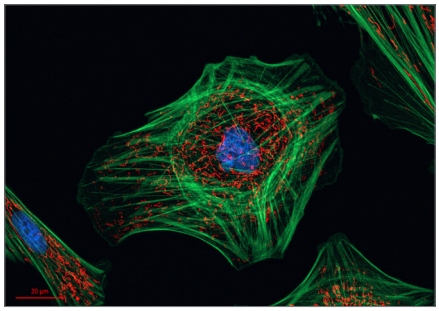
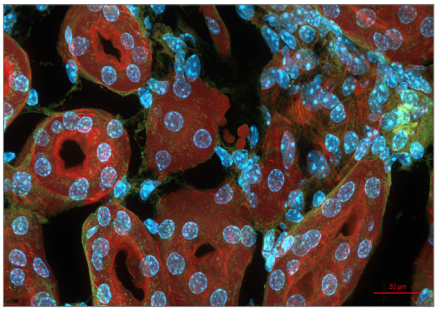
ZEISS Axiocam 702 mono

Your 2.3 Megapixel Microscope Camera for Fast Low Light and Live Cell Imaging



Indian Muntjac cultured cells. Sample courtesy of Michael W. Davidson, Florida State University



Mouse kidney section. Sample courtesy of Michael W. Davidson, Florida State University

Axiocam 702 mono is your ZEISS CMOS camera designed with low light conditions and high speed in mind – perfect for live cell imaging. High sensitivity keeps your live specimen happy while acquiring at more than 100 frames per second.

Axiocam 702 mono brings extreme camera performance and excellent image quality at an economical price.

Low Light and Fast Imaging

Whether the task is high resolution imaging requiring sensitivity or keeping up with fast dynamic events, Axiocam 702 mono can do the job. Axiocam 702 mono uses a global shutter CMOS chip offering full frame speeds of 128 frames per second and more than 1000 frames per second with smaller frame sizes. Easy to use and learn ZEN software drives the camera with seamless integration and compatibility with multiple ZEISS stands and microscopes systems.

Highlights

- 2.3 Megapixel low image noise CMOS sensor
- More than 100 frames per second with full chip
- HDR (High Dynamic Range) mode for extended bit depth imaging
- Simple USB 3.0 connection
- Global shutter readout avoids CMOS rolling shutter image distortions
- Hardware trigger support in ZEN multi-dimensional acquisition
- Fast and efficient operation with ZEN Software

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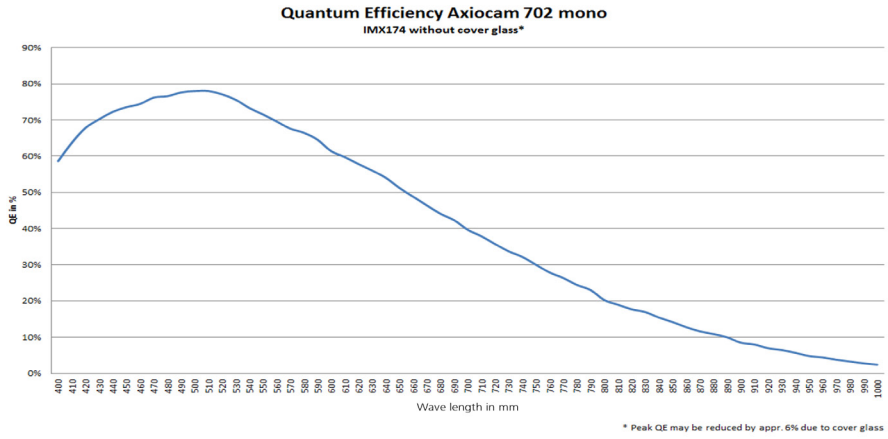
Technical Data	
Sensor Model	Sony IMX174 Exmor Pregius, CMOS
Sensor Pixel Count	1920 (H) x 1216 (V) 2.3MP
Pixel size	5.86 µm x 5.86 µm
Sensor size	11.3 mm x 7.1mm; image diagonal 13.3mm, equivalent to 1/1.2" sensor format
Spectral Range	Approx. 350 nm – 1000 nm, coated BK 7 protective glass
Range of integration time	100µs - 60 s
Live image	Max >100 fps @ 1920 x 1216
Read-out mode	Octa Port Readout
Digitization	14 bit (by data processing, native 12 bit by ADC)
Interfaces	Hardware trigger interface
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)	32000 e
Dynamic Range	1:5000 (gain 1x), 1:25000 (HDR mode)
Readout Noise (typical)	3.7e (gain 1x)
Cooling	Regulated thermoelectric cooling (power supplied through USB 2.0 ports) Delta-T 23 °C, sensor temperature 15 °C
Order number	426560-9010-000

Pixel Count (H x V)	FPS @ Exposure Time <1 ms
1920 x 1216	128
1920 x 720	210
1920 x 512	288
1920 x 256	534
1920 x 128	881
1920 x 112	1003



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