Easily start into digital classroom.

ZEISS Educam 105

Your 5 Megapixel Microscope Camera for
Connected Networks in Teaching and Education

zeiss.com/educam105

Seeing beyond

ZEISS Educam 105

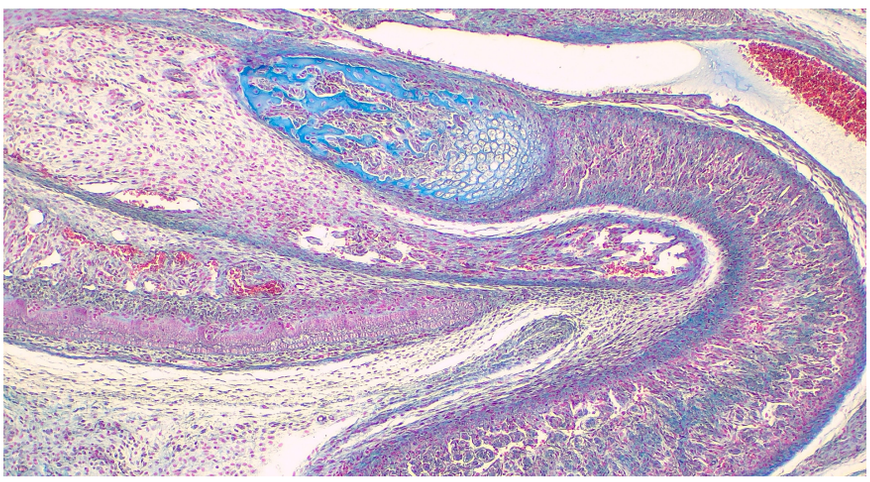
Your 5 Megapixel Microscope Camera for Connected Networks in Teaching and Education

Compact and clever! Decide for the next generation in microscope camera technology and for the benefits of interactivity in teaching and learning in digital classrooms. With enhanced wireless capabilities, connecting to microscopes has never been easier.

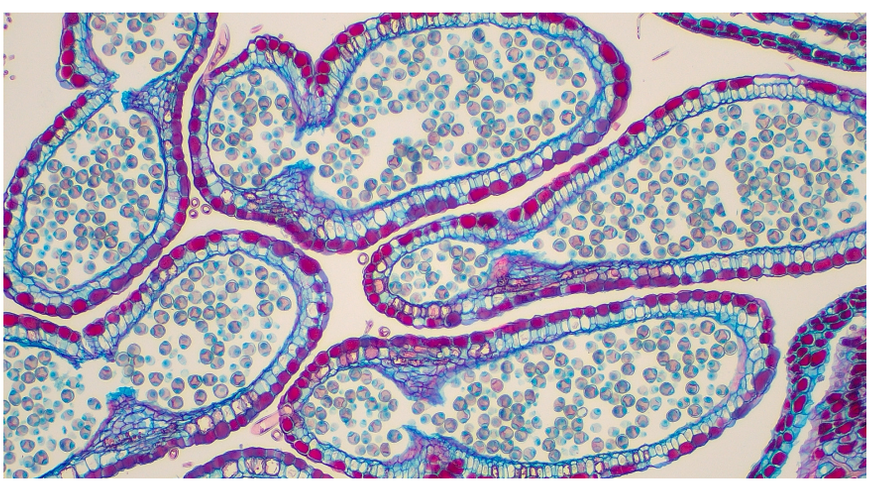
Decide for the next generation in microscope camera technology. This 5-megapixel CMOS camera from ZEISS is designed to be the entry-level solution for education and teaching, without compromising on quality or affordability. With enhanced wireless capabilities, connecting to microscopes has never been easier – simply sync up via Wi-Fi and delve into the microscopic world with ease. Get ready to elevate your educational journey with this entry-level microscope camera.

If you combine Educam 105 with ZEISS microscopes such as Primostar 1, Primostar 3 or Primovert, you can experience all the advantages of digital imaging. Connect all devices to a digital classroom and work with the Labscope software to give your students a new learning experience. With just a few clicks you take pictures and movies, share images on the network and make your first easy measurements and annotations. Getting started with digital imaging can be so easy with Educam 105.

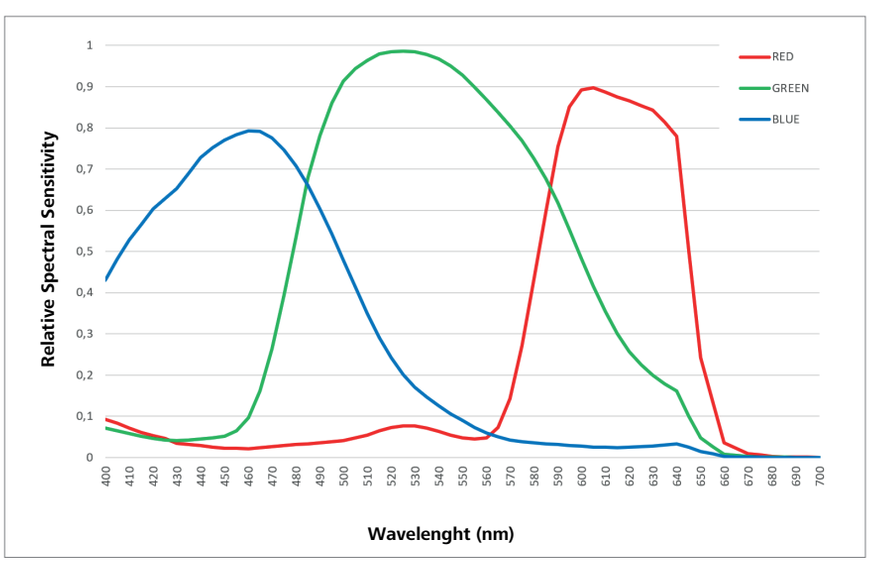
ZEISS Educam 105 is equipped with the most important interfaces: use the USB port to connect a ZEISS Wi-Fi adapter or use LAN for communication and image data transfer. Your software of choice is Labscope. Ready for iOS, Windows or Android. And the best thing about it: this basic camera software is free.



Young Mouse, objective: iPlan Achromat 10×



Corylus avellana, *objective: iPlan Achromat 10×*



Spectral Sensitivity of ZEISS Educam 105 (incl. IR Filter)

Simpler. More intelligent.
More integrated.

- 5 Megapixel CMOS sensor with Rolling Shutter
- Selectable resolution of 5 MP (snap) and 2 MP (live, snap) to meet all needs perfectly
- Save energy with the on/off switch button on camera
- Get an overview with the color coded status LED
- Just in case: reset button to get back to factory settings
- Camera package offers the following accessories:
  - Ethernet cable
  - Power cable and adapter with country-specific plugs
- Software: Labscope 4.3 and above
- As option, use the ZEISS WiFi adapter (426570-9210-000)

Recommended for:

- Teaching and Education
- Digital Classroom

Technical Data and Conformity

Feature	Value
Sensor type	CMOS image sensor color, rolling shutter
Effective sensor pixel count	5.04 Megapixels: 2592 (H) x 1944 (V)
Spectral sensitivity	Approx. 400 nm – 660 nm, IR filter RGB, Bayer color mask
Selectable resolution	5 MP (snap) and 2 MP (live, snap)
Resolution 5 MP	2592 × 1944
Pixel size (physical)	2.0 µm × 2.0 µm
Sensor size	5.2 mm × 3.9 mm, equivalent to 1/2.8" (6.5 mm diagonal)
Resolution 2 MP	1920 × 1080 (Full HD, 1080p)
Pixel size (calculated)	2.67 µm × 2.67 µm
Sensor size (used):	5.1 mm × 2.9 mm (5.9 mm diagonal)
Gain (Signal Amplification)	0 – 27× adjustable
Digitization	3 × 8 bit / pixel
Exposure Time Range (Integration time)	0.03 ms – 1 s
Status-LED for camera	Color coded operation status
Interfaces	USB 3.0 Type-A for Wi-Fi adapter or flash drive
	Ethernet (RJ45) for router connection
	Barrel jack for power supply
Controls buttons	On/Off switch
	Image Capture / Snap button
	Camera factory reset button
Wi-Fi compatibility	Via USB Wi-Fi adapter
Optical interface	C-mount
Size/Weight	Approx. 66 × 66 × 60mm / 280 g
Housing	Blue painted aluminum
Registration	CE, CSA, UKCA
Power supply	DC barrel plug 5.5 × 2.5 mm with union screw
Power consumption	Input: 100 – 240 AC (±10 %), 50/60Hz, 0.5 A
	Output: 12 V DC, 1 A, 12 W
Environmental conditions for storage and operation	+5 °C to + 40 °C, 30 % relative air humidity to 80 % relative air humidity, no condensation, free air circulation required, CAT II, pollution degree 2, altitude <2000 m, indoor use
Environmental conditions for transport in packaging	–40 °C to +70 °C
IP code	IP20
Operating systems:	Windows 10 & 11 (64-bit), iOS 15 or later, Android 12 or later
Supported application software	Labscope v4.3 and higher
Order number	426555-9020-000

Carl Zeiss Microscopy GmbH
07745 Jena, Germany
microscopy@zeiss.com
www.zeiss.com/educam105

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