

Make your microscope smarter.



ZEISS Axiocam 203 mono

Your 3 Megapixel Stand-alone Microscope Camera
for Fluorescence Documentation

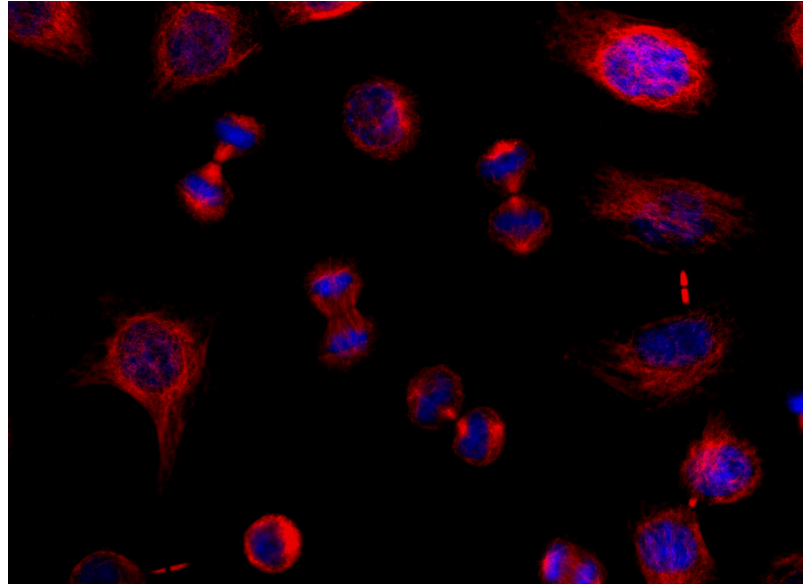
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Seeing beyond

ZEISS Axiocam 203 mono

Your 3 Megapixel Stand-alone Microscope Camera for Fluorescence Documentation



HeLa Kyoto #7 (Alexa 488, Alexa 647 and Hoechst 33342) in fluorescence contrast, acquired with ZEISS Axioscope 5, objective: EC-Plan Neofluar, 40x

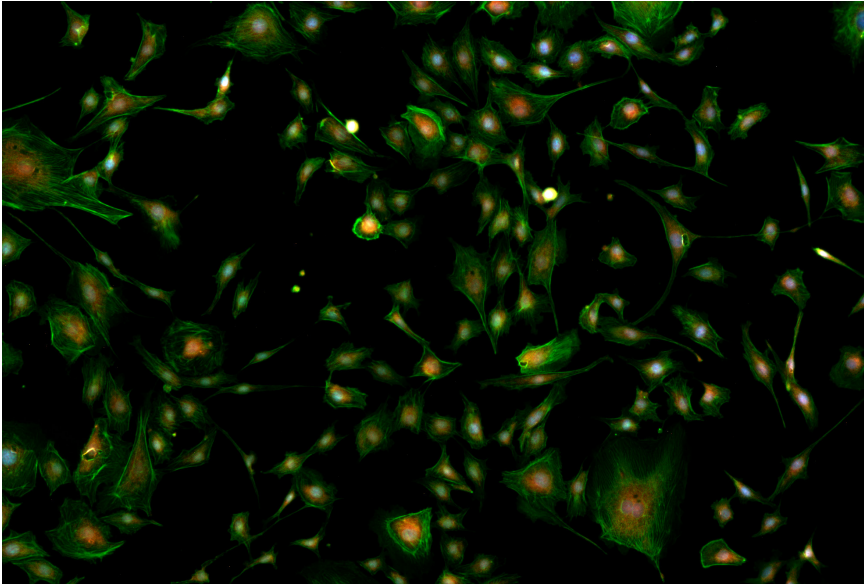


ZEISS Axiocam 203 mono is your 3-megapixel monochrome camera especially designed for routine fluorescence microscopy tasks. It features smart automation that makes capturing Full-HD images simple and fast. With its built-in CMOS sensor, the camera can operate independently without a PC, allowing you to easily acquire monochrome images. The exposure time and white balance adjusts automatically. All you need to do is press the snap button to capture and save images directly to an USB flash drive. No training required. If needed, image parameters can be changed using the on-screen display (OSD) menu. Also, acquired images can be managed, scrolled through and viewed using the built in Filebrowser either on USB Stick or simply on your own network.

Make your microscope smart with Axiocam 203 mono.

When paired with smart microscopes like AxioLab 5, Axioscope 5, or Axioscope 7, Axiocam 203 mono enables effortless multichannel fluorescence imaging at the touch of a button. For enhanced functionality and ease of use, the camera can be combined with ZEISS LabScope imaging software via USB, network and Wi-Fi connection, which provides an intuitive graphical user interface for documenting fluorescence samples. Additionally, you can connect the camera to ZEN software for image acquisition and further analysis or processing.

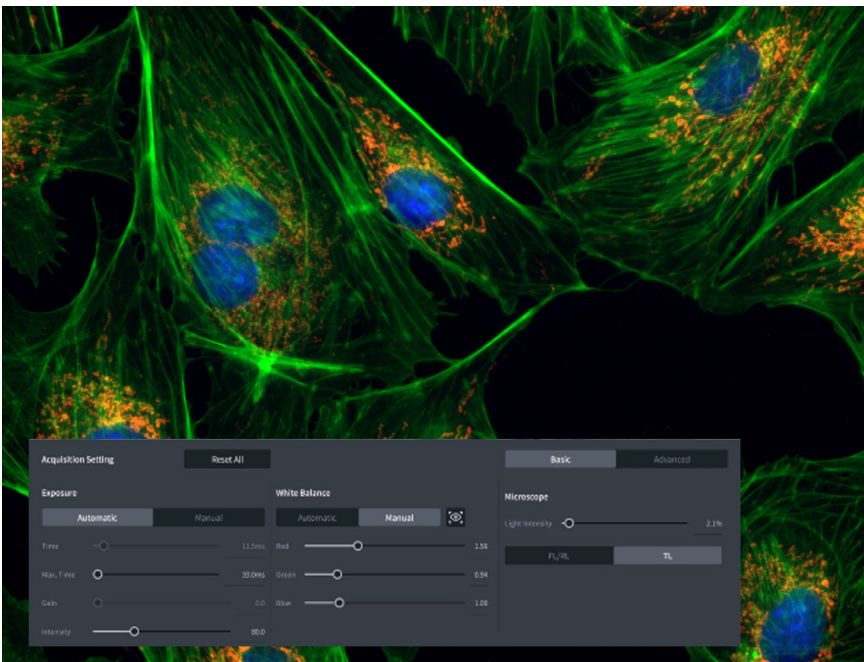
Axiocam 203 mono also includes a TWAIN driver that supports essential camera operations, ensuring secure image transfer to compatible third-party software often utilized in laboratory settings. When used with AxioLab 5, Axioscope 5, or Axioscope 7 microscopes, the camera automatically provides and displays accurate scaling on the live image.



FluoCells in fluorescence contrast, acquired with ZEISS Axiolab 5, objective: A-Plan, 20×

Highlights

- 3 Megapixel CMOS chip sensor with sensor diagonal of 9.2 mm (full sensor) and large pixel size of 3.7 μm for high sensitivity in fluorescence documentation
- Choose between 12 bit or 8 bit digitization
- Store images directly on USB flash drive in stand-alone mode or network via USB connection and Wi-Fi
- Single button multichannel fluorescence acquisition when combined with Axiolab 5, Axioscope 5 or Axioscope 7 stands
- Automatic exposure, white balance and gain adjustment for easy fluorescence image capture
- Connect directly to a monitor by a HDMI cable for imaging with up to 30 fps full HD in stand alone mode.



Operate ZEISS Axiocam 203 mono via the on-screen display (OSD)

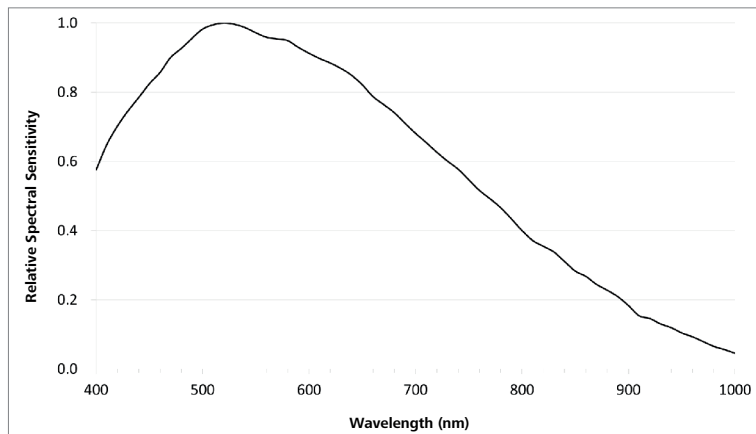
You can operate Axiocam 203 mono via the on-screen display (OSD) without any additional PC oder software required:

- To open the Live View Menu of the OSD, you simply need to move the mouse over the live image on the screen. If you stop to move the mouse, the OSD will close after approx. 15 sec.
- You can aquire images, videos and perform multichannel fluorescence imaging.
- The automatic exposure setting mode ensures a consistent brightness of the image by continuously calculating the correct exposure time based on the current light intensity and strength of the FL signals.
- You can add measurements, markers or text annotations to an image in live view and browse through your files using the integrated filebrowser.

Technical Data and Conformity

Technical Data

Sensor type	CMOS sensor with rolling shutter
Sensor size/Effective sensor area	Diagonal 9.3 mm (1/1.7"), Full Sensor Diagonal 8.2 mm (1/2.1"), Ultra HD and Full HD
Pixel count	3.0 Megapixels: 1984 (H) × 1522 (V) 2.1 Megapixels: 1920 (H) × 1080 (V)
Pixel size	3.7 µm
Digitization	8 bit / pixel or 12 bit / pixel
Exposure Time Range (Integration time)	0.1 ms – 2 s
Gain	1.0x – 22.4x (equivalent 0 dB – 27 dB) adjustable
Frame rate	Maximum live frame rate at configuration: Full sensor (1984 × 1522) @ 1080p (1920 × 1080) HDMI: – HDMI: 30 fps Ethernet: – Ethernet: 30 fps USB 3.0: 30 fps USB 3.0: 30 fps
Cooling system	Passive cooling
Spectral sensitivity	Approx. 350 nm – 850 nm, protection glass (coated)
Interface	1× HDMI for monitor 1× USB 3.0 Type-C for flash drive, Wi-Fi adapter or PC connection 2× USB 2.0 Type-A for mouse and keyboard 1× RJ45 (Ethernet) for LAN connection 1× M8 for power and communication with dedicated stands
Wi-Fi compatibility	Via USB Wi-Fi adapter and router
Power supply	Via M8 interface
Operating system	for ZEN Imaging Software: Windows 10 and 11 x64 and higher for Labscope: Windows 10 and 11 x64 and iOS v15 and higher, Android 12 and higher
Software	On Screen Display (OSD) for stand-alone operation ZEN blue v3.11 and higher (includes ZEN lite/pro/system) ZEN core v3.11 and higher (includes ZEN starter/core) Labscope v4.3 (win, iOS, and Android) and higher
Image enhancement functions	Active denoising, active sharpening
Automatic features	Automatic exposure and gain regulation at Full HD resolution (1080p), fast live image under low light conditions
Order number	426570-9910-000



Relative Spectral Sensitivity of Axiocam 203 mono



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