

Stemi 305 and Stemi 508 – your compact stereo microscopes

MICROSCOPY + METROLOGY SERVICES
Suisse made

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Wir machen Qualität sichtbar
Nous rendons la qualité visible
Making quality visible

www.ryfag.ch

Target markets. Jobs-To-Be-Done.

- **Biological Education**
 - Study, determine, dissect. Share.
 - Insects, plants, animals...
- **Routine Work in Bio Labs**
 - Sort, observe, manipulate. Document.
 - Embryos, eggs, larvae ...
- **Industrial Production & Quality Control**
 - Assemble, repair, inspect. Archive.
 - PCBs, micro mechanics, tools...



Stemi 305 series – Easy. Versatile. Imaging integrated.

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Easy. All-in-one device.

- Easy to install
- Easy to operate
- Easy to transport

- Integrated LED illumination
- Integrated PSU
- Integrated Camera (option)

- Pre-configured sets for main applications:
EDU, LAB and MAT microscope sets



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Versatile. Modular illumination.

- Changeable reflected light modules:
ring light, spot, double spot
→ Optimized light for your application
- Near vertical illumination always integrated
- Two transmitted light units:
Flat BF-DF unit in „stand K Edu“
Tilttable mirror unit in „stand K Lab“
- Longlife high brightness LEDs,
maintenance free



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Imaging integrated. Wireless.

- Easy and affordable documentation.

„Stemi 305 cam“: Wifi camera integrated.

- Use of Labscope / Matscope Apps
- Suited for Networks in digital classroom

„Stemi 305 trino“ :

- Photo tube with 50/50 split
- Integrated 0,5x camera adapter, c-mount
- Suited for Axiocams up to 2/3“

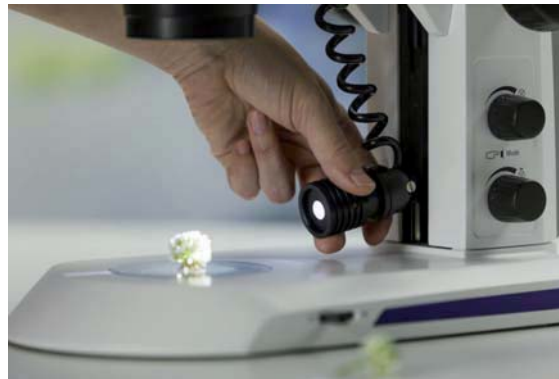


Stemi 305 series – LED illumination to stands K

- Integrated vertical illumination



- Spot illumination



- Double arm gooseneck



- Ring light, segmentable



- Contrast TL base



- Flat TL unit BF/DF



Stemi 305 series – Microscope sets



Stemi 305 Edu microscope set

- Stemi 305 bino incl eyepieces
- Integrated vertical illumination
- Spot illuminator K for BF/DF
- flat transmitted light unit BF/DF

- Price:



Stemi 305 Lab microscope set

- Stemi 305 bino incl eyepieces
- Integrated vertical illumination
- Double arm gooseneck
- tiltable mirror TL base

- Price:



Stemi 305 Mat microscope set

- Stemi 305 ESD incl eyepieces
- Integrated vertical illumination
- Segmentable LED ring light
- ESD functionality, ESD

- Price

Stemi 508 series – Quality optics. Precise mechanics. Flexible.

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Quality optics. Apochromatic.

- Large zoom range 8:1
- Large overview, zoom starts at 0.63x
- Largest field 121 mm (with front optics 0.3x)

- Apochromatic corrected zoom optics.
- Range of Apochromatic front optics
- Image free of color fringes

- High contrast stereo image
- Excellent stray light reduction
- Distortion free for relaxed viewing



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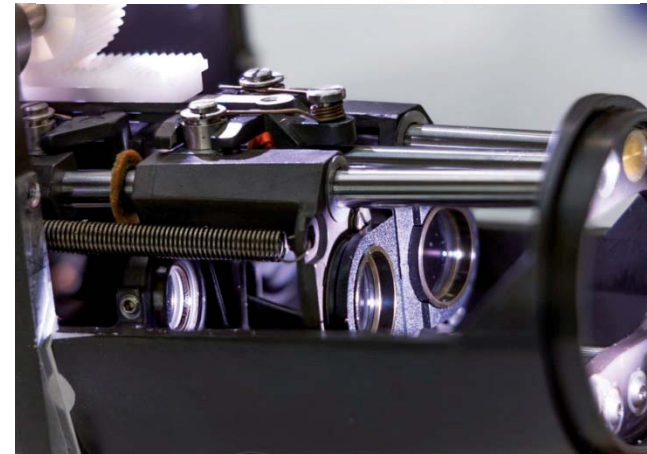


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Precise mechanics. For long-term use.

- Low tolerance mechanical parts enable exact zoom adjustment
- 10 precise zoom clickstops, detachable
- Dust protection glass included
- Durable and reliable mechanics
- Designed for heavy workload
- Accelerated lifetime tests for 10 yrs of use
- Quality as known from Stemi 2000



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Flexible. For your application.

- For easy documentation:
0.5x camera adapter included (60N interface)
- For limited lab space :
Stand K platform (as Stemi 305)
- For higher stand demands:
Large Stand N with stemi carrier
Stable boom stands A and SDA
- For brightest light and special contrasts:
CL4500 LED , various light guides.
True colors due to CRI 90



Stemi 508 series – Large Stands and Fiberoptics

- Large stand N



- Double arm boom stand SDA



- CL 4500 LED with CRI 90



- Vertical illuminator S



Stemi 305 and Stemi 508 Connectivity



Stemi 305 cam:
„WLAN access point“ Mode



Stemi 305 cam:
„Add to existing WLAN“ Mode



**Stemi 508 doc + ERc 5s +
External WLAN router**

Stemi 305 series – Zoom bodies with documentation

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- Stemi 305 cam



- Stemi 305 trino



Stemi 305 series – Accessories

- Range of Front optics 3



- Ergo hand rest



- M8 interface for holding arms



- Controller K for stand alone use



Stemi 305 series – Technical specs

- Stemi 305 binocular
- Stemi 305 trino trinocular (50/50 split),
with 1.2 MP wifi camera
- Stemi 305 cam
- Zoom range 5:1
- Viewing angle 45°
- Large field of vision 23 mm
- Basic system :
 - Magnification range 8x - 40x
 - Object field 5,8 mm - 29 mm
 - Working distance 110 mm
 - Resolution 200 Lp/mm
- Maximum values:
 - Magnification range 4x - 200x
 - Object field → 58 mm
 - Working distance → 185 mm
 - Resolution → 400 Lp/mm



Stemi 508 series – Technical specs

- Stemi 508 binocular
 - Stemi 508 doc trinocular (100% switch),
-
- Large zoom range 8:1
 - Ergo viewing angle 35°
 - Large field of vision 23 mm
-
- Basic system :
 - Magnification range 6.3x - 50x
 - Object field 4,6 mm - 36 mm
 - Working distance 92 mm
 - Resolution 210 Lp/mm
-
- Maximum values:
 - Magnification range 2x - 250x
 - Object field → 121 mm
 - Working distance → 287 mm
 - Resolution → 420 Lp/mm



Stemi 508 series – Components

1 Microscopes

Stemi 305	binocular, incl. eyepieces 10x/23
Stemi 305 trino	trinocular (50/50), incl. eyepieces, 0,5x c-mount adapter with 1.2 MP wifi camera, incl. eyepieces
Stemi 305 cam	binocular incl. eyepieces
Stemi 508	binocular incl. eyepieces
Stemi 508 doc	trinocular (0/100), inkl eyepieces, 0.5x 60N-cam adapter

2 Illumination

LED illuminations K (ring, spot, double spot, flat TL, contrast TL)
Fiberoptic cold light sources and light guides (spots, ring, line light, diffusor S, area light, etc)
Polarization equipment for reflected light and transmitted light

3 Stands

Table top stands K (4 versions: stand K, Stand K Edu, Stand K Lab, stand K Mat)
Large stand N with column 32, boom stands A and SDA, tilting arm stand U

4 Accessories

Eyepieces 10x, 16x, 25x, eyepiece reticles
Achromatic front optics 3 (only 305 series): 0.5x, 0.75x, 1.5x, 2x
Apochromatic front optics 5 (only 508 series): 0.63x, 1.5x, 2x, 0.3x, 0.4x, 0.3-0.5x VFO
adapters for photo and video cameras (only 508 series)
gliding, ball/socket and rotating pol stages

5 Recommended Cameras

AxioCam 105 color	cost effective. Fast due to USB 3
AxioCam ERc 5S, Rev 2	most flexible: USB, HDMI, LAN interfaces, SD card
AxioCam ICc 5	5 MPx CCD chip, 2/3" chip for large field of view

