

Axiocam 305 mono

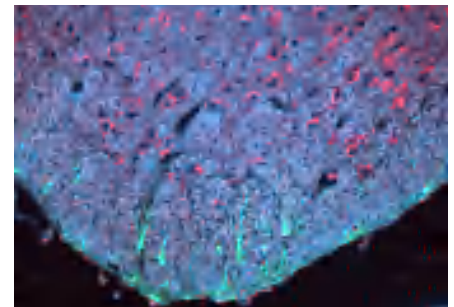


ZEISS Axiocam 305 mono

Your Fast 5 Megapixel Microscope Camera for Routine Fluorescence Applications



EOSIN staining of brine shrimp.



*Antibody staining of mouse brain section.
Cell nuclei (blue), astrocytes (green), cytokeratin (red).*

Routine Fluorescence Documentation

Axiocam 305 mono your 5 megapixel camera from ZEISS for high resolution imaging at fast speeds. State-of-the-art CMOS Global Shutter technology lets you follow and capture samples accurately. Thanks to its high dynamic range, you can acquire images with various high contrasts and intensities in a single image. A dark homogenous background helps you see even the finest structural details. And it's a really fast camera, acquiring up to 36 frames per second at full resolution.

Highly sensitive sensor technology and sophisticated camera engineering means your Axiocam 305 mono will deliver best quality images every time. The sensor is temperature-stabilized, resulting in reproducible quality and reduced background noise. Easy to use ZEN imaging software fully supports the robust camera performance by an intuitive user interface. Fast reaction times are assured through the high bandwidth USB 3.0 connection, which also provides the camera power.

Highlights

- 5 Megapixel CMOS chip sensor
- Fast readout with 36 full frame images per second
- Small 3.45 micron pixels
- Easy and fast USB 3.0 connection, easy to operate, plug and play
- Global shutter readout avoids CMOS rolling shutter image distortions
- Compatible with all ZEISS microscope stands with a camera port
- Fast and efficient operation with ZEN imaging software



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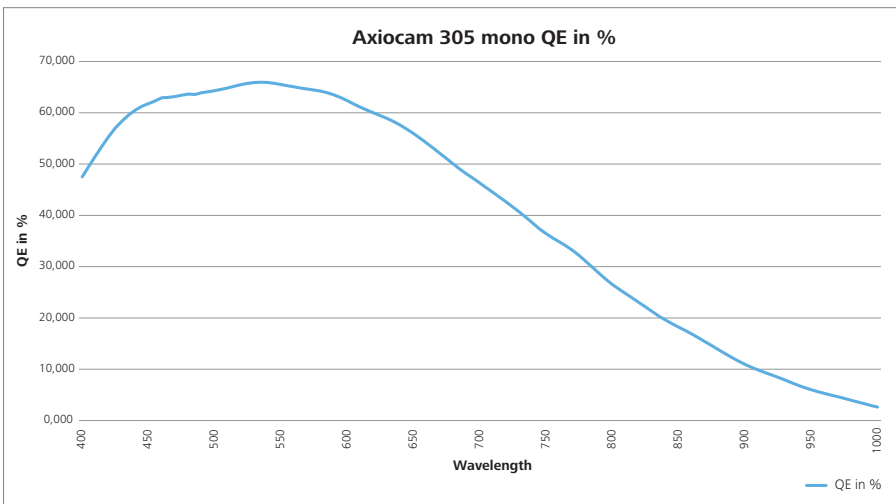
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Technical Data

| | |
|------------------------------|--|
| Sensor Model | Sony IMX 264 Exmor Pregius, CMOS |
| Sensor Pixel Count | 5 Megapixel: 2,464 (H) × 2,056 (V) |
| Pixel Size | 3.45 μm × 3.45 μm |
| Sensor Size | 8.5 mm × 7.1 mm; image diagonal 11.1 mm, equivalent to 2/3" sensor format |
| Exposure Time | 100 μs to 4 s |
| Live Image | 36 frames/s @ 2,464 × 2,056 pixels |
| Read-out Mode | Quad-Port readout |
| Digitization | 8 or 12 Bit/Pixel |
| Interfaces | USB 3.0 SuperSpeed (5 Gbit/s) |
| Optical Interface | C-Mount (17.5 mm) Recommended Camera Adapters 0.5×, 0.63×, 1.0× |
| Size (W × H × D) / Weight | 10.8 cm × 5.0 cm × 7.8 cm / 580 g |
| Power Supply | Max. 4 W power consumption through USB 3.0-Bus from PC |
| Full Well Capacity (typical) | 10,500 e ⁻ at gain 1x |
| Readout Noise (typical) | 2.2 e ⁻ at gain 1x |
| Cooling | Temperature stable at 25 °C for ambient temperatures between 18 °C and 30 °C |
| Order Number | 426560-9040-000 |

| Subsampling | Pixel Count (H × V) | Mode | FPS at 1 ms |
|-------------|---------------------|------|-------------|
| 1×1 | 2,464 × 2,056 | Mono | 36 |
| 2×2 | 1,232 × 1,028 | Mono | 88 |
| 1×1, ROI | 2,048 × 2,048 | Mono | 36 |
| 1×1, ROI | 1,920 × 1,080 | Mono | 67 |
| 1×1, ROI | 1,024 × 1,024 | Mono | 70 |
| 1×1, ROI | 512 × 512 | Mono | 136 |
| 1×1, ROI | 256 × 256 | Mono | 255 |
| 1×1, ROI | 128 × 128 | Mono | 456 |



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