

Capture microscope images the smart way.



ZEISS Axiocam 212 color

Your Clever, 12 Megapixel Microscope Camera for Smart Digital Documentation

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Seeing beyond

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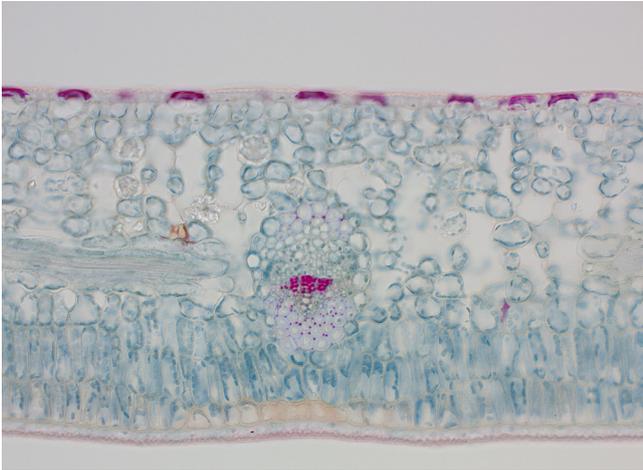
Retina in brightfield, mouse embryo, Azan staining. Acquired with ZEISS Axiolab 5, objective: Plan-Apochromat 40x/0.95 Corr

ZEISS Axiocam 212 color is your smart **12 megapixel color** microscope camera suitable for education, documentation and routine applications. This CMOS camera delivers crisp, detail rich live images with high color fidelity at **full 4k resolution in up to outstanding 30 fps**. Choose between modes of operation:

- In stand-alone mode, you don't need a PC to acquire microscope images. All necessary controls you reach via the on-screen display (OSD) of the microscope camera. The camera automatically adjusts brightness and white balance and offers live image enhancement functions like sharpening, denoising and HDR. Digital documentation of your specimen has never been easier.
- Alternatively, connect the CMOS camera via USB, Ethernet or wirelessly via Wi-Fi dongle to a computer and the imaging software Labscope or ZEN. Since you can connect multiple cameras to the network, Axiocam 212 color is the ideal solution for digital classroom applications and for connected laboratories, too.



Axiocam 212 color comes with a TWAIN driver that provides basic camera functionalities. It enables secure image data transfer to TWAIN-compatible 3rd party software solutions such as those often used in routine laboratories. If you combine Axiocam 212 color with Axiolab 5, Axioscope 5 or Axioscope 7 microscope stands you can experience the full concept of smart microscopy. The camera communicates with the microscope and e.g. extracts the correct scaling information.



*Camellia leaf vascular bundle in brightfield, cross section.
Acquired with ZEISS Axiolab 5, objective: Plan-Apochromat 20x/0.8*

Highlights

- Full 4K resolution in up to outstanding 30 fps
- Live image enhancement functions like sharpening, denoising and HDR
- Use in stand-alone mode, review and save all images on USB flash drive or use the imaging software Labscope or ZEN
- Easy and effortless digital documentation – especially suitable for education, digital classroom and routine documentation in life sciences
- Connections via USB, Ethernet, Wi-fi and HDMI
- Wi-Fi compatible – use Labscope imaging software to control your camera wirelessly
- Stand-alone operation with camera control by intuitive on-screen display (OSD) via mouse and keyboard without a PC

You can operate Axiocam 212 color via the **on-screen display (OSD)** without any additional PC or software required:

- Simply move the mouse over the live image to open the live view menu of the OSD. If you stop to move the mouse, the OSD will close after approx. 15 seconds.
- You can acquire images and record videos as well as multichannel fluorescence images.
- 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.
- You can add measurements, markers or text annotations to an image in live view.

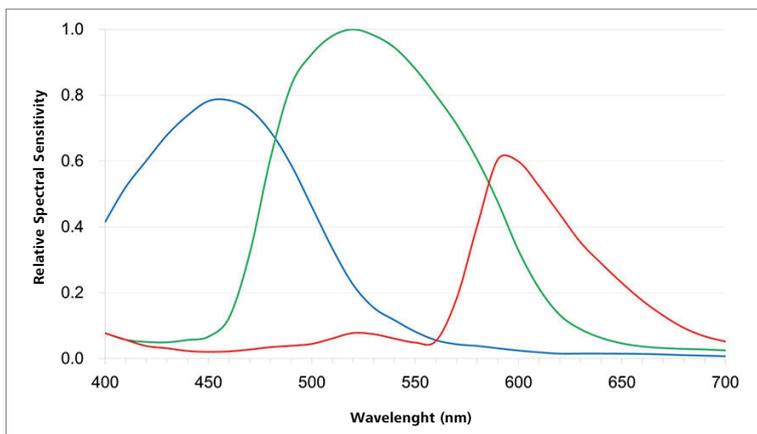


*Operate ZEISS Axiocam 212 color via the **on-screen display (OSD)** without any additional PC*

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	12.3 Megapixels: 4032 (H) × 3044 (V) 8.1 Megapixels: 3840 (H) × 2160 (V) 2.1 Megapixels: 1920 (H) × 1080 (V)		
Pixel size	1.85 µm × 1.85 µm (resolution 4032 × 3044 and 3840 × 2160) 3.70 µm × 3.70 µm (binned, resolution 1920 × 1080)		
Digitization	3 × 8 bit/pixel		
Exposure Time Range (Integration time)	0.1 ms – 1 s		
Gain	1.0x – 22.4x (equivalent 0 dB – 27 dB) adjustable		
Frame rate	Maximum live frame rate at configuration: Full sensor (4032 × 3044) @ 4K (3840 × 2160) @ 1080p (1920 × 1080) HDMI: – HDMI: 30 fps HDMI: 30 fps Ethernet: – Ethernet: 30 fps Ethernet: 30 fps USB 3.0: 15 fps USB 3.0: 20 fps USB 3.0: 30 fps		
Cooling system	Passive cooling		
Spectral sensitivity	Approx. 400 nm – 700 nm, IR filter RGB Bayer color mask		
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 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, auto white balance		
Automatic features	Automatic exposure and gain regulation at Ultra HD resolution (4K), fast live image under low light conditions		
Order number	426570-9901-000		



Spectral Sensitivity of Axiocam 212 color (incl. IR Filter)



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