xiT

- Thunderbolt™
- unprecedented interoperability
- high speed as standard

Ximea

Thunderbolt cameras

xiT

[sci-ti:]
or [ksi-ti:]

The **xiT** series comes with a Thunderbolt™ 1 and Thunderbolt 2 interface depending on the model, offering high speeds with no extra host hardware required. Streaming data is handled by DMA and consequentially CPU load is minimal. Upcoming models are planned based on the Thunderbolt 3 interface technology.

Quick facts

- Smallest in class
- Lowest power consumption
- 10 GBit/s and 20 GBit/s via a single cable up to 60 m

- No frame grabber required
- DMA (direct memory access) image data transfer
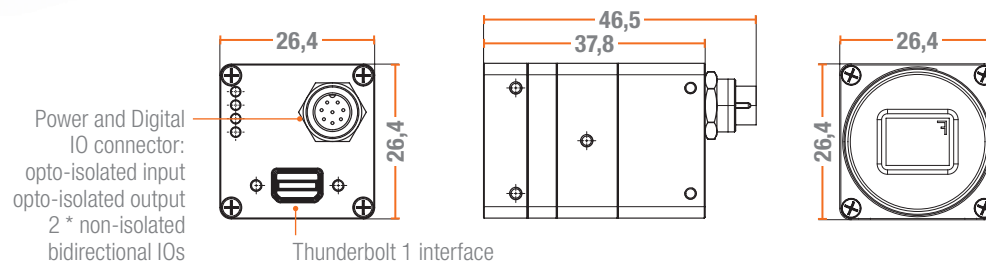- Global shutter sensors

Housed cameras

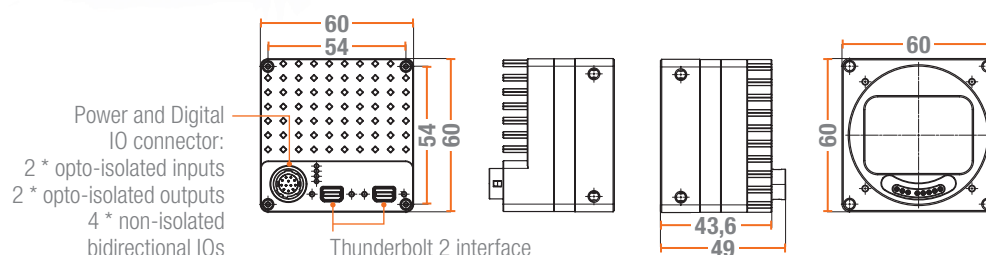Two options for housing, speed and resolution are available

Smallest size

- Thunderbolt 1 interface for direct bidirectional access with up to 20 GBit/s
- Dual powered: bus powered or AUX powered
- Standard C-mount, convertible to CS-mount

26,4   **26,4**

Power and Digital IO connector: opto-isolated input opto-isolated output 2 * non-isolated bidirectional IOs

46,5
37,8

26,4

26,4
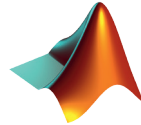
Thunderbolt 1 interface

High resolution

- Thunderbolt 2 interface for direct bidirectional access with up to 20 GBit/s
- Daisy chain interconnection possible
- Integrated active Canon EF lens adapter for dynamic control of aperture and focus

60
54

Power and Digital IO connector: 2 * opto-isolated inputs 2 * opto-isolated outputs 4 * non-isolated bidirectional IOs

54 **60**

60

60

43,6
49

Thunderbolt 2 interface

Supported vision libraries

Compatible with more than 30 popular machine vision libraries

HALCON
a product of MVTec

OpenCV

POWERED BY
NATIONAL INSTRUMENTS
LabVIEW

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

OS X

Standards

GEN<i>CAM
TRANSPORT LAYER

THUNDERBOLT

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.

xiT *lightning-fast*

Smallest size - Sensors and models

Model		Sensor	Resolution	Pixel size [µm]	ADC [bits]	DR [dB]	Sensor size/ diagonal [mm]	FPS [1]	Size [mm]
MT023MG-SY	b/w	SONY IMX174	1936 × 1216 2.35 Mpix	5.86	10, 12	72	11.3 × 7.1 13.4	165	26.4 × 26.4 × 37.8
MT023CG-SY	color								

Note 1: RAW 10 bit; 128 FPS in RAW 12 bit

High resolution - Sensors and models

Model		Sensor	Resolution	Pixel size [µm]	ADC [bits]	DR [dB]	Sensor size/ diagonal [mm]	FPS	Size [1] [mm]
MT200MG-CM	b/w	CMOSIS CMV20000	5120 × 3840 5K: 20 Mpix	6.4	12	66	32.8 × 24.6 41	32	60 × 60 × 44
MT200CG-CM	color								

Note 1: without lens adapter

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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