Your Microscopes for Education and the Laboratory

Learn Quickly. Work Efficiently.
The moment you’re absolutely clear about what you see.
This is the moment we work for.
Use a microscope to investigate cells and body fluids in your laboratory. You prepare, manipulate, or document human, plant, or animal organisms, often for several hours at a time. You assess the quantity, type, and characteristics of blood cells. You need convenient and efficient solutions. You need to easily operate your microscope and expect excellent optical performance. Does your microscope need to fit into a restricted space?

Enjoy the convenience of ZEISS laboratory microscopes for your daily checks, every day. These ergonomically designed microscopes are so flexible that they adapt to you and your working procedures. They speed up your daily routines. And they have an outstanding price–performance ratio.

For your training courses, you can rely on a sturdy microscope that is easy to use and has a long life. Teaching involves demonstrating procedures and then jointly considering and discussing the results. You can use the iPad imaging app Labscope to document and analyze your samples. You can also connect several microscopes to make a digital classroom and allow your students to simultaneously participate in your observations – on a mobile basis. ZEISS systems can make your courses a real success both for you and your students.

Your Microscopes for Increased Efficiency in the Lab and for More Fun Teaching and Working

Enjoy the convenience for your daily checks, every day. Choose a sturdy microscope that is easy to use and has a long life. Make the best of your tuition and work with ZEISS microscope systems.
Select Your System According to Your Requirements.

Whether you use your microscope for training or for your daily laboratory investigations, your experience and knowledge grow from day to day. Of course, your microscope has always to perform reliably and should be easy to use. ZEISS microscopes have been optimized for use in your medical laboratory or your training department. The systems make it easier for you to efficiently apply your knowledge and methods on a daily basis.

Stereo Microscopes and Zoom Microscopes

With these microscopes, you can observe your large or living samples nondestructively and without needing complex preparation. Zooming smoothly, you can adjust the magnification to your object and analyze its morphology. In the lower overview magnification, you can screen and sort your samples. Then, with higher magnification, you can effortlessly analyze details and prepare and manipulate the samples thanks to a large working distance that enables good access to them.

Upright Microscopes

You can detect even the smallest details of your specimen with upright ZEISS microscopes thanks to their numerous contrasting techniques. Especially in clinical labs, you can rely on proven, reliable technology when assessing complete blood counts, smear tests, or sections. Ranging from robust educational microscopes and ergonomically designed laboratory units up to the most demanding platforms, upright microscopes from ZEISS enrich your daily work.

Inverted Microscopes

With inverted microscopes, you can use the large sample space between the stage and the illumination for your cells in petri dishes, well plates, or culture flasks. You will have enough space for your roller bottles and for micromanipulation. And all that together with contrasting techniques such as brightfield, phase contrast and fluorescence, that you need in your laboratory. Your ZEISS microscope is compact and focuses on the essentials.

Connectivity and Documentation

Document exactly what you see. Fast, easily to access and with brilliant image quality. With the digital microscope cameras from ZEISS, you have the perfect tool for image acquisition and documenting your work. To display and edit your images, choose the iPad imaging app Labscope. Using Labscope, you can connect several microscopes and digitize your classroom and easily take a look into your students’ work.
Stereo Microscopes and Zoom Microscopes

Brilliant 3D Impressions with Good Depth of Field

• Stereo Microscopes and Zoom Microscopes

Stemi 305 integrates everything you need. This compact Greenough stereo microscope comes without additional boxes and cables.

• With the microscope camera already on board, you’re prepared to save your results, share your images and collaborate on projects with friends, colleagues and classmates.

• An LED illumination is already integrated in stands K EDU/LAB/MAT and provides reflected, oblique and transmitted light. Easily select and mix the integrated LED illuminations such as vertical and oblique reflected light, so as transmitted light.

• Stemi 305 comes with two options for documentation.

Choose the conventional phototube and have access to all ZEISS Axiocam microscope cameras.

• With the iPad imaging app Labscope you create your own virtual classroom and share your images.

• Stemi 305 microscope sets for education, lab and industry ensure optimized object illumination for your application.

Created for Your Applications

• You observe and identify biological samples during biology lessons, in the classroom, and in the lab.

• In a teaching environment you connect microscopes and build up your own virtual network.

• In your practical botanical work, you investigate the morphology of plants’ organs. Your zoological studies deal with worms, snails, spiders, frogs, crabs, eggs, and larvae.

• As a fungus expert, you investigate the macroscopic characteristics of the fruiting bodies of large fungi to differentiate between edible mushrooms and inedible look-alikes. The Stemi 305 large working distance allows you to examine whole mushrooms without the need for extensive preparation.

• Are you a veterinarian who carries out investigations and does surgery? Then you will particularly appreciate the shadow-free, homogeneous illumination provided by Stemi 305 as well as the flexible alignment of the microscope with stand U with tilting arm.

Configurer to Your Requirements

Microscopes

• Stemi 305
• Stemi 305 trino with phototube (fixed division 50/50)
• Stemi 305 cam with integrated camera

Stands

• Stand K, stand K MAT, stand K EDU, stand K LAB,
• Boom stands: stand A, stand U with tilting arm

Illumination Techniques

• Reflected light, transmitted light and variable mixed light
• Brightfield, darkfield and oblique light, polarization

Illumination

• Reflected light: spot, double spot, ring light, near vertical, polarization
• Transmitted light: homogeneous brightfield, darkfield, oblique light with relief contrast, polarization

Accessories

• Eyepieces and interchangeable front optics, eyepiece reticles, fiberoptic cold-light sources with various light guides, stages, polarization accessories

Stemi 305 is your compact Greenough stereo microscope with 5:1 zoom. Equally at home in the biology classroom, research lab or on the industrial shop floor. Observe your samples as they are: three-dimensional and crisp in contrast with no preparation required. Then share your images, whenever you want.

Profit from an easy-to-use microscope, where everything is integrated: long-life LED illumination, reflected and transmitted light and documentation. Stemi 305 makes documentation easy and affordable. Simply snap your images with the integrated 1.2 Megapixel Wi-Fi camera and share them using Labscope, the iPad imaging app. Or opt for the conventional phototube to have access to all ZEISS Axiocam cameras and free ZEN lite imaging software.
Stereo Microscopes and Zoom Microscopes

Stereo Microscopes and Zoom Microscopes


• Thanks to their excellent optics, Stemi 508 stereo microscopes provide a crisp and highly resolved threedimensional image, sharp in focus and free of distortions or color fringes.

• Enjoy the 8:1 zoom range and observe even minute structures. Zoom in on details, either continuously or reproducibly by adding click stops. Due to mechanical corrected zoom curves and precise zoom mechanics, the image stays sharp in each zoom position.

• The large field of view lets you overview an object area larger than 35 mm in diameter. The 0.3x supplementary lens even expands this to 123 mm.

• Stemi 508 doc always comes with camera adapter 0.5x to connect ZEISS Axiocam microscope cameras.

• Configure exactly the stereo microscope you require – select from stands, mounting brackets and stages. A large range of fiberoptic or direct LED accessories allow various illumination contrasts in reflected and transmitted light, such as brightfield, darkfield, oblique light and polarization.

Created for Your Applications

• You work in developmental biology with model organisms such as Drosophila, C. Elegans, or Xenopus. You assess, select, and prepare eggs, larvae, and embryos using micromanipulators.

• You are an entomologist who identifies insects, sometimes in the field – for example to map biotopes.

• You look for and classify horse or cattle embryos for subsequent transfer or for deep freezing for breeding purposes. Then you need high-contrast oblique transmitted light.

• Do you study, compare, and document plants from your herbarium? Then, for your larger samples, you will need a boom stand, a large working distance, and a maximum field of view.

With Stemi 508 you observe and document your samples exactly as they are: rich in detail, sharp in focus and free from distortion or color fringes. Stemi 508 is your robust all-rounder for everyday lab work and industrial inspections: accurate, ergonomic – and always easy to use.

Configured to Your Requirements

Microscopes
Stemi 508
Stemi 508 doc with phototube and (100/0 switchover)

Stands
Stand K, stand K MAT, stand K EDU, stand K LAB, stand N
Boom stands: stand A, SDA and stand U with tilting arm

Illumination Techniques
Reflected light, transmitted light and variable mixed light
Brightfield, darkfield and oblique light, polarization

Illumination
Reflected light: light guides for spot, ring, line, vertical, diffuser, and area illumination, direct LED spots and segment ring lights
Transmitted light: brightfield, darkfield, oblique light with relief contrast and polarization option

Accessories
Interchangeable eyepieces and front optics, eyepiece reticles, camera adapter, cold-light sources with various light guides, glding stage, rotating stage, ball-and-socket stage, polarization accessories


• Thanks to their excellent optics, Stemi 508 stereo microscopes provide a crisp and highly resolved threedimensional image, sharp in focus and free of distortions or color fringes.

• Enjoy the 8:1 zoom range and observe even minute structures. Zoom in on details, either continuously or reproducibly by adding click stops. Due to mechanical corrected zoom curves and precise zoom mechanics, the image stays sharp in each zoom position.

• The large field of view lets you overview an object area larger than 35 mm in diameter. The 0.3x supplementary lens even expands this to 123 mm.

• Stemi 508 doc always comes with camera adapter 0.5x to connect ZEISS Axiocam microscope cameras.

• Configure exactly the stereo microscope you require – select from stands, mounting brackets and stages. A large range of fiberoptic or direct LED accessories allow various illumination contrasts in reflected and transmitted light, such as brightfield, darkfield, oblique light and polarization.

• The intermediate LED tubes for fluorescence have been designed for screening tasks. They are high performance, robust, and easy to use. For this, they combine Achromat S lenses with high transmission.

• With the PlanApo S objective lenses, you get a level image with sharp edges and no distortion or color fringing.

• The 300 and 450 stands ensure vibration-free 3D viewing – even at high magnification.

• Choose between the variably adjustable fiber-optic transmitted light 450 unit and the especially low-profile 300 LED unit. Both units offer brightfield, darkfield, oblique-light, and polarization contrast.

• ZEISS cold-light sources provide intense light that is free from infrared to prevent damage to your sample. Long-life LEDs make lamp changes a thing of the past. A wide spectrum of light guides guarantees that your specimens’ structures are optimally emphasized.

• In macroscope mode, you observe your specimen vertically through the right-hand stereo channel. You can produce z-stacks that are free from parallax errors and with increased depth of field.

Created for Your Applications

• You work in embryology and prepare model organisms for more extensive imaging using laser scanning microscopes. Then the 5–45° ergotubes ensure that your working posture is ergonomic.

• You can document the embryonic growth of your zebra fish with the time-lapse module in the ZEISS ZEN Imaging Software.

• You assess the health of plants or seeds, or you identify pathogens and record their incidence. When investigating whole plants, you will benefit for the large focusing range and the large sample space.

• In their biology classes, your students can draw plants and animals using drawing-tube attachment S. You can teach the preparation of samples or monitor it in 3D with the additional viewer attachment S.

• Do you carry out IVF or ICSI treatments in a fertility clinic? Then with SteREO Discovery.V8, you can isolate the eggs before fertilization and then later assess the growing embryos.

• In the forensic department, with the plan apochromatic lens, you can compare fibers and hairs with no color tints.

• With a 16× zoom and a basic aperture of 0.25 (with a 1× objective lens), with Axio Zoom.V16 you will benefit from what is currently the most powerful available stereo or zoom microscope.

• Axio Zoom.V16 offers you a high resolution of 0.3 μm in a large field of 1.6 mm.

• Its patented eZoom allows you to choose between optimized zoom modes for viewing through the eyepiece, for fluorescent applications, or for the documentation of images.

• With eZoom, you get reproducible magnifications with accuracy of over 99%.

• Take advantage of the intelligence of the 450 mot transmitted-light module. When zooming in Best Mode, you get an image that is automatically optimized for contrast and brightness, while taking account of the microscope’s current state.

Created for Your Applications

• Use Axio Zoom.V16 when you need more resolution in larger fields.

• You benefit from the significantly higher aperture if, with image processing software, you manage to add value to the information in the image compared to the classical view through the eyepiece.

• Axio Zoom.V16 offers you high optical performance together with large working distances, which are of particular importance when manipulating your specimen.

• Do you need to investigate model organisms and zoom from a large overview down into the smallest details of organs, tissues, and individual cells? Then Axio Zoom.V16 is your best choice.

Axio Zoom.V16 offers you a successful combination of a large field of view, zoom, and working distance as in a stereo microscope together with the high resolution of a light microscope.

With the Axio Zoom.V16 zoom microscope, thanks to its double-sized basic aperture compared to powerful CMO stereo microscopes, you benefit from a resolution that is 2.5x higher, as well as fluorescence that is 10x brighter in comparable fields of view. As needed, you can quickly and easily switch in the stereoscopic image.

Configured to Your Requirements

**Microscopes**
- Axio Zoom.V16 (manual focus)
- Axio Zoom.V16 (motor-driven focus)

**Illumination Techniques**
- Brightfield, darkfield, relief contrast with reflected, transmitted, and mixed light, polarization, fluorescence

**Illumination**
- Reflected light: fiber-optic cold-light sources with spot, ring, line, vertical, diffuser, area, and coaxial illumination with switchable relief illumination, LED ring lights with a segment function
- Transmitted light: fiber-optic setup 450 with sliding mirror, low-profile LED setup 300

**Accessories**
- Interchangeable lenses (objective lenses, eyepieces), observation and intermediate tubes, manual and motor-driven stands, manual and motor-driven stages, cameras and software modules to document images and for image processing

**Tick (Haemaphysalis longicornis), objective lens PlanApo Z 1x/0.25 WD 60 mm, autofluorescence, EDF**

**Fruit fly larva (Drosophila), objective lens PlanNeoFluar Z 2.3x/0.57 WD 10 mm, multiple fluorescence**

ZEISS Axio Zoom.V16

Your Zoom Microscope for High Resolution in Large Fields

Axio Zoom.V16 offers you a successful combination of a large field of view, zoom, and working distance as in a stereo microscope together with the high resolution of a light microscope.
**Technical Specifications**

Choose the microscope system that best matches your application.

<table>
<thead>
<tr>
<th>Model Type</th>
<th>Stereo 305</th>
<th>Stereo 508</th>
<th>STEREO Discovery V16</th>
<th>Axio Zoom V16</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General</strong></td>
<td><strong>Optical System</strong></td>
<td>Greenough stereo microscope</td>
<td>Greenough stereo microscope</td>
<td>CMO stereo microscope</td>
</tr>
<tr>
<td><strong>Viewing Tubes</strong></td>
<td>Two zoom systems, tilted by the stereo angle, 12°</td>
<td>Two zoom systems, tilted by the stereo angle, 11°</td>
<td>Two zoom systems, arranged in parallel, with a common main objective lens</td>
<td>One-channel zoom system with a high aperture, with a main objective lens</td>
</tr>
<tr>
<td><strong>Eyepieces</strong></td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td><strong>Viewing Angle</strong></td>
<td>45°, 35°</td>
<td>45°, 35°</td>
<td>Free from parallax errors</td>
<td>Will stay in focus when zooming</td>
</tr>
<tr>
<td><strong>Magnification</strong></td>
<td>4–200×</td>
<td>2–250×</td>
<td>3–460×</td>
<td>3.5–644×</td>
</tr>
<tr>
<td><strong>Maximum Field Size</strong></td>
<td>57.6 mm</td>
<td>122 mm</td>
<td>76.7 mm</td>
<td>66 mm</td>
</tr>
<tr>
<td><strong>Microscope Body</strong></td>
<td><strong>Maximum Resolution, Smallest Visible Structure in the Specimen</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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### Stereo Microscopes and Zoom Microscopes

- **Modular Intermediate Tubes:** 40 mm spacing, ergotube, Y tube manual, motor-driven, drawing attachment, additional viewer attachment, intermediate fluorescence tube, coaxial reflected illumination
- **Fluorescence attachment, coaxial reflected illumination:**
  - Fixed tube with camera output, ergotube with camera output and 3D slider
  - Fixed tube with camera output, ergotube with camera output and 3D slider

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### Technical Specifications

<table>
<thead>
<tr>
<th>Model Type</th>
<th>Stereo 305</th>
<th>Stereo 508</th>
<th>STEREO Discovery V16</th>
<th>Axio Zoom V16</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Magnification</strong></td>
<td>8–40x</td>
<td>6.3–50x</td>
<td>10–60x</td>
<td>7–122x</td>
</tr>
<tr>
<td><strong>Maximum Resolution, Smallest Visible Structure in the Specimen</strong></td>
<td>200 l/μm, 2.5 μm</td>
<td>200 l/μm, 2 μm</td>
<td>366 l/μm, 1.5 μm</td>
<td>745 l/μm, 0.7 μm</td>
</tr>
<tr>
<td><strong>Field Size</strong></td>
<td>28.8–5.6 mm</td>
<td>123 mm</td>
<td>23–2.9 mm</td>
<td>33–2 mm</td>
</tr>
</tbody>
</table>

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### Optical System

- **Greenough stereo microscope**
- **CMO stereo microscope**
- **Zoom microscope**

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### Microscope Body

- **Optical Data with Interchangeable Lenses**
- **Optical Data of the Basic System**
- **Microscope Body**

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### Microscope Options

- **Greenough stereo microscope**
- **CMO stereo microscope**
- **Zoom microscope**

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**Please ask your local contact for approval in your country**

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**With 60N interface with accepts changeable camera adapters for 2555 AxioCam cameras, 518 view cameras**

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**Available**

- Optional
- Not available

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**Available**

- Optional
- Not available
Use all Contrast Methods with Reliable, Compact Microscopes
Zeiss Primo Star

Robust, User-friendly, Affordable: Your Educational Microscope

With Primo Star, your students’ practical courses will be a success. This educational microscope was developed for constant use and to be very durable. Primo Star is particularly easy to use. You can prepare an entire classroom in a very short time.

Combine Primo Star and the integrated 5 Megapixel HD streaming camera with the iPad imaging app Labscope from Zeiss, and you can wirelessly connect several microscopes in your classroom. This makes it easier to present your material, thus allowing your students to learn quickly.

Primo Star exploits all of the Zeiss expertise in light microscopy for your demanding conditions in practical work, in the laboratory, and for tuition.

Configure to Your Requirements

- **Microscopes**
  - Primo Star (fixed Köhler)
  - Primo Star (full Köhler)
  - Primo Star (fixed Köhler with LED fluorescence attachment)
  - Primo Star HDcam (integrated HD streaming camera and iPad imaging app Labscope)

- **Contrasting Techniques**
  - Brightfield, darkfield, phase contrast, fluorescence (optional)

- **Illumination**
  - Transmitted light: HAL 3D (halogen), LED, illumination mirror
  - Reflected light: LED fluorescent reflected light

- **Accessories**
  - Stages for left- and right-handed users, camera tubes, objective lenses (HF, Ph, D = 0), handle, indicator lamp, modular illumination, country-specific power supply unit, transport box, rechargeable battery pack, illumination mirror, set of filters (blue, green, yellow)


- Primo Star shows the intensity of the illumination on the stand. This makes it easier for users to check, and you can keep an eye on all of the microscopes in the classroom.
- The perfect equipment for students’ practical exercises:
  - Primo Star as a preconfigured fixed-Köhler variant and with the Plan-ACHROMAT 100x/0.8 objective lens.
  - Make use of the advantages of the camera integrated into the tube and its numerous interfaces. With Labscope, the iPad imaging app from Zeiss, you can connect the microscopes in your classroom into a network.
  - Use the free software ZEN lite and control Axiocam microscope cameras. You can create, manage, and export images and videos, and you can use reporting functions.
  - A swiveling mirror means that you can use your microscope with sunlight, without the need for electricity.
  - In rural areas with an unreliable power supply – or with none at all – you can use a rechargeable battery pack for your Primo Star.

Created for Your Applications

- You examine stained tissue sections using brightfield or fluorescent contrast. You look at unstained specimens with phase contrast. You analyze extremely fine structures such as diatoms using darkfield.
- As a botanist, you examine cross sections of plant stems.
- You examine tissue sections and blood smears from anatomy, pathology, hematology, and zoology to record symptoms.
- You examine cultivated plants for phytopathogenic agents or pests, or you track the development of illnesses and the course of diseases.
- You investigate the morphology of bacteria cells such as Bacillus subtilis, Staphylococcus epidermidis, Micrococcus luteus, and Escherichia coli.
**ZEISS Primo Star iLED**

**Your Fluorescence Microscope to Quickly Detect Tuberculosis**

![Image of microscope with mycobacteria stained purple]

Primo Star iLED is outstanding for its robustness, energy efficiency, and ease of use. This fluorescence microscope is the cost-effective solution in the fight against tuberculosis and other infectious diseases. You can easily and reliably detect *Mycobacterium tuberculosis*, either using fluorescence or brightfield.

Primo Star iLED is the result of a cooperation between ZEISS and the Foundation for Innovative Diagnostics (FIND). This microscope exploits all of the ZEISS expertise in light microscopy for the diagnosis of tuberculosis under extreme conditions. ZEISS is a member of the Stop TB Partnership.

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### Configured to Your Requirements

**Microscopes**
- Primo Star (inclined Köhler with iLED fluorescence attachment)

**Contrasting Techniques**
- Brightfield, LED fluorescence

**Illumination**
- Transmitted light: LED
- Reflected light: LED reflected fluorescent light (455 nm)

**Accessories**
- Objective D=0, eyecups; optional: transport box, rechargeable battery pack, illumination mirror, Axocam microscope cameras

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- It is easy to change between fluorescence and brightfield. You get images with outstanding contrast, especially when you work with samples colored with auramine-rhodamine stain.
- You use the 40x objective lens of your Primo Star iLED and detect *Mycobacterium tuberculosis* up to four times faster than when using brightfield.
- LED fluorescence is safe, energy-efficient, and easy to use. You neither have to wait for lamps to heat up or cool down, nor do you have to replace or adjust them.
- In areas without a power supply, you can use a rechargeable battery pack.
- With the ergonomic eyecups, you can get precise results even without a darkroom.
- If you are a customer from the public health services of those countries most heavily affected by tuberculosis, you can get Primo Star iLED at an especially low price.

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### Created for Your Applications

- You can use Primo Star iLED as a complete solution for LED-based check of tuberculosis using fluorescence contrast. In front of a dark background, mycobacteria light up yellow green.
- You can detect, for example, the pathogens that cause African sleeping sickness in blood smears or in cerebrospinal fluid sediment using fluorescence contrast.
- Malaria pathogens can be detected in brightfield, as this makes the various stages of maturity of the plasmodia visible.

• Axio Lab.A1 was developed and designed together with occupational physicians and TÜV Rheinland. You get an especially ergonomic configuration that is TÜV-certified as checked for ergonomics (“Ergonomie geprüft”).
• You always use this microscope from the best viewing position, so your neck and shoulder muscles stay relaxed. The viewing height of your Axio Lab.A1 can be individually adjusted: you set the tube viewing height and angle to what is suitable for your body.
• LED fluorescence is safe, energy-efficient, and easy to use. You neither have to wait for lamps to heat up or cool down, nor do you have to replace or adjust them.
• You can equip your Axio Lab.A1 with various condensers, such as a five-way Abbe revolving condenser with darkfield as well as Ph1, Ph2, and Ph3.

Created for Your Applications

• With Axio Lab.A1, it is particularly easy for you to count white blood cells in brightfield, as you can reach all of the essential controls with one hand.
• In darkfield, you can recognize uncolored structures at a glance.
• Using polarization contrast, you can detect birefringent crystals, for example when visualizing gout.
• Using fluorescence contrast, you can examine heparinized blood for cytogenetic (chromosome analysis) and molecular cytogenetic investigations.
• In the laboratory, you can analyze body fluids, tissues, and excreta. You can do hematological analyses on the cell morphology of blood and tissue cells and can do hemostasis analyses for bleeding tendency or thrombophilia.
Upright Microscopes

**ZEISS Axio Scope.A1**

Configure Your Microscope as you Wish – Functionally and Cost-effectively

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**Axio Scope.A1** is your flexible all-around microscope. You can configure the system that precisely matches your application by choosing from 23 types of stands and numerous interfaces. You only buy what you need and can add anything else as and when your requirements change. From applications in transmitted light brightfield and investigations in polarized light to multifluorescence, you can cover everything with your Axio Scope.A1. You can investigate the thinnest histological specimens as well as samples that are up to 380 mm thick.

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**Configured to Your Requirements**

**Microscopes**
- Axio Scope.A1

**Contrasting Techniques**
- Transmitted light: brightfield, darkfield, DIC, PlasDIC, simple polarization, phase contrast
- Reflected light: brightfield, darkfield, DIC, C-DIC, simple polarization, fluorescence

**Illumination**
- Transmitted light: LED, 50 W HAL, 100 W HAL
- Reflected light: LED Fl, Colibri.2, HBO 50, HBO 100, HXP, HAL 100, XBO 75

**Accessories**
- Reflector inserts, intermediate pieces, XY stages, ergotubes, camera port, multidiscussion equipment

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- Axio Scope.A1 has a modular interface concept. You can select the matching stand for your application from the 23 configurable variants.
- With the Vario column, you profit from a sample space of up to 380 mm.
- With the additional multidiscussion equipment for Axio Scope.A1, up to 21 people can view the same object at the same time.
- LED fluorescence is safe, energy-efficient, and easy to use. You neither have to wait for lamps to heat up or cool down, nor do you have to replace or adjust them.
- With PlasDIC contrast, you can examine living cells cultivated in petri dishes.

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**Created for Your Applications**

- You can carry out histological or pathohistological analyses of tissue sections in brightfield contrast.
- With polarization contrast, you can analyze foreign bodies and crystals in tissue and body fluids.
- You can examine stained mucosal cells in hematology, urology, and gynecology using brightfield and fluorescence.
- In the cell culture lab, you can work with petri dishes and Axio Scope.A1 with PlasDIC.
**ZEISS Axio Imager 2**

All Contrasting Techniques on a Single Imaging Platform

Axio Imager 2 supports your requirements – from brightfield observations and fluorescence light via polarization up to complex FISH applications. This system platform, with its modular architecture, is aimed at your growing needs. Application-specific components complement the solid fundamental characteristics of the Axio Imager 2 stand variants. See for yourself what the combination of outstanding optics, high resolution, and excellent contrast can do!

### Configured to Your Requirements

**Microscopes**
- Axio Imager.A2 (manual)
- Axio Imager.A2 LED (manual, LED fixed Köhler illumination)
- Axio Imager.D2 (partially motor-driven)
- Axio Imager.M2p (pathology system, partially motor-driven)

**Contrasting Techniques**
- Transmitted light: brightfield, darkfield, DIC, polarization, phase contrast
- Reflected light: brightfield, darkfield, DIC, C-DIC, fluorescence

**Illumination**
- Transmitted light: DL 12 V 100 W HAL, 12 V LED
- Reflected light: 12 V 100 W HBO, 12 V LED, 75 W XBO, VisiLED, microLED, Colibri.2

**Accessories**
- LEDs with push-and-click modules, manual stages for left- and right hand operation, encoded and motorized stages, sample holders, binocular tubes with various viewing angles, camera tubes, multi-discussion equipment

- **Axio Imager 2** impresses with its outstanding optics, perfect contrast and illumination.
- It evenly illuminates your specimens.
- Your Axio Imager 2 is equipped with a light manager for transmitted and reflected light. You benefit from a constant light impression at all magnifications and for all contrasting techniques.
- The stands for Axio Imager 2 family are coded and all details of the image acquisition, such as objective lens and magnification, are saved together with the image.
- Axio Imager.M2p is perfectly tailored for your requirements in the pathology department. Thanks to the encoded nosepiece turret and convenient motorization such as automated parfocal correction, you can work efficiently with a high specimen rate.
- The motorization of Axio Imager 2 allows an ergonomic work-flow and speeds up your work.

**Created for Your Applications**
- **Axio Imager.A2** with LED illumination in connection with Achromat or EC Plan-NEOFLUAR objective lenses is your ideal basic equipment for histology.
- **Axio Imager 2** with polarization contrast is indispensable in showing debris in tissue or in diagnosing Alzheimer’s disease, for example. Depending on the application, you can use fixed or rotating polarizers and analyzers, or even a lambda plate.
- In histology and anatomy, you benefit from excellent resolution, convincing colors in details and overviews, and the ability to quickly and precisely relocate important positions in the specimen. The EC Plan-NEOFLUAR and Plan-APOCHROMAT objective lenses in connection with motorized stages are ideally tailored for this.
- You can visualize parasites, bacteria, or clusters of viruses.
- You identify extrinsical particles.
Upright Microscopes

Technical Specifications
Here you can find the microscope system that best matches your application.

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Zeiss System Primo Star</th>
<th>Zeiss Axio Lab A1 FL-LED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stand</td>
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<td>Upright</td>
</tr>
<tr>
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<td>Infinite IC²S</td>
</tr>
<tr>
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<td>475 + 475 +</td>
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<tr>
<td>Ergotube</td>
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<td>–</td>
</tr>
<tr>
<td>Eyepiece suitable for wearers of glasses</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Field of view in mm</td>
<td>18/20 20/22</td>
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</tr>
<tr>
<td>Integrated carrying handle</td>
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<td>–</td>
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<tr>
<td>Integrated carrying handle</td>
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<td>–</td>
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<tr>
<td>Power supply</td>
<td>External, on the stand</td>
<td>Integrated</td>
</tr>
<tr>
<td>Rechargeable battery pack for mobile use</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Intensity indicator for illumination</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Contrasting Techniques</td>
<td>Transmitted light, brightfield</td>
<td>–</td>
</tr>
<tr>
<td>Darkfield</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Phase contrast</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Differential interference contrast</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Fluorescence</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Documentation</td>
<td>Camera tube</td>
<td>–</td>
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<td>Camcorder</td>
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<tr>
<td>Illumination</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Parti-Köhler</td>
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<td>Integrated LED fluorescence</td>
<td>1 LED 2 LEDs</td>
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<td>External ft. excitation</td>
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<td>–</td>
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<td>Maximum power consumption in W</td>
<td>30 35</td>
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<td>Halogen transmitted light illumination</td>
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<tr>
<td>Plug in mirror</td>
<td>Yes, for fixed Köhler</td>
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<table>
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<tr>
<th>4 LEDs</th>
<th>4/6-channel</th>
<th>6/10-channel</th>
<th>10/100</th>
<th>100</th>
</tr>
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<tbody>
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<td>–</td>
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<td>–</td>
<td>–</td>
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</tr>
</tbody>
</table>

– Available
○ Optional
– Not available
Inverted Microscopes

Living Cells in Focus
Inverted Microscopes

ZEISS Primovert
Examine and Assess your Living Cells – Quickly and Easily

Now you can study the morphology of living cells and evaluate their development with this compact inverted microscope from ZEISS. Primovert is perfectly suited to your cell culture laboratory. It enables fast, efficient investigations of both unstained cells in phase contrast and GFP-labeled cells in fluorescence contrast. It fits straight into your laminar flow cabinet to work directly in a sterile environment. And it brings you a welcome degree of flexibility, too, with its integrated camera and the Labscope imaging app for iPad: observe your cells from outside the sterile working space and evaluate them with colleagues.

Configured to Your Requirements

**Microscopes**
- Primovert
- Primovert photo
- Primovert HDcam
- Primovert iLED

**Contrasting Techniques**
- Brightfield, phase contrast, fluorescence

**Illumination**
- HAL 30, LED

**Accessories**
- Stage insert (glass or metal), holding frame for petri dishes, object guides, LD condensers, phase contrast slides, Plan-ACHROMAT and LD Plan-ACHROMAT objective lenses


- Switch from phase contrast to fluorescence contrast to assess both undyed and GFP-labeled cells.
- The inverted microscope is compact and fits directly in your Laminar Flow Box – you work directly in the sterile environment.
- Your Primovert is immediately ready for use. You reactivate the microscope in stand-by mode automatically after 15 minutes off. This saves energy and increases the life of the light source.
- Primovert HDcam integrates a camera. Use your iPad and the free imaging app Labscope and discuss the image together in the team.
- Snap microscope images, annotate and create reports, and share them easily wirelessly with other.

Created for Your Applications

- With phase contrast, you get high-contrast images of unstained cells. You can analyze the growth, morphology, and condition of living cells at a glance.
- Research the structure of plant cells and tissues, reproduction, growth, metabolic processes, and pathogens.
- You can do sterility tests.
- Examine cells before preparing protein, DNA, or RNA samples.
- Differentiate between types of cells and characterize cell lines.
Inverted Microscopes

ZEISS Axio Vert.A1
Simply Get All Information from Your Cells

Choose from all standard contrasting techniques, including DIC, to investigate your cell cultures. Axio Vert.A1 produces brilliant images to answer your questions.

Axio Vert.A1 is the only system in its class with such a large range of features, compact enough in fact to sit directly beside your incubator. Look into the very essence of your research while keeping your cell culture in its own protected environment.

Configured to Your Requirements

Microscopes
Axio Vert.A1 (transmitted light)
Axio Vert.A1 FL (fluorescence for transmitted light and reflected light)
Axio Vert.A1 FL-LED (fluorescent LED for reflected light, LED fluorescent reflected light)

Contrasting Techniques
Brightfield, phase contrast, PlasDIC, iHMC, DIC, fluorescence

Illumination
Transmitted light: HAL, LED
Reflected light: HBO 50, HBO 100, HXP 120 V, LED modules

Accessories
Binocular camera tubes, binocular ergotubes, intermediate camera tube, manual and motorized stages, LD condensers, objective lenses, object guide, frames for numerous petri-dishes and slides

- With Axio Vert.A1, you can use all of the usual contrast methods, even DIC. With DIC, you can capture the finest structures even of thicker samples.
- Without modifying the stand, you can switch freely between iHMC, PlasDIC and DIC as you investigate your samples.
- With Axio Vert.A1 your samples remain safe in gentle LED light. You profit from homogeneous illumination and freedom to align your sample.
- Axio Vert.A1 has been designed ergonomically. Whether you are sitting or standing, simply use intermediate pieces to work comfortably in an upright position.

Created for Your Applications
- Observe marked living cells in your cell laboratory.
- Determine transfection rates.
- Carry out pronuclear injections working with transgenic animals.
- You are responsible for ICSI, IMSI, and embryonic observations in an IVF clinic.

HeLa cells, two-channel fluorescence
ESI: oocyte with zona pellucida, PlasDIC
Inverted Microscopes

Inverted Microscopes


• The apochromatic fluorescence beam path ensures homogeneous intensity of fluorescence over the entire field of view. Colibri.2 light sources permit a fast LED change for fluorescent applications.

• Combine Axio Observer.A1 with manipulators, and together with PlasDIC or iHMC, you will have the perfect platform for IVF and for your work with stem cells.

• With the DIC contrasting technique, you can achieve the highest detail resolution and improved success rates – for example when assessing sperm.

• Axio Observer.A1 combines all of the IVF contrast methods in a single microscope.

Created for Your Applications

• Observe mark cells using vital stains.

• You carry out series of experiments and need documentation and incubation.

• Compare images from different fluorescence channels and require uncompromisingly brilliant images.

• Carry out pronuclear injections working with transgenic animals.

• You are responsible for ICSI, IMSI, and embryonic observations in an IVF clinic.

ZEISS Axio Observer.A1
Observe. Manipulate. and Analyze.

You observe, analyze, and manipulate living cells. Then Axio Observer is your inverse microscope platform for maximum flexibility. Its open architecture can be cost-effectively extended – from the base stand through to high-speed and laser-scanning microscopy or microdissection dimensions. There are not even any restrictions in adding external components to the system.

Configured to Your Requirements

Microscopes
Axio Observer A1 (manual)

Contrasting Techniques
Brightfield, phase contrast, PlasDIC, iHMC, DIC, fluorescence

Illumination
Transmitted light: halogen, LED
Reflected light: HBO 50, HBO 100, HXP 120 V, Colibri.2

Accessories
Binocular tubes, binocular camera tubes, binocular ergotubes, stages, manual and motor-driven stages, condensers, objective lenses, cameras, software, incubation components


• The apochromatic fluorescence beam path ensures homogeneous intensity of fluorescence over the entire field of view. Colibri.2 light sources permit a fast LED change for fluorescent applications.

• Combine Axio Observer A1 with manipulators, and together with PlasDIC or iHMC, you will have the perfect platform for IVF and for your work with stem cells.

• With the DIC contrasting technique, you can achieve the highest detail resolution and improved success rates – for example when assessing sperm.

• Axio Observer A1 combines all of the IVF contrast methods in a single microscope.

Transgenic mouse embryos in various stages of development, PlasDIC,
magnification: 40×; Sample: courtesy of Dr. Koppen, Dragon-IVF, Dr. Michelmann,
Gynaecological Clinic Göttingen, and Ms. Buhtz, Göttingen University, Germany

HeLa cells, multi-color fluorescence in combination with DIC.
Blue (HOECHST 33342): cell nucleus, red (DsRed): cytoplasm.
Courtesy of H. Wolff, GSF Neuherberg, Germany
Inverted Microscopes

Technical Specifications

Here you can find the microscope system that best matches your application.

<table>
<thead>
<tr>
<th>Feature</th>
<th>Primovert</th>
<th>Axio Vert A1</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Stand</strong></td>
<td>Inverted</td>
<td>Inverted</td>
</tr>
<tr>
<td><strong>Optical system</strong></td>
<td>Infinite</td>
<td>Infinite IC²S</td>
</tr>
<tr>
<td><strong>Minimum viewing height in mm</strong></td>
<td>349</td>
<td>350 IC²S</td>
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<tr>
<td><strong>Irgotube</strong></td>
<td>20</td>
<td>23</td>
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<tr>
<td><strong>Eyepiece suitable for wearers of glasses</strong></td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Field of view in mm</strong></td>
<td>20</td>
<td>23</td>
</tr>
<tr>
<td><strong>Integrated carrying handle</strong></td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Integrated solution to accommodate cable when stored</strong></td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td><strong>Power supply</strong></td>
<td>External</td>
<td>Integrated</td>
</tr>
<tr>
<td><strong>Rechargeable battery pack for mobile use</strong></td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td><strong>Intensity indicator for illumination</strong></td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Contrasting Techniques</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transmitted light, brightfield</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Darkfield</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Phase contrast</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Differential interference contrast</td>
<td>No</td>
<td>No</td>
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<tr>
<td>Fluorescence</td>
<td>Yes</td>
<td>Yes</td>
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<td><strong>Documentation</strong></td>
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<td>Camera tube</td>
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<td><strong>Illumination</strong></td>
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<tr>
<td>Full brighter</td>
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<tr>
<td>Integrated LED fluorescence</td>
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<td>4 LEDs</td>
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<tr>
<td>External FL excitation</td>
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<td>4</td>
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<tr>
<td>Maximum power consumption in W, halogen transmitted light illumination</td>
<td>30</td>
<td>37</td>
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<tr>
<td>LED transmitted light illumination</td>
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<td>Yes</td>
</tr>
<tr>
<td>Plug in mirror</td>
<td>No</td>
<td>No</td>
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* Available
  • Optional
  □ Not available

Axio Observer

<table>
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<tr>
<td><strong>Inverted</strong></td>
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<td><strong>IC²S</strong></td>
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<tr>
<td><strong>Field of view in mm</strong></td>
<td>23</td>
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<tr>
<td><strong>Integrated solution to accommodate cable when stored</strong></td>
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<td>No</td>
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<tr>
<td><strong>Power supply</strong></td>
<td>Integrated</td>
<td></td>
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<tr>
<td><strong>Rechargeable battery pack for mobile use</strong></td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td><strong>Intensity indicator for illumination</strong></td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td><strong>Contrasting Techniques</strong></td>
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<td></td>
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<tr>
<td>Transmitted light, brightfield</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Darkfield</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Phase contrast</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Differential interference contrast</td>
<td>No</td>
<td>No</td>
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<tr>
<td>Fluorescence</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Documentation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Camera tube</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td><strong>Illumination</strong></td>
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<td></td>
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<tr>
<td>Full Köhler</td>
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<tr>
<td>Integrated LED fluorescence</td>
<td>1 LED</td>
<td>4 LEDs</td>
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<tr>
<td>External FL excitation</td>
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<td>4</td>
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<tr>
<td>Maximum power consumption in W, halogen transmitted light illumination</td>
<td>30</td>
<td>37</td>
</tr>
<tr>
<td>LED transmitted light illumination</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Plug in mirror</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

* Axio Vert A1 and Axio Observer: additional iHMC, PlasDIC
Connectivity and Documentation

Network Your Microscopes and Document Your Results
Documenting images has never been easier: you have the power and functionality of PC-based software together with the ease of use of an iPad app.

With Labscope and the Axiocam ERc 5s camera, you can convert your microscope into a wirelessly connected imaging system. Whether in the laboratory, at the university, or in school, with Labscope you can quickly and easily take pictures and videos of your microscopic samples. You can add annotations, create reports, edit images, and save your data within your Windows network — or share any of these, at any time.

**Configured to Your Requirements**

**Microscopes**
- All microscopes with a camera interface
- Primo Star HDcam
- Primovert HDcam
- Stemi 305’s cam

**Camera**
- Axiocam ERc 5s

**Software**
- ZEISS iPad imaging app Labscope (free download in iTunes store)

**Functionality**
- Documentation, image processing, camera control, storage on SD, iPad, PC, server (cloud), report function, social media, measurements/annotations, parallel display of several microscope cameras

- It’s your choice: HDMI, USB, and LAN interfaces and an SD card slot offer you numerous options.
- Use the HDMI interface to directly view on a screen without a PC.
- Simply save images and videos to an SD card at the touch of a button.
- Connect the camera with your Wi-Fi network and enjoy the benefits of the iPad imaging app Labscope.
- You only need one tablet for all of the microscopes in the laboratory, and you are networked to all users.

**Created for Your Applications**
- Document results or dynamic processes for specific microscopes with images and videos directly on your iPad.
- You can make direct comparisons with other images.
- Take measurements, annotate the results, and save them on the file server integrated in the network.
- Load application images onto the iPad for talks and presentations and can use the image processing tools.
- You can easily create an individual report.
- Give a presentation live using your iPad.
- You can network your classroom and move around freely.
Connectivity and Documentation

Be the Network

Your Network is Full of Possibilities

Teaching is the art of passing the knowledge of the few on to the many. For this, you need a good overview over all of those who are learning, a deep insight into the individuals, and the option of networking them all together.

This is exactly what Labscope supports in your digital classroom. You can move freely around the classroom and still see through all of the eyepieces.

Discuss working methods and details with individual students and all of the others can see what is going on. You can allow your students to work independently and to document their results. Check the reports immediately online, or later on your PC. You can put images and videos into the network and allow your students to do mobile work on them with an iPad and record their results. It doesn’t matter whether a small course is to be held quickly on a mobile basis or if a large classroom is to be permanently networked, the digital classroom from ZEISS adapts to your needs.
**ZEISS Axiocam – Microscope Cameras**

Accurate Documentation is an Important Part of Your Daily Analyses

Brilliant images reveal the state of your samples. Select the Axiocam microscope camera best suited to your application.

### Connectivity and Documentation

<table>
<thead>
<tr>
<th>Specification</th>
<th>Axiocam ERc 5s</th>
<th>Axiocam ICc 1</th>
<th>Axiocam ICm 1</th>
<th>Axiocam ICc 5</th>
<th>Axiocam 503 mono</th>
<th>Axiocam 503 color</th>
<th>Axiocam 506 mono</th>
<th>Axiocam 506 color</th>
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<td>6 megapixels</td>
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<td><strong>Effective pixels</strong></td>
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<td>5 megapixels</td>
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<td>1.4 megapixels</td>
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<tr>
<td><strong>Number of pixels</strong></td>
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<td>2560 x 1920</td>
<td>1388 x 1038</td>
<td>1388 x 1038</td>
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<td></td>
<td></td>
</tr>
<tr>
<td><strong>Pixel size</strong></td>
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<td>2.2 μm</td>
<td>4.6 μm</td>
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<td></td>
<td></td>
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<tr>
<td><strong>Sensor size</strong></td>
<td>1/2.5&quot;</td>
<td>1/2.5&quot;</td>
<td>1/2&quot;</td>
<td>1/2&quot;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Maximum frame rate at resolution</strong></td>
<td>20 fps at 800 x 600 (with ZEN Imaging Software)</td>
<td>15 fps at 2560 x 1920</td>
<td>16 fps at 1388 x 1038</td>
<td>16 fps at 1920 x 1080</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>PC interface</strong></td>
<td>SD card slot, 2x USB 2.0</td>
<td>USB 3.0</td>
<td>2x FireWire b</td>
<td>2x FireWire b</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Special features</strong></td>
<td>Also as integrated version for Primo Star HDcam and Primovert HDcam</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

### Recommendation for

- **Documentation and convenient image processing**: Suitable
- **ZEN software**: Suitable
- **LabScope iPad imaging app**: Suitable
- **HDMI**: Suitable
- **Stand-alone mode**: Suitable

---

### Axiocam Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>2x FireWire b</th>
<th>2x USB 2.0</th>
<th>USB 3.0</th>
<th>2x FireWire b</th>
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<tbody>
<tr>
<td><strong>Number of pixels</strong></td>
<td>2560 x 1920</td>
<td>1388 x 1038</td>
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<td>2.2 μm</td>
<td>4.6 μm</td>
<td>4.6 μm</td>
<td>2.2 μm</td>
<td>4.6 μm</td>
</tr>
<tr>
<td><strong>Sensor size</strong></td>
<td>1/2.5&quot;</td>
<td>1/2&quot;</td>
<td>1/2&quot;</td>
<td>1/2&quot;</td>
<td>1/2&quot;</td>
<td>1/2&quot;</td>
<td>1/2&quot;</td>
<td>1/2&quot;</td>
</tr>
<tr>
<td><strong>Maximum frame rate at resolution</strong></td>
<td>20 fps at 800 x 600</td>
<td>15 fps at 2560 x 1920</td>
<td>16 fps at 1388 x 1038</td>
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<td>16 fps at 1388 x 1038</td>
<td>16 fps at 1920 x 1080</td>
</tr>
<tr>
<td><strong>PC interface</strong></td>
<td>SD card slot, 2x USB 2.0</td>
<td>USB 3.0</td>
<td>2x FireWire b</td>
<td>2x FireWire b</td>
<td>SD card slot, 2x USB 2.0</td>
<td>USB 3.0</td>
<td>2x FireWire b</td>
<td>2x FireWire b</td>
</tr>
</tbody>
</table>

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### Additional Features

- **Suitable**: Suitable
- **Partly suitable**: Suitable
With ZEN lite, you profit from the functionality of the full ZEN versions and you can, for instance, ideally modify the user interface design to the predominant lighting conditions. As you wish, you can use ZEN lite in compact mode for a clear overview, or you can use the full view for quick access to all functions. ZEN lite saves your experiments together with the metadata in .czi file format.

- Control your Axiocam microscope cameras.
- Create, manage, and export images and videos.
- Measure lengths and contours interactively.
- Read metadata from .czi image files.
- You can use report functions.
 Connectivity and Documentation

Multidiscussion from ZEISS
Share Your Images with Other Viewers

You can use the classic multidiscussion system for training and consultation situations as well as in the medical world, for example when training students or when jointly assessing difficult specimens. With the multidiscussion unit from ZEISS, depending on the microscope and illumination used, up to 20 people can see the same image in the same orientation as the main viewer. This avoids irritation resulting from rotated or mirrored images. The main viewer and the additional viewers all profit from the homogeneously illuminated field of view.

For specimens stained with different colors, you can smoothly adjust the intensity of the light pointer between white, green, and red. This helps with orientation.

Configured to Your Requirements

Microscopes
Axio Lab.A1: up to two additional viewers
Axio Scope.A1: up to ten additional viewers (HAL 50)
or up to 20 additional viewers (HAL 100)
Axio Imager.A2: up to 20 additional viewers (HAL 100)

Accessories
Central part, tube holder, tubes, eyepieces
Service and Support
for Your ZEISS Microscope System

ZEISS moments are about passion. It is this passion with which we service and optimize your ZEISS microscope and keep it at the latest state of the art, so that your work can systematically lead to success.

Experience Service That Lives Up to Its Name
Your microscope system from ZEISS is one of your most important tools. For over 160 years, the ZEISS brand and our experience have stood for reliable equipment with a long life in the field of microscopy.

You can rely on us to ensure that you can always use your microscope’s full performance. With repair services and spare and replacement parts, our skilled ZEISS service team makes sure that your microscope is always ready for use.

Our experts keep on working even after you have chosen ZEISS, with a wide range of additional services to ensure that you can experience those special moments – those special moments that inspire your work.

Maintenance and Optimization
Your ZEISS Protect service agreement provides all-around security for your microscope system. There are no unexpected operating costs, and the availability of your system is increased. With preventative maintenance as a fundamental part of the service agreements, you benefit from optimized system performance. We’ll work with you to select the service package that best meets your needs, that corresponds to the equipment that you have, and that is tailored to the specific requirements of your applications.

Enhance Your Microscope System
Your ZEISS microscope is designed to be future-proof. Open interfaces allow you to extend your system. You can add your choice of accessories to keep up with the state of the art and thus extend your microscope’s useful life.

We would be happy to help you to find which accessories are available for your microscope that ideally match your application.
How will doctors treat their patients in the future? What kind of role will pictures and videos play in tomorrow’s communications? How much more can semiconductor structures be miniaturized? These and many other questions are what drives us at ZEISS every day.

As a pioneer and one of the world’s leading corporate groups in the field of optical systems and optoelectronics, ZEISS has redefined the limits of imagination from the very beginning.

Medical technology products and solutions from ZEISS continue to set new global standards. Doctors and patients can thus benefit from innovative technologies such as the INTRABEAM™ radiotherapy platform, which provides breast cancer patients with a significantly gentler and shorter course of treatment.

Whether it’s the razor-sharp image on the cinema screen showing *Lord of the Rings*, the most successful film trilogy of all time, or the precise images that binoculars and spotting scopes provide to nature lovers, ZEISS makes fascinating details visible.

When precision is required, ZEISS industrial measurement solutions guarantee the highest quality standards. This makes airplanes safer, cars better, and wind turbines – the future of electrical power – more efficient.

Every second, two people in the world choose ZEISS lenses for their glasses. Relentless drive and farsightedness are what enables Vision Care to develop innovative eyeglasses such as MyoVision™, which reduce the worsening of myopia in children.

This unique passion for top performance is what holds all of our business units together, and this is how ZEISS creates customer value and inspires the world to see things it has never seen before.