USB3 High-end
CCD camera series

ximea

single board design • USB3.0 bus powered • fastest multi-tap readout

xiD

board level and housed cameras

xiD is an ultra-compact USB3.0 camera family using the most recent CCD sensors for industrial and scientific purposes with outstanding features:

- ultra-low read-out noise, clear 14 bits/pixel images in all modes
- partial readout and several binning modes with enhanced sensitivity and highest frame rates
- board level cameras available

Sensors and models:

Model [1]	Sensor	Resolution	Pixel size [µm]	ADC [bits]	DR [dB] [2]	FWC [e-]	Sensor size [mm]	Diagonal [mm]	Power [W]	FPS [3]
MD028xU-SY	SONY ICX674	1934 x 1456, 2.8 MP	4.54	8,10,12,14	71.1	20000	8.8 x 6.6	11	3.6 W	56.9
MD061xU-SY	SONY ICX694	2754 x 2204, 6.1 MP	4.54	8,10,12,14	71.8	19500	12.5 x 10.0	16	3.9 W	28.4
MD091xU-SY	SONY ICX814	3384 x 2708, 9.1 MP	3.69	8,10,12,14	68.4	12000	12.5 x 10.0	16	4.2 W	19.5
MD120xU-SY	SONY ICX834	4242 x 2830, 12.0 MP	3.1	8,10,12,14	63.1	10000	13.2 x 8.8	15.8	4.5 W	15.3

Note 1: various models available: x = C color, M mono   **Note 2:** 26 MHz readout frequency   **Note 3:** 52 MHz, 4 taps, RAW14 bits; + 20% in overclocked mode, 12bit packed

- Sony "EXview HAD CCD II" pixel technology with improved light efficiency for the near-infrared spectrum
- XIMEA's proprietary CLEANPATH - readout and sensor driving circuitry, enabling scientific imaging with extremely low readout noise and high fidelity in color reproduction.
- Global shutter CCD with interline transfer - 1, 2 or 4 tap readout with 14 bit ADC
- No selected grades - all cameras are scientific grade

Compatibility:

Standard **Windows, Linux & MacOS** operation systems ● USB3.0 ● GenICam / GenTL ● Single SDK/API for all XIMEA camera models. Compatible with the widest range of vision libraries. Please check website for up-to-date list!

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