

Your Microscopes for Education and the Laboratory

Learn Quickly. Work Efficiently.



We make it visible.

The moment you're absolutely clear about what you see. This is the moment we work for.































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.

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.



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.

Page 8

Page 20

Page 32

Page 42









Brilliant 3D Impressions with Good Depth of Field





ZEISS Stemi 305

Compact Size, Big Impact: Your Stereo Microscope with Integrated Illumination and Documentation



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: threedimensional 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.

Configured 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



Wing of Chrisopidae; transmitted light brightfield

Simpler. More Intelligent. More Integrated.

- 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.



Royal fern, sori and sporangia; spot K LED, oblique light, zoom 2.0×

- 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.

ZEISS Stemi 508

Your Apochromatic Stereo Microscope with 8:1 Zoom for Excellent Image Contrast and Color Accuracy



Stemi 508 is compact, reliable and equipped with optics and mechanics designed for heavy workloads. With the large 36 mm object field you always keep the overview of your sample. The 8:1 zoom then allows to bring details up to 50× magnification. You even have larger samples? Add interchangeable optics and observe an area of up to 122 mm, making Stemi 508 a top perin its class. Stemi 508 offers better ergonomics than any other Greenoughtype stereo microscope: The low viewing angle of 35° lets you keep a relaxed posture even after hours of work.

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, gliding stage, rotating stage, ball-and-socket stage, polarization accessories



Powdery mildew on Norway maple, cleistothecia, Spot K LED, oblique reflected light, zoom 2.0×

Simpler. More Intelligent. More Integrated.

- 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 precize 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.



Tick, segmentable ring light K LED, half circle mode, zoom 1.0x

- 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.
- You look for and identify macroparasites such as ticks, fleas, and lice, as well as their eggs and larvae.

ZEISS SteREO Discovery.V8

Acquire Brilliant, High-contrast, Three-dimensional Images



SteREO Discovery.V8 is equipped with open interfaces and is completely integrated into the ZEISS system. Its modular design and extensive accessories offer you a variety of options to set up your workplace to your exact requirements. You can configure your microscope as a manual microscope for the preparation of specimens, as a powerful tool for fluorescent screening with easy-to-use documentation, or as a largely motorized system with ergonomic operation and imaging options.

The impressive stereoscopic image helps you to better observe, understand, and manipulate your specimens. You get a highresolution, high-contrast, and apochromatically corrected microscopic image – that has sharp edges over the entire field of view and is always in focus when zooming.

With its 8x zoom, you can quickly change from the overview down to the magnified detail. Add in click stops to the continuous zoom and you can easily reproduce ten discrete levels of magnification so that you can correctly scale your images in the ZEISS ZEN Imaging Software.

Configured to Your Requirements

Microscopes

SteREO Discovery.V8 (manual)

Illumination Techniques

Brightfield, darkfield, oblique light, polarization, fluorescence

Illumination

Reflected light: fiber-optic cold-light sources with spot, ring, line, vertical, diffuser, area, and coaxial 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, observation and intermediate tubes, additional viewer attachments, illumination, manual and motordriven stands, cameras, software modules to document images and for image processing



Zebra fish embryos, four hours after fertilization, obliquely illuminated in transmitted light brightfield, magnification: 25× (as seen in the eyepiece)

Simpler. More Intelligent. More Integrated.

- 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.



Housefly mouthparts, obliquely illuminated in transmitted light darkfield, magnification: $80\times$

- 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.

ZEISS Axio Zoom.V16

Your Zoom Microscope for High Resolution in Large Fields



Axio Zoom.V16 offers you a succesful 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 doublesized basic aperture compared to powerful CMO stereo microscopes, you benefit from a resolution that is 2.5× higher, as well as fluorescence that is 10× 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 (Ixodida) from below, objective lens PlanApo Z 1x/0.25 FWD 60 mm, autofluorescence, EDF

Simpler. More Intelligent. More Integrated.

- With a 16x zoom and a basic aperture of 0.25 (with a 1x 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 transmittedlight 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.



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

- 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.

Technical Specifications

Choose the microscope system that best matches your application.

	Stemi 305	Stemi 508	SteREO Discovery.V8	Axio Zoom.V16
General				
Optical system	Greenough stereo microscope	Greenough stereo microscope	CMO stereo microscope	Zoom microscope
Model type	Two zoom systems, tilted by the stereo angle, 12°	Two zoom systems, tilted by the stereo angle, 11°	Two zoom systems, arranged in parallel, with a common main objective lens	One-channel zoom system with a high aperture, with a main objective lens
Stereoscopic image (through eyepieces)	•	•	•	o (ergo phototube Z needed)
Optical Data of the Basic System*				
Magnification	8-40×	6.3–50×	10-80×	7–122×
Maximum resolution, smallest visible structure in the specimen	200 LP/mm, 2.5 μm	200 LP/mm, 2.4 µm	346 LP/mm, 1.5 μm	745 LP/mm, 0.7 μm
Field size	28.8–5.8 mm	123 mm	23–2.9 mm	33–2 mm
Optical Data with Interchangeable Len	ses			
Magnification	4–200×	2–250×	3–460×	3.5–644×
Maximum resolution, smallest visible structure in the specimen with interchangeable lenses	400 LP/mm, 1.25 μm	400 LP/mm, 1.25 μm	796 LP/mm, 0.6 µm	1710 LP/mm, 0.3 µm
Maximum field size	57.6 mm	122 mm	76.7 mm	66 mm
Microscope Body				
Zoom factor	5:1	8:1	8:1	16:1
Low-distortion zoom optics	•	•	•	•
Apochromatically corrected zoom lenses	-	•	•	•
Parfocal zoom: your specimen will stay in focus when zooming	•	•	•	•
Axial mode for vertical observation, free from parallax errors	-	-	0	•
Viewing angle	45°	35°	20°, 35°, ergotubes 5–45°	20°, ergotube 5–45°
Eyepieces	10x/23 (included), 16x/14	10x/23 (included), 16x/16	10×/23, 16×/16	10×/23, 16×/16
Eyepieces (with diopter adjustment, incl. eyecups)	25x/10	25x/10	25x/10	25x/10
Viewing tubes	-	-	Fixed tubes and ergotubes with/without camera output, ergotube with extended eyepiece tube	Fixed tube with camera output ergotube with camera output and 3D slider
Modular intermediate tubes	-	-	40 mm spacing ergotube, Y-tube manual and motor-driven, drawing attachment, additional viewer attachment, intermediate fluorescence tube, coaxial reflected illumination	Fluorescence attachment, coaxial reflected Illumination

Microscope Body Documentation options Stemi 305 trino: phototube Stemi 508 with 50/50 split to the left. with 0/10 Built-in c-mount adapter 0.5x right*. for ZEISS Axiocam cameras. Integrate Stemi 305 cam**: built-in c-mount 1.2 MP Wi-Fi camera, to be ZEISS Axio used with iPad imaging app Labscope. Attachment systems/objective lenses Achromatic front optics 3 Achroma 0.5x, 0.75x, 1.5x, 2.0x 0.3×, 0.4> Apochro . Apo 0.63 Stands Stand K, K EDU, K LAB, K MAT Stand K, Bench stands Stand N. Focusing Manual coarse adjustment Manual column fine drive Stands A and U Stands A Boom stands Stages Gliding / ball / rotating polarization stage • • XY stages _ Illumination Integrated LED illuminations (stands K) Integrated near vertical LED spot ٠ _ 0 0 Spot K, height adjustable, zoomable 0 0 Double spot K, gooseneck 0 0 Segmentable ring light K 0 0 Flat transmitted light stand 0 0 Mirror-based transmitted light stand Fiberoptics 0 0 Cold light sources (LED or halogen) 0 0 Annular ring lights (brightfield or darkfield) 0 Single/dual spots (flexible or gooseneck) 0 0 Diffuse illumination (dome or face light) 0 Linear light (for grazing illumination) 0 0 Vertical illuminator (for recessions) 0 0 _ _ Fluorescence equipment (LED) _ _ Fluorescence equipment (fiberoptic, HXP) _ Coaxial illuminator (for flat reflective objects) _ Mirror-based transmitted light unit 450 _ -Direct LED Segmentable ring lights (BF or DF) 0 0 0 0 LED double spot gooseneck 0 _ Flat transmitted light base (BF, DF, oblique) Motorized transmitted light unit 450 _ -(BF, DF, oblique) Polarizing Equipment 0 0 Pol equipment (for spots or ring lights) 0 Pol equipment (for transmitted light) • Available * with 60N interface with accepts cha for ZEISS Axiocam cameras, SLR or video cameras Optional ** Please ask your local contact for approval in your country - Not available

Stemi 305

Not available

Stemi 508	SteREO Discovery.V8	Axio Zoom.V16
Stemi 508 doc: phototube with 0/100 switch to the right [*] . Integrated: Changeable c-mount adapter 0.5x for ZEISS Axiocam cameras.	Binocular phototubes with 0/100 switch to the right*. Intermediate phototubes with: - 0/100 switch, manual or motorized - 0/100 switch + 50/50 split, manual - 50/50 split with two ports (left/right)*	Binocular phototubes with 0/100 switch and 60N interface*. Two digital phototubes without eyepiece view*: - with integrated 5 MP camera
Achromatic front optics 5 0.3x, 0.4x, 0.3 -0.5x Apochromatic front optics 5 Apo 0.63x, Apo 1.5x, Apo 2.0x	Achromat S 0.3x, 0.5x, 0.63x, 1x, 1.25x, 1.5x Plan S 1x, Plan Apo S 0.63x, 1x, 1.5x, 2.3x, 3.5x mono	Plan-NEOFLUAR Z 1×, 2.3× Apo Z 1.5× Plan Apo Z 0.5×, Plan Z 1×
Stand K, K EDU, K LAB, K MAT Stand N, stand system 300	, Stand systems 300 and 450	Stand systems 300 and 450
Manual coarse adjustment, column 350 with coarse/ fine drive	Manual or motorized coarse/ fine adjustment	Manual or motorized coarse/ fine adjustment
Stands A, SDA, and U	Stands A and SDA	Stands SDA
•	•	•
_	Manual and motorized	Manual and motorized
-	-	-
0	-	-
0	-	-
0	o (with controller K)	o (with controller K)
0	-	-
0		
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
-	0	-
-	0	0
-	0	0
-	0	0
0	0	0
0	0	0
0	0	0
-	-	0
0	0	0



Primo Star

Use all Contrast Methods with Reliable, Compact Microscopes

4 cum Arm





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.

Configured to Your Requirements

Microscopes

Primo Star (fixed Köhler) Primo Star (full Köhler) Primo Star (fixed Köhler with iLED 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 30 (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)



Pig intestine, Masson-Goldner stained, objective lens: A-plan 10×/0.25

Simpler. More Intelligent. More Integrated.

- 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 dry Plan-ACHROMAT 100×/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.



Daisy umbel (Bellis perennis) brightfield, objective lens: Plan-ACHROMAT 10×/0.25

- 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



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.

Configured to Your Requirements

Microscopes

Primo Star (fixed 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, Axiocam microscope cameras



Mycobacterium tuberculosis, Ziehl-Neelsen stain: the mycobacteria stained purple are hard to see in a microscopic image

Simpler. More Intelligent. More Integrated.

- 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 40× 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.



Mycobacterium tuberculosis, auramine-rhodamine stain; Sample: courtesy of Dr. H. Hoffmann of the WHO Supranational Reference Laboratory IML Gauting, Germany

- You can use Primo Star iLED as a complete solution for LEDbased 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.

ZEISS Axio Lab.A1

Safety and TÜV-approved Ergonomics – for Efficient Days in the Lab





Axio Lab.A1 was created for your daily work in the laboratory. This compact microscope always works reliably and cost-effectively, offering the highest performance. You can use all of the common contrasting techniques: brightfield, darkfield, phase contrast, and fluorescence. You can enjoy intuitive imaging with the free software ZEN lite.

A particular bonus for long-term users is the TÜV-certified ergonomic stand. This means that you can see your specimens from a comfortable viewing height and your neck and shoulder muscles will stay relaxed – even when you spend long days in the lab.

Configured to Your Requirements

Microscopes

Axio Lab.A1 (transmitted light) Axio Lab.A1 (transmitted light, fluorescent reflected light) Axio Lab.A1 (TÜV-certified ergonomics)

Contrasting Techniques

Brightfield, darkfield, phase contrast, simple polarization, LED fluorescence

Illumination

Transmitted light: HAL 35 (halogen, integrated), LED transmitted light, LED fluorescent reflected light

Accessories

Push-and-click module with matching fluorescence filter sets, stages for left- and right-hand operation, sample holders, binocular tubes with various viewing angles, camera tubes, multidiscussion equipment, transport case



Gout investigation: urea crystal, polarization contrast

Simpler. More Intelligent. More Integrated.

- 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
 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.
- 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.
- With the multidiscussion equipment, up to three colleagues can see the same image.



Blood smear (human), Wright's stain, objective lens: Achroplan 100×/1.25 oil

- 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.
- In the laboratory, you can analyze body fluids, tissues, and excretions. You can do hematological analyses on the cell morphology of blood and tissue cells and can do hemostasis analyses for bleeding tendency or thrombophilia.

ZEISS Axio Scope.A1

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





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.

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



Bulbus olfactorius (frog), differential interference contrast, objective lens: EC Plan-NEOFLUAR 20×/0.5

Simpler. More Intelligent. More Integrated.

- 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.



Blood vessel, AZAN stain; orange: cytoplasm, red: nucleus, blue: collagen; objective lens: Plan-APOCHROMAT 20×/0.8

- 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 HAL, 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, multidiscussion equipment



HeLa cells, mitotic phase; red: Alexa Fluor 594-DM1-alpha, green: Alexa Fluor 488-Mad2, blue: DAPI, objective lens: EC Plan-NEOFLUAR 100×/1.3 oil, Sample: courtesy of H.Y. Li and Y. Xheng, department of embryology at HHMI and CIW, Maryland, USA

Simpler. More Intelligent. More Integrated.

- 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 ergonomical workflow and speeds up your work.



Histological section; red: MPOX2, blue: nuclear counterstaining, objective lens: EC Epiplan-NEOFLUAR 10×/0.3, Sample: courtesy of A. Schmitt-Gräff, pathology department, Freiburg University, Germany

- Axio Imager.A2 with LED illumination in connection with Achroplan 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.

Technical Specifications

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

ZEISS System	Primo Star	Axio Lab.A1 FL-LED
Stand	Upright	Upright
Optical system	Infinite	Infinite
	TL180*	IC ² S
Minimum viewing height in mm	385 +	434.4 +
Ergotube	-	•
Eyepiece suitable for wearers of glasses	•	•
Field of view in mm	18/20	20/22
Integrated carrying handle	•	•
Integrated solution	•	•
to accommodate cable when stored		
Power supply	External, on the stand	Integrated
Rechargeable battery pack for mobile use	•	-
Intensity indicator for illumination	•	-
Contrasting Techniques		
Transmitted light, brightfield	•	•
Darkfield	•	•
Phase contrast	•	•
Differential interference contrast	-	-
Fluorescence	•	•
Documentation		
Camera tube	•	•
Integrated camera	•	-
Illumination		
Full Köhler	•	•
Integrated LED fluorescence	1 LED	2 LEDs
External FL excitation	-	-
Maximum power consumption in W,	30	35
halogen transmitted light illumination		
LED transmitted light illumination	•	•
Plug-in mirror	Yes, for fixed Köhler	-
Available		
o Optional		
 Not available 		

Axio Scope.A1	Axio Imager 2
Upright	Upright
Infinite	Infinite
IC ² S	IC ² S
475 +	475 +
•	•
•	•
23	23/25
-	-
_	-
Integrated/external	Integrated/external
-	-
-	-
•	•
•	•
•	•
•	•
•	•
•	•
-	-
•	•
4 LEDs	_
4/6 channel	6/10 channel
50/100	100
•	•
_	_





Living Cells in Focus



ZEISS Primovert

Examine and Assess your Living Cells – Quickly and Easily



Now you can study the morphography 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



HeLa cells, phase contrast, objective: LD Plan-ACHROMAT 20x/0.3 Ph2

Simpler. More Intelligent. More Integrated.

- 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 directly at the stage. Primovert switches in walk-away 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.



U2OS cells expressing GFP, fluorescence contrast, objective: Plan-ACHROMAT, 20x/0.4

- 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.

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



HeLa cells, two-channel fluorescence

Simpler. More Intelligent. More Integrated.

- 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.



ICSI: oocyte with zona pellucida, PlasDIC

- 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.

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



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

Simpler. More Intelligent. More Integrated.

- 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.



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

- Observe and 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.

Technical Specifications

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

ZEISS System	Primovert	Axio Vert.A1	
Stand	Inverse	Inverse	
Optical system	Infinite	Infinite	
	TL180*	IC ² S	
Minimum viewing height in mm	349 +		
Ergotube	•	•	
Eyepiece suitable for wearers of glasses	•	•	
Field of view in mm	20	23	
Integrated carrying handle	•	•	
Integrated solution	-	-	
to accommodate cable when stored			
Power supply	External	Integrated	
Rechargeable battery pack for mobile use	-	-	
Intensity indicator for illumination	•	_	
Contrasting Techniques			
Transmitted light, brightfield	•	•	
Darkfield	-	_	
Phase contrast	•	•	
Differential interference contrast	-	•	
Fluorescence	•	•	
Documentation			
Camera tube	•	•	
Integrated camera	•	-	
Illumination			
Full Köhler	-	-	
Integrated LED fluorescence	1 LED	4 LEDs	
External FL excitation	-	4	
Maximum power consumption in W,	30	37	
halogen transmitted light illumination			
LED transmitted light illumination	•	•	
Plug-in mirror	_	-	
Available	* Axio Vert.A1 and Axio Observer:		
o Optional	additional iHMC, PlasDIC		
 Not available 			

Inverse		
Infinite		
IC ² S		
•		
•		
23		
-		
-		
Integrated		
-		
-		
•		
-		
•		
•		
•		
•		
-		
-		
-		
6		
100		
0		
-		



ZEISS 🗢

ল্য

Primo Star 1

121.06

Network Your Microscopes and Document Your Results



Primo Star 1

Primo Star 4





ZEISS Labscope

Simple and Flexible – Your Imaging App for iPad



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 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

Simpler. More Intelligent. More Integrated.

- 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.







- 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.

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.

	CMOS		CCD	
Microscope Camera	Axiocam ERc 5s	Axiocam 105 color	Axiocam ICc 1	Axiocam ICm 1
	AxioCamERC51		AxioCam ICc 1	AxioCam (Cm)
Specification				
Effective pixels	5 megapixels	5 megapixels	1.4 megapixels	1.4 megapixels
Number of pixels	2560 × 1920	2560 × 1920	1388 × 1038	1388 x 1038
Pixel size	2.2 µm	2.2 µm	4.65 µm	4.65 µm
Sensor size	1/2.5"	1/2.5"	1/2"	1/2″
Sensor diagonal	7 mm	7 mm	8 mm	8 mm
Maximum frame rate	20 fps at 800 × 600	15 fps at	16 fps at	16 fps at
at resolution	(with ZEN Imaging Software)	2560 × 1920	1388 × 1038	1920 × 1080
PC interface	SD card slot, 2× USB 2.0	USB 3.0	2x FireWire b	2x FireWire b
Special features	Also as integrated version for Primo Star HDcam and Primovert HDcam			
Recommended for				
Documentation and convenient image processing	••••	••••	••••	••••
ZEN software	•••	••••	••••	••••
Labscope iPad imaging app	••••			
HDMI	••••			
Stand-alone mode	••••			



5 megapixels	2.8 megapixels	2.8 megapixels	6 megapixels	6 megapixels
2452 × 2056	1936 × 1460	1936 × 1460	2752 × 2208	2752 × 2208
3.45 µm	4.54 µm	4.54 µm	4.54 µm	4.54 µm
2/3"	2/3"	2/3"	1"	1"
11 mm	11 mm	11 mm	16 mm	16 mm
15 fps at	38 fps at	38 fps at	19 fps at	19 fps at
1920 × 1080	1936 × 1460	1936 × 1460	2752 × 2208	2752 × 2208
2x FireWire b	USB 3.0	USB 3.0	USB 3.0	USB 3.0
••••	••••	••••	••••	••••
	•••••	••••	•••••	••••
••••				

17.58

ZEISS ZEN lite

Your Software for PC-based Systems



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.



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.





The moment you see something that you have never seen before. That is the moment we work for.

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.











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



We make it visible.

