD at 170 fps
- RGB, monochrome and NIR enhanced sensors

Features

- Standardized industrial grade USB interface
- Unique single PCB layout
- Lowest power consumption
- Flexible/programmable GPIO option
- USB3 Vision[®] compliant
- Very compact cameras
- Available as housed, semi-housed and board level versions
- Rugged and lightweight, aluminum alloy CNC machined housing



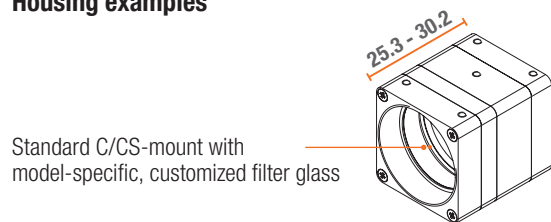
Big in performance, small in size

Designed to be tiny in size, low in mass and with high efficiency, this series is a tremendous asset in the machine vision and mobile scenarios. Its compact design offers superb options in mobile solutions. The extremely low power consumption results in excellent properties in heat sensitive environments.

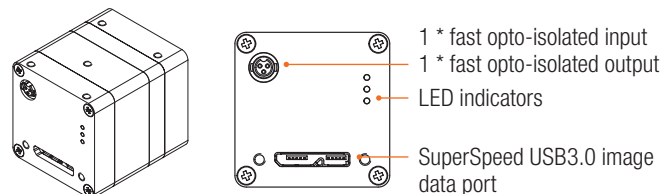
Versatile

The semi-housed version comes as a complete camera with a cutout in the housing for flex ribbon connection. It relieves the integrator of the necessity to handle sensitive board level units where sensors and electronics are easily damaged in an integration process. The flat ribbon cable saves valuable z-axis space in cramped environments. Data, power, and IOs all run through this cable making integration a breeze.

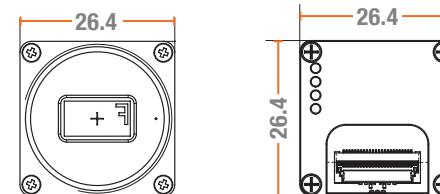
Housing examples



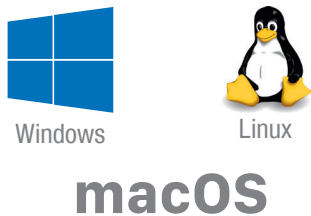
Housed cameras with Micro-B connector



Semi housed cameras with 'FL' ribbon cable connector



Supported operating systems



Language support



Standards



Supported vision libraries



and many more ...

Sensors and models

Model	Sensor	Resolution	Pix. size [µm]	ADC [bits]	DR [dB]	Sensor size / diagonal [mm]	Optical size	Fps	Power typical [W]	
MQ003MG-CM ⁴	b/w	CMOSIS CMV300	640 x 480 0.3 Mpix	7.4	12	60 ³	4.8 x 3.6 6	1/3"	500 ¹	1.5
MQ003CG-CM ⁴	color	CMOSIS CMV300	640 x 480 0.3 Mpix	7.4	12	60 ³	4.8 x 3.6 6	1/3"	500 ¹	1.5
MQ013MG-E2 ^{4,5,7,9}	b/w	e2v EV76C560	1280 x 1024 1.3 Mpix	5.3	10	53	6.9 x 5.5 8.8	1/1.8"	61 ¹	0.75
MQ013CG-E2 ^{4,5,7,9}	color	e2v EV76C560	1280 x 1024 1.3 Mpix	5.3	10	53	6.9 x 5.5 8.8	1/1.8"	61 ¹	0.75
MQ013RG-E2 ^{4,5,7,9}	b/w NIR	e2v EV76C661	1280 x 1024 1.3 Mpix	5.3	10	60	6.9 x 5.5 8.8	1/1.8"	61 ¹	0.75
MQ013MG-ON ⁴	b/w	OnSemi PYTHON1300	1280 x 1024 1.3 Mpix	4.8	10	56	6.2 x 5.0 7.9	1/2"	172/210 ²	1.3
MQ013CG-ON ⁴	color	OnSemi PYTHON1300	1280 x 1024 1.3 Mpix	4.8	10	56	6.2 x 5.0 7.9	1/2"	172/210 ²	1.3
MQ013RG-ON ⁴	b/w NIR	OnSemi PYTHON1300	1280 x 1024 1.3 Mpix	4.8	10	56	6.2 x 5.0 7.9	1/2"	172/210 ²	1.3
MQ022MG-CM ^{4,5,7}	b/w	CMOSIS CMV2000	2048 x 1088 2.2 Mpix	5.5	10	60 ³	11.3 x 6.0 12.8	2/3"	170 ¹	1.5
MQ022CG-CM ^{4,5,7}	color	CMOSIS CMV2000	2048 x 1088 2.2 Mpix	5.5	10	60 ³	11.3 x 6.0 12.8	2/3"	170 ¹	1.5
MQ022RG-CM ^{4,5,7}	b/w NIR	CMOSIS CMV2000	2048 x 1088 2.2 Mpix	5.5	10	60 ³	11.3 x 6.0 12.8	2/3"	170 ¹	1.5
MQ042MG-CM ^{4,5,7}	b/w	CMOSIS CMV4000	2048 x 2048 4.1 Mpix	5.5	10	60 ³	11.3 x 11.3 15.9	1"	90 ¹	1.5
MQ042MG-CM ^{4,5,7}	color	CMOSIS CMV4000	2048 x 2048 4.1 Mpix	5.5	10	60 ³	11.3 x 11.3 15.9	1"	90 ¹	1.5
MQ042MG-CM ^{4,5,7}	b/w NIR	CMOSIS CMV4000	2048 x 2048 4.1 Mpix	5.5	10	60 ³	11.3 x 11.3 15.9	1"	90 ¹	1.5
MQ042MG-CM-TG	b/w	CMOSIS CMV4000	2048 x 2048 4.1 Mpix	5.5	10	60 ³	11.3 x 11.3 15.9	1"	90 ¹	1.5
MQ042CG-CM-TG	color	CMOSIS CMV4000	2048 x 2048 4.1 Mpix	5.5	10	60 ³	11.3 x 11.3 15.9	1"	90 ¹	1.5

Notes

- ¹ Full resolution, RAW8 format
- ² Full resolution, RAW8 format, sensor is not operating in Zero ROT mode / sensor is operating in Zero ROT mode
- ³ HDR mode available
- ⁴ In the model name please add -BRD to address the board-level camera
- ⁵ In the model name please add -FL-BRD to address the board-level camera with horizontal orientation of flat ribbon connector
- ⁷ In the model name please add -FL to address camera with horizontal orientation of flat ribbon connector
- ⁹ In the model name please add -SL-BRD to address slim-line board-level camera

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!



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