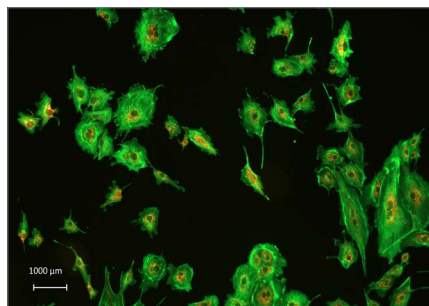


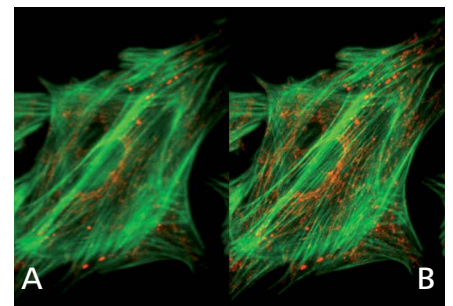


ZEISS Axiocam 512 mono

Your 12 Megapixel Microscope Camera for Imaging of Large Sample Areas



Indian Muntjac fibroblast cells with 10x/0.45 PlanApochromat. AlexaFluor 488 Phalloidin & MitoTracker Red CMXRos. Samples courtesy of Michael Davidson, Florida State University.



(A) binning 2x2 pixel size 6.2 microns demonstrating image undersampling (B) binning 1x1 pixel size 3.1 microns demonstrating proper image sampling.

Axiocam 512 mono is your 12 Megapixel camera offering more than 4K high resolution imaging for stunning details. Capture the smallest features of your sample with low magnification objectives – this camera is designed for fluorescence imaging with the maximum field of view.

Axiocam 512 mono brings you detailed images of your sample with amazing speed and sensitivity. Be surprised with what you can do.

Highlights

- 12 Megapixel CCD chip sensor with 10 full frame images per second
- Fast Quad-Port readout
- Small 3.1 micron pixels for optimal low magnification resolution
- Easy super speed USB 3.0 connection
- High sensitivity black & white imaging with extended spectral range
- Real pixel charge binning for speed gains and extra sensitivity
- Compatible with all ZEISS microscope stands
- Fast and efficient operation with ZEN Software

Fast, Large Format Imaging

Paired with superior ZEISS optics, you'll see more detail in your images and capture larger samples than you thought. With 3 times the pixels of most CMOS cameras you have resolution to spare and the possibility to boost signal and reduce noise by binning.

The huge Axiocam 512 mono 16 millimeter diagonal sensor can capture large areas of your sample with each snap. This enables rapid collection of tiled images or pairing with a low magnification objectives to acquire entire samples in a single snap and see the details by expanding your image. With easy to use USB 3.0 connection and ZEN software, this camera brings simplicity to perfection.





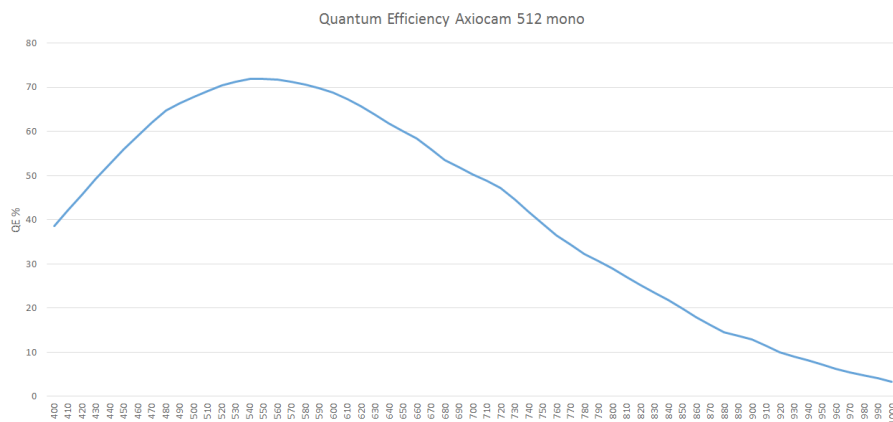
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Technical Data	
Sensor Model	Sony ICX 834, EXview HAD CCD II™
Sensor Pixel Count	12 Megapixel: 4250 (H) × 2838 (V)
Pixel size	3.1 µm x 3.1 µm
Sensor size	Effective sensor size: 13,2 mm x 8,8 mm; image diagonal 16 mm, equivalent to 1" sensor format
Spectral Range	Approx. 350 nm – 1000 nm, coated BK 7 protective glass
Range of integration time	250 µs to 60 s
Live image	>10 frames/s at max @ 4248 x 2832 pixels
Read-out mode	Quad-Port
Digitization	14 Bit / Pixel
Interfaces	USB 3.0 SuperSpeed (5 Gbit/s)
Optical interface	C-Mount (17.5 mm)
Size (W x H x D) / Weight	10.8 cm x 4.3 cm x 7.8 cm / 500 g
Power supply	Max. 7 W power consumption power by USB 2.0 and USB 3.0-Bus from PC
Max Full Well Capacity (typical)	9.000 e-
Readout Noise (typical)	6.8 e- at 39 Mhz; 6.5 e- at 13 Mhz
Cooling	Regulated thermoelectric cooling (power supplied through USB 2.0 ports) Cap sensor temperature 23 °C

Binning	Pixel Count (H x V)	Mode	FPS @ 1 ms
1x1	4248 x 2832	Mono	10
2x2	2120 x 1416	Mono	19
3x3	1416 x 944	Mono	26
4x4	1056 x 708	Mono	31
5x5	848 x 564	Mono	35
ROI	1936 x 1080	Mono	22
ROI	1936 x 512	Mono	36

(exposure time = 1 ms)



Not all products are available in every country. Use of products for medical diagnostic, therapeutic or treatment purposes may be limited by local regulations. Contact your local ZEISS representative for more information.

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microscopy@zeiss.com
www.zeiss.com/axiocam

