

ZEISS Primostar 3

Your robust yet compact microscope for digital teaching and routine lab work.



Seeing beyond

Your robust yet compact microscope for digital teaching and routine lab work.

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In the classroom or in the routine lab, you need reliable microscopes that can take a lot of wear and tear. After all, you and your colleagues or students will be working long hours, often in cramped spaces. You need microscopes that will pay back your investment with smooth operation — day-to-day and year in, year out. Primostar 3 packs all of that into its sturdy metal frame. Yet this robust light microscope is also designed for maximum ease of use. For both productive learning and efficient lab work, students and staff alike will be free from the very beginning to focus on the essentials.

Choose from pre-defined packages for teaching or routine lab work and get the precise microscope configuration you need for the tasks at hand. Each microscope comes pre-installed so it's ready to work right out of the box – that's genuine plug in and play performance. And when you want to take your teaching online or connect your labs on a network, it's easier than ever before with Labscope, the free imaging app from ZEISS.

Primostar 3 is your reliable partner in microscopy – today and in years to come.



Whether you prefer a basic fixed-Köhler teaching microscope or a dedicated full-Köhler set-up for your lab, ZEISS Primostar 3 comes in pre-defined packages. Choose between ready-to-go combinations.



Simpler. More Intelligent. More Integrated.

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Go for a sound investment

With ZEISS Primostar 3 you're choosing a robust microscope that's designed and built for daily work in a classroom or routine lab. Primostar 3 is made of solid materials so you can rely on a mechanically-stable and resilient microscope. Even after years of daily, intensive use, its components will still be operating smoothly. That built-in durability is reflected in our offering you the benefit of an extended warranty up to five years. Primostar 3 comes in ready-to-use packages, tailored to your application so you can be sure you will have the optimal configuration. Just unwrap it, plug it in and play!

Tailor your microscope to your tasks

Let your application decide which microscope configuration you choose. The stable design of your full-Köhler version also houses an array of clever features. A 30-watt halogen bulb is interchangeable with an energy-saving LED bulb for stable color temperature and illumination intensity.

Or, you can add on a fluorescence tube and turn your Primostar 3 into an LED fluorescence microscope. Contrasting techniques, suitable objective lenses and ports for microscopic documentation are just as you wish. And after a full day's work in the lab, you'll especially appreciate its userfriendly design: the long stage drive lets you work in a relaxed posture, and the double-slider holder boosts efficiency, too.

Inspire students in your digital classroom

Consider the advantages of having the microscope camera integrated into the tube with a number of digital interface options. Use Labscope, the imaging app from ZEISS, to connect microscopes in your classroom to each other, then share images or videos with your students via HD monitors or projectors. Opt for the software module Labscope Teacher to manage and organize your class. Take advantage of connected microscopes in a digital classroom and gain insights into each and every one through your own iPad or PC. This saves your valuable time for teaching.

Then to take your teaching online, simply connect your own microscope with your PC and share your images with all members on the call.







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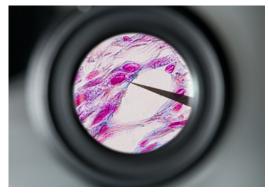
Fixed-Köhler Reliability for Education

Education matters and time for lessons content is always limited. That's why Primostar 3 offers you some very clever details to make your teaching as productive as possible. Fixed-Köhler versions of Primostar 3 come pre-adjusted with a field of view of 20 mm. Selected objective lenses and eyepieces are already in place. Simply plug in your microscope and start your lesson. And here's another plus: long-lasting LED illumination saves energy in your classroom. You want to place your microscope into your storage cabinet? Carry it securely by the handle.



LED light band

Check the status of the microscope's illumination at a glance – even from a distance.



Optional eyepiece pointer

This useful accessory is inserted into the eyepiece, like a reticle, for marking specific object details in the eyepiece image. Retrofittable.





5V USB port

Use the port at the back of the fixed-Köhler stand to connect a power bank or charge your mobile device.



Cable storage

All cables are neatly stored at the microscope.

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ZEISS Primostar 3 in teaching and routine labs

Efficiency in teaching and lab work is key. Full-Köhler versions of Primostar 3 with field of view 22 mm give freedom to teach while using Köhler illumination. In pre-defined packages, a selection of objective lenses and eyepieces are already in place. Benefit from a relaxed posture for day-long work with enlarged stage drive. If you have more specimens in place, you can use

the double slider holder. The light manager offers you the same light intensity level over all magnifications. Additional plus: the ECO mode saves you energy and therefore helps to reduce lab costs. You aim for more comfort for your routine lab work? Then choose Primostar 3 with integrated turret condenser and have brightfield, darkfield and phase contrast techniques at hand.



Condenser turret

Switch easily between different contrasting techniques such as brightfield, phase contrast or darkfield.



Light manager

Activate the light manager when changing lenses and the microscope will remember the precise amount of light set for each lens position.



ECO mode

If activated, the microscope will go into a sleep mode if you don't touch it for 30 minutes.



Lamp housing

Use either a 30-watt halogen bulb or an energy-saving 3W-LED illumination offering stable color temperature and illumination intensity. They are interchangeable.

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Digital Classroom

Bring on the next generation of scientists in your digital classroom. Use the ZEISS Labscope app to connect all your students' microscopes plus WiFi cameras and create a collective learning experience. As a teacher, you can monitor all of their microscopes at a glance. You can see how your students are progressing right in front of your eyes and support them individually where needed. When you see an image of particular relevance on a microscope in the network, share it with the whole group via a projector or monitor. Let this be where a more interactive learning experience opens up your face-to-face teaching.

Primostar 3 with its integrated 8.3 MPx HD WiFi-camera is the package of choice for digital classrooms. This camera offers versatile interfaces such as LAN, HDMI, Ethernet and USB-C 3.0. As an added bonus, integrated powering saves you from a jumble of cables. If you prefer microscopes with external camera adaptation, this package will also suit your purposes.

Both options pave your way to live online teaching and learning. Simply connect your microscope or WiFi-camera to your PC and share what you see with the members on your call.





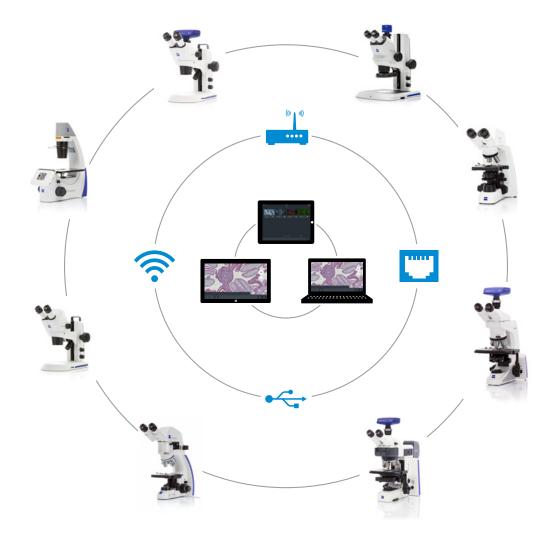
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ZEISS Labscope

Use Labscope, the imaging app from ZEISS, to display all the live images from your connected microscopes. Select any student's image with just one click. Record images and videos with the high resolution of 8.3 megapixels. You can annotate your images and, for example, measure distances. Then share your images, reports and videos with others via email, social media or cloud services. Labscope lets you save your images in the ZEN compatible .czi file format which includes all metadata and a separate annotation layer. Or select the .jpg format to save space. Downloading Labscope is fast and simple. And it's free.







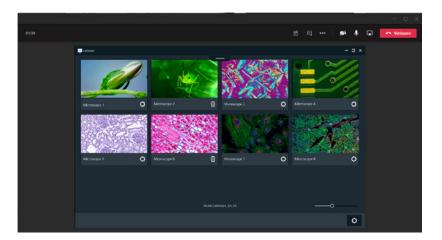
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ZEISS Labscope

Labscope is your easy-to-use imaging app for connected microscopes. Whether for the routine lab, university or school, or even as a hobby – Labscope lets you snap images, record videos and measure your microscopic samples – easier than ever before.



Start your journey in digital and interactive teaching with all students' microscopes right in front of your eyes.



This is the home or hybrid schooling in microscopy education: students connected to the live image of your microscope via Teams.



Labscope Teacher helps you manage your digital classroom.



No artistic skills required to make hand drawings of a microscopy image. This translucent sketch solution supports an inspiring learning style.

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Photo tube

Document your microscope images with the photo tube and a microscope camera.



Swiveling mirror (for fixed-Köhler stands only)

This well-known and popular accessory lets you use your microscope with ambient light or sunlight – no electricity required.



Transport case

Protect and transport your ZEISS Primostar 3 with the dedicated case.



Polarizing contrast

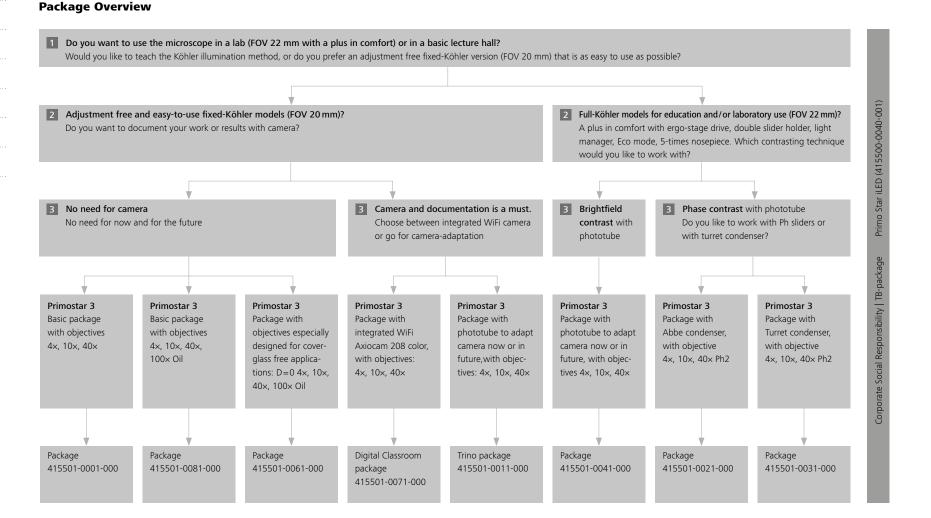
Each stand can be equipped quickly with a polarizer and analyzer for polarizing contrast in transmitted light.



Fluorescence tube

Add on a fluorescence tube and turn your Primostar 3 into an LED fluorescence microscope.

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Order Number	Primostar 3: 415501-0081-000	Primostar 3: 415501-0001-000	Primostar 3: 415501-0011-000	Primostar 3: 415501-0071-000	Primostar 3: 415501-0061-000	Primostar 3: 415501-0041-000	Primostar 3: 415501-0021-000	Primostar 3: 415501-0031-000
Viewing angle	25°	25°	25°	25°	25°	25°	25°	25°
Stage drive right	×	×	×	×	×	×	×	×
FOV 20 mm	×	×	×	×	×			
FOV 22 mm						×	×	×
Fixed-Köhler	×	×	×	×	×			
Full-Köhler						×	×	×
HAL						×	×	×
LED	×	×	×	×	×	×	×	×
Pointer	×	×	×					
Phototube			×			×	×	×
4times nosepiece	×	×	×	×	×			
5times nosepiece						×	×	×
Objectives D = 0					4×, 10×, 40×, 100× Oil			
Objectives ∞/0.17	4×, 10×, 40×, 100× Oil	4x, 10x, 40x	4x, 10x, 40x	4x, 10x, 40x		4x, 10x, 40x	4x, 10x, 40x Ph2	4x, 10x, 40x Ph2
Abbe condensor	×	×	×	×	×	×	×	
Turret condensor								×
Light manager						×	×	×
Eco mode						×	×	×

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Typical applications, typical samples	Task	ZEISS Primostar 3 offers	
listology Iistopathology	Students need to acquire detailed knowledge of microscopic structure, form and function of cells, tissues, and organs.	Fixed-Köhler packages: Primostar 3: 415500-0081-000 with 4x, 10x, 40x, 100x Oil Fixed-Köhler packages with camera option (trinotube): Primostar 3: 415501-0011-000 with 4x, 10x, 40x	
Microscopic Anatomy	Each student learn to sketch histological slides and to identify its characteristics by visual microscopic inspection. This to finally justify diagnosis.		
		Fixed-Köhler package with integrated camera: Primostar 3: 415501-0071-000 with 4×, 10×, 40×	
		Full-Köhler package with camera option (trinotube): Primostar 3: 415501-0041-000 with 4x, 10x, 40x	
Cell Biology	Students need to acquire detailed knowledge of cell structures, cell components, their forms and functionalities.	Full-Köhler package with phase contrast and camera option (trinotube)	
	Basic knowledge in cell biology is an important prerequisite for early detection of uncontrolled cell growth in cancer, for example, and for research into the development and treatment of cancer.	Primostar 3: 415501-0021-000 with 4x, 10x, 40x Ph2 (Ph-slider) Primostar 3: 415501-0031-000 with 4x, 10x, 40x Ph2 (turret condenser)	
ood Microbiology	Healthy nutrition is important for well-being. New food designs with additives such as lactic acid bacteria or yeasts (so-called probiotics) want to make food even healthier.	Primostar 3: 415501-0031-000 with 4x, 10x, 40x Ph2 iPlan-Achromat 100x Oil Ph3: 415501-1645-000 Darkfield slider: 415501-1802-000 Camera Axioxam 208 color: 426570-9000-000 Camera adapter P95-C ² / ₃ " 0.65x: 415501-1810-000	
	The composition of the different food additives is key for the positive effect of the food design. The additives, like bacteria, can be detected under the microscope.		
Medical Microbiology	Bacterias can cause numerous diseases, that is why medical lab technicians need to identify the different bacteria correctly. This is pre-requisite to judge on further treatment of the patient.	Primostar 3: 415501-0041-000 with 4×, 10×, 40× iPlan-Achromat 100× Oil: 415501-1641-000 Camera Axiocam 208 color: 426570-9000-000 Camera adapter (P95-C ¾ 0.65×): 415501-1810-000	
	Gram-staining helps to classify between gram-positive (e.g. Staphylococcus, Streptococcus) and gram-negative bacteria (e.g. Enterobacteriaceae). Their different morphology can be visualized under the microscope.		
Hematology	Blood cells consists of erythrocytes (red blood cells), leukocytes (white blood cells) and plate- lets (thrombocytes). They all have specific forms and functions, e.g. in transporting oxygen, protecting against blood loss and fighting infections.	Full-Köhler package with camera option (trinotube): Primostar 3: 415501-0041-000 with 4x, 10x, 40x Primostar 3: 415501-0061-000 with 10x, 20x, 40x 100x Oil, D=0	
	In stained blood cells under the microscope, the different blood cells and their pathogenic changes can be visualized, blood cells can be counted and also blood differential tests can be made.	Accessories: iPlan-Achromat 100x Oil: 415501-1641-000 Darkfield slider: 415501-1802-000 Camera Axiocam 208 color: 426570-9000-000 Camera adapter (P95-C ² /3" 0.65x): 415501-1810-000	

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Typical applications, typical samples	Task	ZEISS Primostar 3 offers	
Gynecology	In women healthcare, changes in vaginal discharge can indicate infection with yeast, bacteria, parasite <i>Trichomonas vaginalis</i> or other pathological processes.	Full-Köhler package with camera option (trinotube): Primostar 3: 415501-0021-000 with 4x, 10x, 40x Ph2 (Ph-slider)	
	The composition of the vaginal fluid can be examined under a microscope. To identify the different microorganism, phase contrast is the method of choice.	Primostar 3: 415501-0031-000 with 4x, 10x, 40x Ph2 (Turret condenser) Accessories: iPlan-Achromat 100x Oil: 415501-1641-000 iPlan-Achromat 20x: 415501-1622-000 Camera Axiocam 208 color: 426570-9000-000 Camera adapter (P95-C ² / ₅ " 0.65x): 415501-1810-000	
Plantbiology Ecology Agriculture	From plants to food. Plants play a growing role as food for humans and animals, especially in view of the growing population worldwide.	Fixed-Köhler package with integrated camera: Primostar 3: 415500-0071-000 with 4x, 10x, 40x	
	Studying plant morphology, plant physiology, reliable detection and classification of plant pests and diseases (phytopathology), diagnosis of malnutrition and pathogenic organisms as pre-requisite to decide about successful plant treatment.	Full-Köhler package with camera option (trinotube): Primostar 3: 415501-0041-000 with 4x, 10x, 40x Camera Axiocam 208 color: 426570-9000-000 Camera adapter (P95-C ² / ₈ " 0.65x): 415501-1810-000	
Sputum detection	Lab technicians need to identify <i>Mycobacterium tuberculosis</i> as fast as possible. Gold standard is Ziehl-Neelsen staining and brightfield microscopy.	Primostar 3: 415501-0061-000 with 10x, 20x, 40x 100x Oil, D=0	
	In fluorescence excitation, Mycobacterium tuberculosis can be identified up to 4 times faster, with up to 30 % higher sensitivity. Auramine-O-stained bacilli are easy to detect as glowing tubercle in front of a dark background.	Accessory: Fluorescence intermediate tube iLED 455nm: 415501-1820-000	

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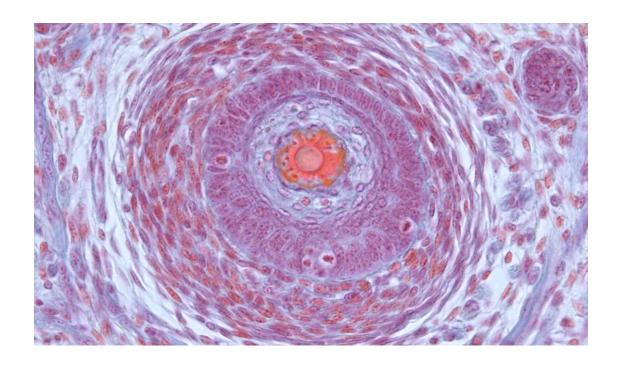
Hair follicle of mouse

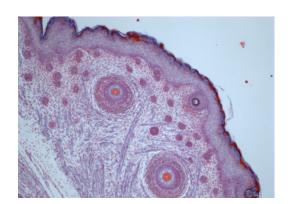
- Brightfield contrast
- Magnification: 4×, 10×, 40×

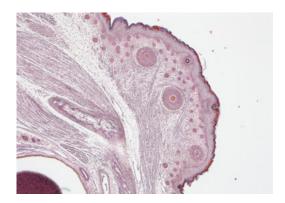
Recommended package:

- Package 415501-0001-000: Primostar 3 Fixed-Köhler
- Package 415501-0011-000: Primostar 3 Fixed-Köhler with camera port
- Package 415501-0041-000: Primostar 3 Full-Köhler with camera port









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Convallaria majalis

- Brightfield & fluorescence contrast
- Magnification: 4×, 10×

Recommended package:

■ Package 415501-0041-000

Primostar 3 Full-Köhler with intermediate

Fluorescence tube (415501-0022-000) for

FITC stained specimen

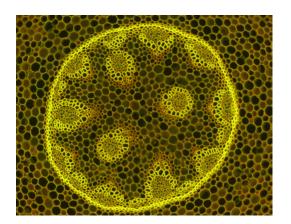




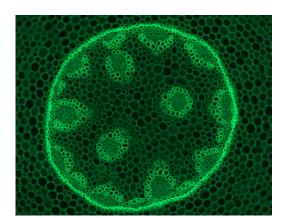
Convallaria in brightfield, magnification: 4×



Convallaria in brightfield, magnification: 10×



Convallaria in fluorescence contrast, blue 09 and blue 38, magnification: 10×



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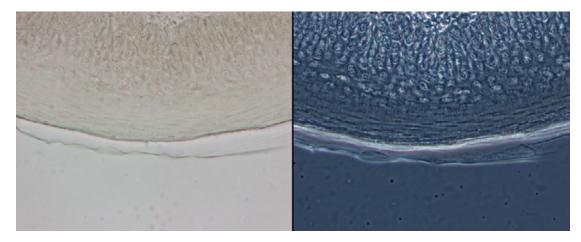
Tongue of rabbit, taste buds

- Brightfield & phase contrast
- Magnification: 40×

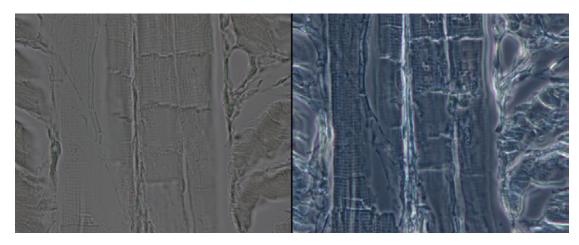
Recommended package:

- Package 415501-0021-000: Primostar 3 Full-Köhler with phase contrast
- Package 415501-0031-000:

 Primostar 3 Full-Köhler with phase contrast and turret condenser



Taste buds in brightfield and phase contrast, magnification: 40×



Taste buds in brightfield and phase contrast, magnification: $40\times$

Your Flexible Choice of Components

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ZEISS Primostar 3 Full-Köhler versions

ZEISS Primostar 3 Fixed-Köhler versions

1 Microscope

- Primostar 3 Fixed-Köhler
 FOV=20, 4 position nosepiece,
 LED, with or without handle
- Primostar 3 Full-Köhler
 FOV=22, 5 position nosepiece,
 LED/HAL, ECO mode,
 Light manager, long stage drive,
 double slider holder

2 Objectives

- iPlan-Achromat 4×/10×/20×/40×/100× Oil
- iPlan-Achromat Ph 10×/20×/40×/100× Oil
- iPlan-Achromat D=0 10×/20×/40×/100× Oil

3 Eyepieces

- Eyepiece 10×/20 Br. Foc.
- Eyepiece 10×/22 Br. Foc.

4 Condensers

- Condenser Abbe 0.9/1.25 with slot (sliders for Ph and/or DF)
- Turret condenser BF/Ph1/Ph2/Ph3/DF

5 Illumination

- Transmitted light halogen 6V 30W (only full-Köhler stands)
- Transmitted light LED 3W 5600K
- Reflected light Fl iLED*

 (455 nm + FS 67 or 470 nm + FS 09)

6 Cameras

- Axiocam 208 color (recommended camera)
- Binocular tube HD 25°/22 w/int cam 8MPx*

7 Software

- Labscope imaging app
- ZEN Imaging Software

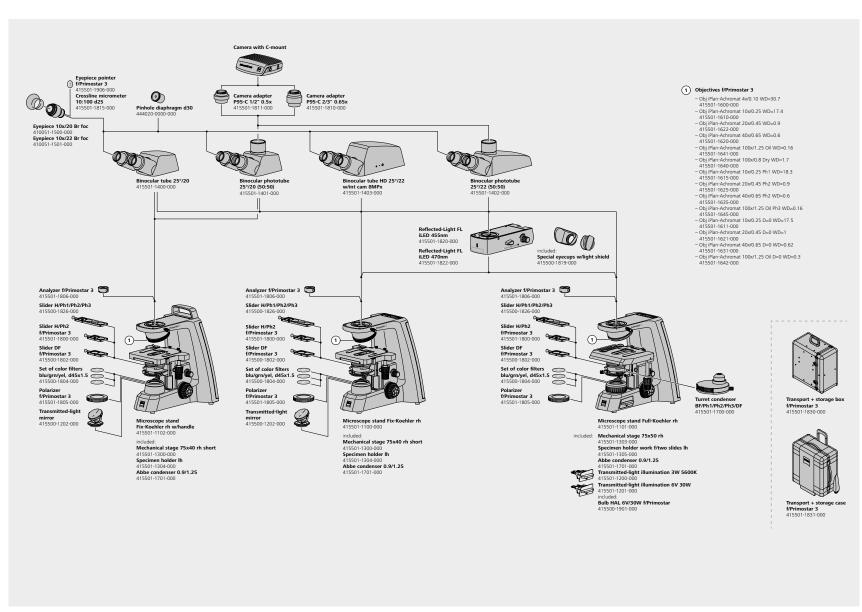
8 Further accessories

- Transmitted light mirror
- Eyepiece pointer
- Crossline micrometer
- Simple polarization accessory
- Transport and storage cases

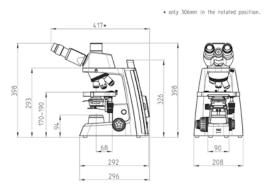
^{*} Only for stands without handle

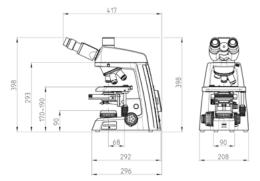
System Overview

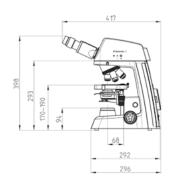
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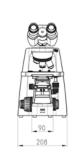


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Dimensions (width \times depth \times height)					
Systems with fixed-Köhler stands	approx. 208 mm × 296 mm × 398 mm	(with reflected light FL iLED intermediate tube approx. $208\mathrm{mm} \times 296\mathrm{mm} \times 453\mathrm{mm}$)			
Systems with full-Köhler stands	approx. 208 mm × 296 mm × 398 mm	(with reflected light FL iLED intermediate tube approx. 208 mm \times 296 mm \times 453 mm)			
Systems with Binocular tube HD 25°/20 w/int cam 8MPx	approx. 208 mm \times 296 mm \times 398 mm	(with reflected light FL iLED intermediate tube approx. 208 mm \times 296 mm \times 453 mm)			
•					

Weight	
Systems with fixed-Köhler stands	approx. 8.5 − 10.5 kg *
Systems with full-Köhler stands	approx. 9.4 – 11.4 kg *
Systems with binocular tube HD 25°/20 w/int cam 8MPx	approx. 9.6 – 12.0 kg *

^{*} Depending on configuration

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Ambient conditions	
Transportation (in packaging):	
Permissible ambient temperature	−40 °C to +70 °C
Storage:	
Permissible ambient temperature	+10 °C to +40 °C
Permissible air humidity (no condensation)	max. 75 % at 35 °C
Operation:	
Permissible ambient temperature	+10 °C to +40 °C
Permissible air humidity (no condensation)	max. 75 % at 35 °C
Atmospheric pressure	800 hPa to 1060 hPa
Installation site	Exclusively inside buildings
Altitude	max. 2000 m
Operating data	
Protection class	II .
Protection type	IP20
Electrical safety	in compliance with DIN EN 61010-1 (IEC 61010-1) including CSA and UL directives
Pollution degree	2
Overvoltage category	
Radio interference suppression	in accordance with EN 61326
Line voltage	100 to 240 V (±10 %) wide-range input power supply,
	i.e. voltage setting of the instrument need not be changed!
Line frequency	50 / 60 Hz
Power consumption	70 VA; secondary voltage of external power supply 12 V
Plug-in power unit output	12 V DC; max. 2.5 A
Microscope 12 V / 6 V DC	adjustable from 1.5 V to 6 V
LED class of complete device	3B

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Stand with specimen stage and focusing device	Fixed-Köhler stand	Full-Köhler stand
Coarse focusing drive	45 mm/rev.	45 mm/rev.
Fine focusing drive	0.5 mm/rev.	0.5 mm/rev.
Total stage lift	15 mm	15 mm
Specimen stage	Mechanical rackless stage	Mechanical rackless stage
Dimensions (width x depth)	140 mm × 135 mm	185 mm × 135 mm
Stage travel (X × Y)	75 mm × 40 mm	75 mm × 50 mm
Coaxial drive	short, right	long, right
Vernier scales	readable from right	readable from left
Specimen holder	with spring clip left	with spring clip left, for two slides
Condensers	Fixed-Köhler stand	Full-Köhler stand
Abbe condenser 0.9/1.25	for objective 4× to 100×	for objective 4x to 100x
Turret condenser BF/Ph1/Ph2/Ph3/DF	for objective 4x to 100x	for objective 4x to 100x
Light sources	Fixed-Köhler stand	Full-Köhler stand
Halogen lamp	- -	HAL 6 V/30 W (changeable)
Adjustability	-	1.5 V to 6V DC
Color temperature	-	2,800 K (at 6V)
Luminous flux	-	280 lm
Average service life	-	1,000 h
Luminous area	-	1.5 mm × 3 mm
LED white light illumination	white light LED 3 W 5,600 K (fixed)	white light LED 3 W 5,600 K (changeable)
Peak wavelength	440 nm	440 nm
6.1.1.00	20 mm	22 mm
Homogeneous field illumination		
Analogous brightness adjustment	approx. 15 to 100 %	approx. 15 to 100 %

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Tubes					
Binocular (Photo)tubes	Binocular tube 25°/20	Binocular phototube 25°/20 (50:50)	Binocular phototube 25°/22 (50:50)		
Maximum field-of-view number	20	20	22		
Interpupillary distance	adjustable from 48 mm to 75 mm	adjustable from 48 mm to 75 mm	adjustable from 48 mm to 75 mm		
Viewing height	370 mm to 410 mm	370 mm to 410 mm	370 mm to 410 mm		
Viewing port, tube factor	1×	1×	1×		
Photo/video port, tube factor	-	1×	1×		
Photo/video port, mount	-	60 mm	60 mm		
Invariable splitting ratio	-	50 % vis and 50 % doc	50 % vis and 50 % doc		

	es	

Binocular tube with integrated camera	Binocular tube HD 25°/20 w/int cam 8MPx
Maximum field-of-view number	22
Interpupillary distance	adjustable from 48 mm to 75 mm
Tube angle	25°
Viewing height	370 mm to 410 mm
Viewing port, tube factor	1x
Integrated HD-CMOS camera	

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Sensor type	Sony CMOS image sensor color, Rolling Shutter
Sensor size	Image diagonal 8.1 mm, equivalent to 1/2.1" (7.1 mm × 4.0 mm)
Pixel count	3840 (H) \times 2160 (V) = 8.3 MP, Ultra HD (4K)
Pixel size	1.85 μm × 1.85 μm
Bit depth	3 × 8 bit/pixel
Exposure range	0.06 ms up to 1 s
Gain	$1 \times -22 \times$ adjustable
Frame rate	HDMI: 30 fps
	Ethernet: 30 fps
	USB 3.0: up to 30 fps
Cooling system	Passive cooling
Spectral sensitivity	Approx. 400 nm – 700 nm, IR filter
	RGB Bayer color mask
Interface	HDMI, USB 3.0 Type C, Ethernet, Micro-D
Wi-Fi compatibility	Via USB Wi-Fi adapter and router
Power supply	External power supply provided, 9 W, compatibility to international sockets available
Operating system	for ZEN Imaging Software: Windows 10 x64 Prof./Ultimate and higher
	for Labscope: Windows 7/10 x64 Prof./Ultimate and iOS v11 and higher
Software	On Screen Display (OSD) for stand alone
	Labscope v2.9 (win), v2.8.3 (iOS) and higher
	ZEN (blue edition) v3.0 and higher
	TWAIN driver
Image enhancement functions	Active denoising, active sharpening, HDR
Automatic features	Automatic exposure and gain regulation at Ultra HD resolution (4K), auto white balance, fast live image under low light conditions





Count on Service in the True Sense of the Word

- > In Brief
- > The Advantages
- > The Applications
- > The System
- Technology and Details
- > Service

Because the ZEISS microscope system is one of your most important tools, we make sure it is always ready to perform. What's more, we'll see to it that you are employing all the options that get the best from your microscope. You can choose from a range of service products, each delivered by highly qualified ZEISS specialists who will support you long beyond the purchase of your system. Our aim is to enable you to experience those special moments that inspire your work.

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Attain maximum uptime with your microscope. A ZEISS Protect Service Agreement lets you budget for operating costs, all the while reducing costly downtime and achieving the best results through the improved performance of your system. Choose from service agreements designed to give you a range of options and control levels. We'll work with you to select the service program that addresses your system needs and usage requirements, in line with your organization's standard practices.

Our service on-demand also brings you distinct advantages. ZEISS service staff will analyze issues at hand and resolve them – whether using remote maintenance software or working on site.

Enhance Your Microscope System.

Your ZEISS microscope system is designed for a variety of updates: open interfaces allow you to maintain a high technological level at all times. As a result you'll work more efficiently now, while extending the productive lifetime of your microscope as new update possibilities come on stream.







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