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

Supported vision libraries
MATLAB
HALCON
OpenCV
and many more…
Sensors and models

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<td>b/w Sony ICX674AL</td>
<td>1936 x 1456 2.8 Mpix</td>
<td>4.54</td>
<td>14</td>
<td>68</td>
<td>20</td>
<td>8.8 x 6.6 11</td>
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Notes
1 26 MHz readout frequency
2 Full resolution. 4-TAP readout 14 bit/pixel
3 Measured at 4TAP/120MHz readout

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!