# Stemi 305 and Stemi 508 – your compact stereo microscopes

MICROSCOPY • METROLOGY SERVICES

Sµisse made

RYF AG Bettlachstrasse 2 CH-2540 Grenchen Tel +41 32 654 21 00 RYF SA Succursale Route de Genève 9c CH-1291 Commugny Tel +41 22 776 82 28 RYF AG (Zürich) Bahnhofplatz 17 CH-8400 Winterthur Tel +41 52 560 22 25



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### **Target markets. Jobs-To-Be-Done.**

- Biological Education
  - Study, determine, disect. 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...





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# 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





## Stemi 305 series – Easy. Versatile. Imaging integrated.

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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"
   Tiltable mirror unit in "stand K Lab"
- Longlife high brightness LEDs, maintenance free





# Stemi 305 series – Easy. Versatile. Imaging integrated.

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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

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Integrated vertical illumination



Spot illumination



• Double arm gooseneck



• Ring light, segmentable



Contrast TL base



Flat TL unit BF/DF



## Stemi 305 series – Microscope sets

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### 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

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

### 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





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

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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

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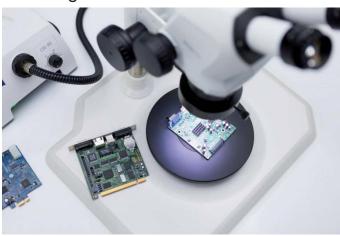
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Large stand N



• CL 4500 LED with CRI 90



Double arm boom stand SDA



Vertical illuminator S



# **Stemi 305 and Stemi 508 Connectivity**

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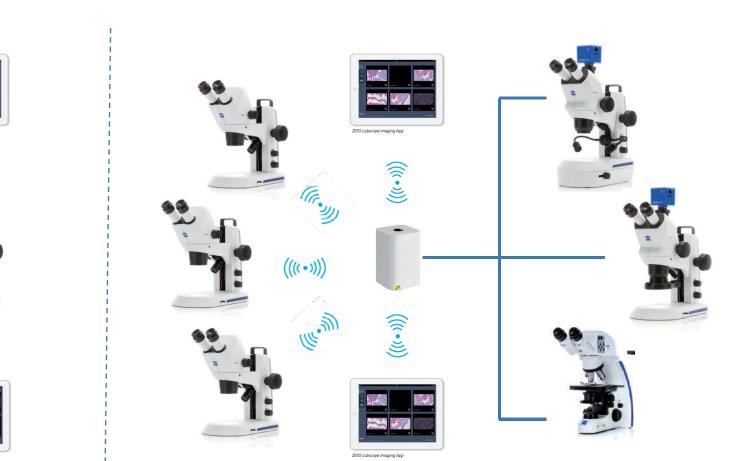
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Stemi 305 cam: "WLAN access point" Mode Stemi 305 cam: "Add to existing WLAN" Mode

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

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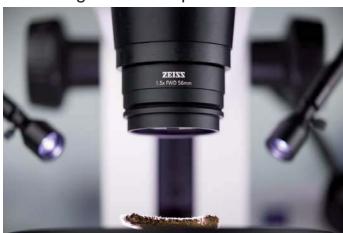
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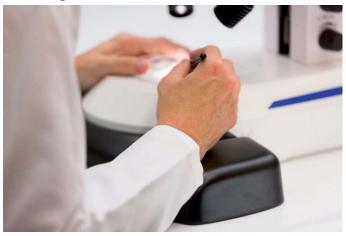
• Range of Front optics 3



• M8 interface for holding arms



Ergo hand rest



Controller K for stand alone use



## Stemi 305 series – Technical specs

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Stemi 305 binocular
Stemi 305 trino trinocular (50/50 split),
Stemi 305 cam with 1.2 MP wifi camera

Zoom range
Viewing angle
Large field of vision
5:1
45°
23 mm

Basic system:
Magnification range
Object field
Working distance
Resolution
8x - 40x
5,8 mm - 29 mm
110 mm
200 Lp/mm

Maximum values:
 Magnification range
 Object field
 Working distance
 Resolution
 4x - 200x
 → 58 mm
 → 185 mm
 → 400 Lp/mm



# Stemi 508 series – Technical specs

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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
Object field
Working distance
Resolution
6.3x - 50x
4,6 mm - 36 mm
92 mm
210 Lp/mm

Maximum values:
 Magnification range
 Object field
 Working distance
 Resolution
 2x - 250x
 → 121 mm
 → 287 mm
 → 420 Lp/mm



## Stemi 508 series – Components

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1 Microscopes

Stemi 305 binocular, incl. eyepieces 10x/23

Stemi 305 trino trinocular (50/50), incl. eyepieces, 0,5x c-mount adapter

Stemi 305 cam with 1.2 MP wifi camera, 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
5 MPx CCD chip, 2/3" chip for large field of view



