ZEISS Stemi 305

Your Stereo Microscope with Integrated Illumination & Documentation

Green lacewing
Transmitted light brightfield

Indexable insert, shows tool wear.
Reflected light, ringlight, zoom 0.8×

Stemi 305 is your compact Greenough stereo microscope with a 5:1 zoom – equally at home in the biology classroom, research lab or on the industrial shop floor. Stemi 305 lets you observe samples as they really are: three-dimensional and crisp in contrast – no preparation needed.

Enjoy all the advantages of an easy-to-use microscope with integrated LED illumination for reflected and transmitted light – plus fast, easy-to-use documentation.

Just snap your images with the integrated Wi-Fi camera and share them using Labscope, the iPad imaging app. Or choose the conventional phototube for access to all ZEISS Axiocam cameras and free ZEN lite imaging software. This Greenough microscope will give you crisp 3D impressions, versatile object illumination and easily acquired images to share, whenever you want.

Highlights

- Choose between predefined microscope sets to get the optimal illumination equipment for your applications.
- Easily select and combine up to two reflected light contrasts and transmitted light.
- To cover large object areas use the flexible adjustment of the microscope with tilting arm stand U. The near vertical LED spot provides shadow-free, homogeneous illumination.
- Decide between two options for documentation:
  - Conventional phototube with 50/50 split – use with all ZEISS Axiocam microscope cameras.
  - Integrated Wi-Fi camera and router, to be used with Labscope – the iPad imaging app. Create your own virtual classroom and share your images.

Created for Your Applications

- Observe and identify biological samples in the classroom, and in the lab.
- Investigate the morphology of plant organs in your practical botanical work.
- Study worms, snails, spiders, frogs, crabs, eggs, and larvae for Zoology.
- Examine the fruiting bodies of large fungi to differentiate between edible mushrooms and inedible look-alikes.
- Perform investigations and surgical procedures in your veterinary work.
- Inspect or repair printed circuit boards in electrostatic protected areas thanks antistatic surface resistance.
- Easily detect scatches on metal surfaces using the segmentable ringlight.

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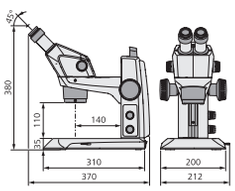
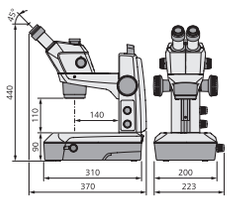
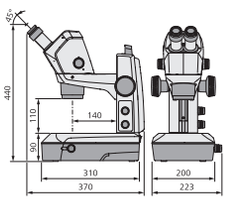


ZEISS Stemi 305



ZEISS Stemi 305 trino



ZEISS Stemi 305 cam

Technical Data	
Operation concept	Stereo microscope, Greenough design with 5:1 zoom range
Zoom bodies	■ Stemi 305 (binocular) ■ Stemi 305 trino (phototube, 50/50 division to the left, integrated c-mount camera adapter 0.5×) ■ Stemi 305 cam (integrated 1.2 Megapixel Wi-Fi camera and router)
Magnification range	8× to 40× (basic version with 10× eyepieces) 4× to 200× (interchangeable optics)
Max. resolution	200 Lp/mm (basic version); 400 Lp/mm (interchangeable optics)
Working distance	110 mm (basic version); 185 mm (interchangeable optics)
Maximum object field	29 mm (basic version); 58 mm (interchangeable optics)
Interface to Stemi mount	76 mm (international)
Interchangeable eyepieces	PL10x/23 Br. foc (included), PL16×/14 Br. foc, W25×/10 foc
Stemi carriers for column 32 mm	Stemi mount with drive, stemi mount tiltable 0–90°
Bench top stands (*= dimensions as stand K)	Stand K, 200 × 310 mm, column 250 mm with drive, travel 145 mm, Stand K MAT*, reflected light LED electronics, ESD feature: antistatic Stand K EDU*, reflected light electronics, flat TL base (brightfield/darkfield) Stand K LAB*, reflected light electronics, mirror TL base (brightfield /darkfield/oblique) Stand N, 440 × 360 mm, column diam. 32 mm/height 350 mm
Boom stands	Stand A; ball bearing double-arm stand SDA; tilting arm stand U
Stages	Gliding stage, ball-and-socket stage, rotating polarization stage
LED illuminators K	Spot K LED, double spot K (selfcarrying), segmentable ringlight K. Controller K for standalone use of Stemi 305 cam, integrated vertical illumination or ringlight K
Direct LED illuminators	VisiLED ringlights, segmentable; double arm LED spot for column 32
Cold light sources	CL4500 LED (CRI 90) with various light guides for highest brightness or special contrasts, e.g. gooseneck, ringlight, line or area light, diffusor
Transmitted light illuminators	Transmitted light mirror accessory for stand N (BF, DF, oblique)
Polarization	Polarization filters for ringlights, spots and transmitted light units

Microscope Sets

Education Set:

- LED spot, zoomable and height adjustable, for oblique and grazing light illumination
- Flat transmitted light base for bright-field and darkfield illumination
- Optional: polarization equipment for spot and transmitted light

Laboratory Set:

- Tiltable mirror base for brightfield, darkfield and oblique light illumination
- Double arm gooseneck, self-carrying, for variable oblique light illumination
- Optional: ergonomic hand rest, polarization equipment for spots and transmitted light

Industrial Set:

- ESD properties: antistatic coating of microscope body and stand
- LED segmentable ring light for shadow free ring illumination and oblique light segment illumination
- Rotating illuminating segments

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