



•ximea

**xiD**

High image quality USB3 cameras  
with SONY CCD sensors



# xiD High image quality CCD cameras

Fast CCD cameras with USB3 interface and SONY CCD sensors

## Facts

- 2.8 - 12 Mpix resolution
- Frame rates up to 56.9 fps
- Scientific grade CCD interline transfer sensors
- Ultra-low noise with passive sensor cooling
- 1, 2 or 4 tap readout with 14 bit ADC
- Compact dimensions 60 x 60 x 37 mm
- C-mount for a wide selection of lenses

## Features

- USB3 connectivity with separate GPIO
- Sony ICX with "EXview HAD CCD II" pixel technology
- Lowest power consumption
- Improved light efficiency for NIR spectrum
- USB3 bus powered
- Precision CNC machined, all-aluminum alloy rugged housing



## High quality imaging

The xiD cameras provide ultimate image quality through the use of SONY ICX sensors with HAD II pixel technology. Suitable for scientific imaging, research, microscopy and any application with the most stringent requirements. As CCDs, they boast high sensitivity and 14 bit dynamic range. The cameras have excellent passive cooling properties, great performance and a standard USB interface.

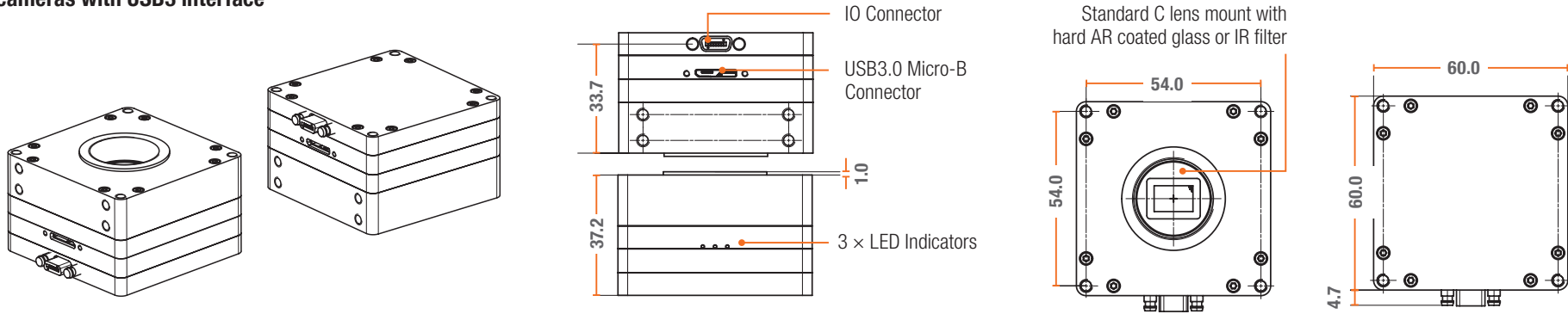
## No compromise on speed

These sensors shine by using 4 separate read-out channels, leading to a data transfer of 56.9 fps for the 2.8 Mpix camera. Even the 12 Mpix camera delivers 15.3 fps – all with CCD image quality.

## 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 directly through the USB bus. Easy to set up, easy to use.

### CCD cameras with USB3 interface



### Supported operating systems



Windows



Linux

macOS

### Language support



python™

### Standards

GEN<i>i>CAM  
TRANSPORT LAYER

### Supported vision libraries



MATLAB

HALCON  
a product of MVTec



and many more ...

## Sensors and models

Model		Sensor	Resolution	Pix. size [µm]	ADC [bits]	DR [dB] <sup>1</sup>	FWC [ke-]	Sensor size / diagonal [mm]	Optical size	Fps <sup>2</sup>	Power typical [W] <sup>3</sup>
MD028MU-SY	b/w	Sony ICX674AL	1936 x 1456 2.8 Mpix	4.54	14	68	20	8.8 x 6.6 10.9	2/3"	56.9	3.6
MD028CU-SY	color	Sony ICX674AQ	1936 x 1456 2.8 Mpix	4.54	14	68	20	8.8 x 6.6 10.9	2/3"	56.9	3.6
MD061MU-SY	b/w	Sony ICX694AL	2752 x 2202 6 Mpix	4.54	14	67	19.5	12.5 x 10.0 16	1"	28.4	4.1
MD061CU-SY	color	Sony ICX694AQ	2752 x 2202 6 Mpix	4.54	14	67	19.5	12.5 x 10.0 16	1"	28.4	4.1
MD091MU-SY	b/w	Sony ICX814AL	3384 x 2708 9.1 Mpix	3.69	14	64	12	12.5 x 10.0 15.9	1"	19.5	4.6
MD091CU-SY	color	Sony ICX814AQ	3384 x 2708 9.1 Mpix	3.69	14	64	12	12.5 x 10.0 15.9	1"	19.5	4.6
MD120MU-SY	b/w	Sony ICX834AL	4244 x 2832 12 Mpix	3.1	14	62	10	13.2 x 8.8 15.8	1"	15.3	4.95
MD120CU-SY	color	Sony ICX834AQ	4244 x 2832 12 Mpix	3.1	14	62	10	13.2 x 8.8 15.8	1"	15.3	4.95

### Notes

<sup>1</sup> 26 MHz readout frequency

<sup>2</sup> Full resolution. 4-TAP readout 14 bit/pixel

<sup>3</sup> Measured at 4TAP/52MHz readout

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Please visit us at [www.ximea.com](http://www.ximea.com) for complete and up-to-date specifications. Get in touch with our teams at [sales@ximea.com](mailto:sales@ximea.com). We will be glad to assist!