New perspectives for your research



ZEISS Axio Observer

Your open and flexible inverted microscope platform with AI assisted experiment startup



Seeing beyond

zeiss.com/axio-observer

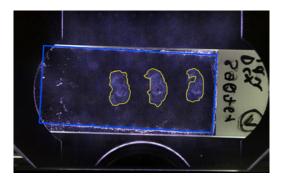
Your open and flexible inverted microscope platform

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In life sciences research you come up against new challenges every day – challenges that call for reproducible data from a whole range of samples in a variety of conditions. That's why you want a flexible microscope system that can be tailored to your needs, offering you lots of interfaces and extensions.

Axio Observer is your stable inverse platform for demanding multimodal imaging of living and fixed specimens. Featuring the AI Sample Finder for optimal user guidance and efficient operation, Axio Observer makes sample placement easier than ever and reduces the time to your experiments significantly. The platform uses the latest generation of LED illumination for gentle imaging and creates the optimal environment for a whole range of samples to deliver reliable, reproducible data. You can combine Axio Observer with a wealth of technologies and refine it to support your experiments precisely, choosing from a broad portfolio of options.



The Al Sample Finder identifies your sample carrier and detects sample areas automatically. Sample courtesy of M. Schmidt, Institute of Anatomy, Medical Faculty Carl Gustav Carus, TU Dresden, Germany.



Simpler. More Intelligent. More Integrated.

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Flexibility for your research

Life sciences research is a dynamic environment in which your imaging requirements are always changing. As your needs grow, Axio Observer stays with you step by step. It offers an abundance of interfaces for technologies ranging from widefield transmitted light to convenient 3D sectioning with Apotome 3, and sensitive superresolution imaging with Elyra 7 or LSM 980 and Airyscan 2. Choose the optimal incubation equipment and enjoy easy sample access for precise micromanipulation. A great variety of integrated options makes your Axio Observer both versatile now and entirely future proof.

Guidance for your workflows

You will be amazed how easy imaging becomes when the Al Sample Finder automatically detects the sample carrier, adjusts the focus, and finds your sample region. Even with low-contrast samples, you will quickly obtain an overview image to access relevant regions with just a click. Reduce the time to image from minutes to just seconds and start your experiment right away. Let Smart Setup and the Focus Strategy Wizard guide you through the experimental setup for easy and intuitive selection of the imaging modalities for your applications.

Using ZEN Connect, acquired images can be easily combined with electron microscopy data and other modalities.

Efficiency for your experiments

Expect a remarkable increase in efficiency with the automation functions of Axio Observer. Use fast switchable LEDs or go for powerful and economic white-light sources in combination with the fast filter wheel for highest spectral flexibility and speed. Select the ideal camera from the dedicated ZEISS Axiocam portfolio or from third-party suppliers: You will always get the image quality and speed your applications require. With Definite Focus 3, focus drift during complicated experiments is a thing of the past. Whether keeping your sample in focus for long-term imaging or adapting your objective to your sample, it's all automatic with this highly organized system.







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Al Sample Finder: Automated sample identification for efficient imaging

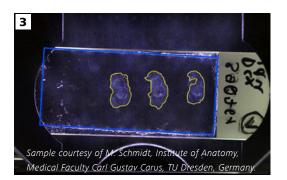
Microscopes are becoming increasingly automated. For sample placement, however, microscope parts such as the condenser arm often have to be moved manually. Focus adjustment and identification of the relevant areas on the sample carrier require additional manual steps.

The AI Sample Finder automates this sequence, eliminating time-consuming manual adjustments and reducing the time to image from minutes to just seconds.

You can access all sample areas directly which allows you starting your experiment faster than ever. The AI Sample Finder greatly improves productivity as you can easily image only those regions containing sample not overlooking potentially important areas.



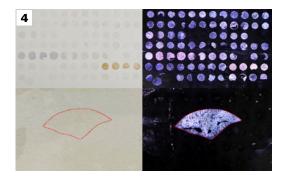
After you placed the sample on the loading position, the AI Sample Finder automatically moves it to the objective.



■ Intelligent routines automatically identify your sample carrier, regardless if you use a petri dish, a chamber slide, or a multiwell plate. Carrier properties are automatically transferred to the software, eliminating manual settings.



 Without the need of manual sample positioning or focusing, an overview image for fast and convenient navigation is taken within seconds.
 Composite darkfield illumination creates a highcontrast image even for very low-contrast samples.

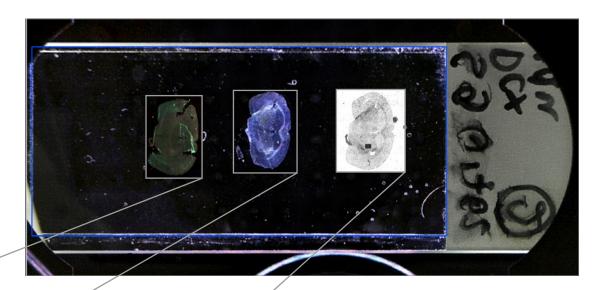


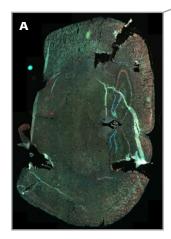
Your samples are reliably identified. Deep Learning algorithms precisely detect even unusual sample regions. You can navigate and access all sample areas directly which allows you starting your experiment faster than ever.

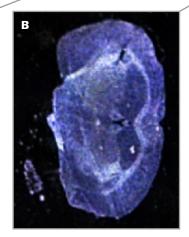
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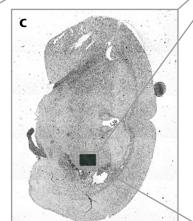
See your entire sample for simple and fast navigation – with the AI Sample Finder

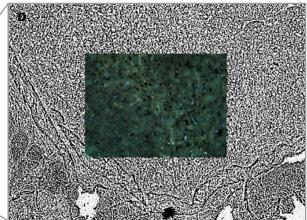
In science you never do an experiment only once. Statistics and controls are important to gain confidence and to verify conclusions. For interpretation of your results it's important to know additional information like the surrounding environment. A good overview image is the foundation for a detailed analysis. The AI Sample Finder enables you to see your entire sample with unmatched speed and ease of use. With ZEN Connect you can visualize to your data in a higher context combining different imaging modalities like electron and light microscopy.











The overview image provided by the Al Sample Finder is ideally suited for navigation and orientation. You can use additional imaging modalities like fluorescence (A) to overlay the Darkfield Composite Contrast image (B) of the Al Sample Finder. Other methods like the Coherence Contrast (C) or a combination of fluorescence and Coherence Contrast (D) are possible, too. Forget about assignment issues after image acquisition. With the Al Sample Finder you always know in which sample region your experiment was conducted and how the surrounding environment looked like.

Sample courtesy of M. Schmidt, Institute of Anatomy, Medical Faculty Carl Gustav Carus, TU Dresden, Germany.

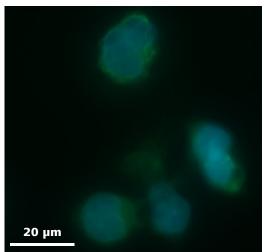
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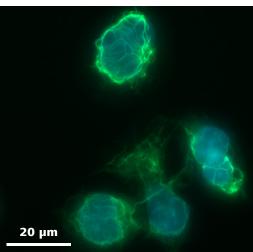
Get better images – with Autocorr objectives

It takes the very best objectives with a high numerical aperture to image subcellular structures. But the wide opening angle of these objectives makes them especially susceptible to spherical aberrations. This physical effect is caused by the different refractive indices and interfaces in both the optical system and the sample. With the introduction of Autocorr, your Axio Observer now supports a new generation of objectives.

With Autocorr you adjust the optics of your microscope to your sample, with a simple slider in ZEN imaging software. Expect crisp contrast even deep inside in your specimen. And with greatly improved fluorescence detection, you will get better data while less excitation intensity will improve the viability of you samples.







SK8 K18 mouse cells. Vimentin stained with Alexa 488 (green), nuclei stained with DAPI (blue). Left image without correction of cover slip thickness, right with applied correction.

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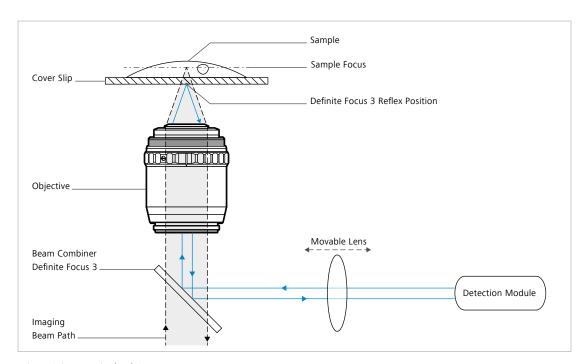
Keep a sharp eye on your goals – with Definite Focus 3

Acquiring time-lapse data from living samples can be tricky. Changing conditions such as room temperature influence the microscope as well as the sample carrier and can cause focus drift.

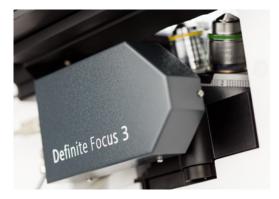
Definite Focus 3 compensates for this drift and keeps your samples in focus. With higher accuracy and precision even your most challenging multi-day, multi-position time-lapse experiments will yield sharp and high contrast images.

Here's how it works: an infrared LED is projected through a grid onto the bottom of the sample carrier. Any change in the focal position of the sample will be indicated by a change of the grid image on the carrier bottom. An integrated

camera monitors the shift while the focus drive of the stand moves to compensate for the drift in real-time. Using ZEN imaging software, simply choose a focus strategy and set up your experiment: all compensation happens automatically in the background, without interfering with your acquisition.



Schematic beam path of Definite Focus 3.



Definite Focus 3 is integrated into the nosepiece of your Axio Observer 7.

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Efficient LED light sources for gentle fluorescence imaging

Your tasks in Life Sciences often require specific fluorescent labels. These labels need to be excited by exactly the right wavelength or even multiple wavelengths. Depending on the type of your experiments you also need stable and robust illumination to obtain reproducible data. LEDs convert electrical power into light more efficiently than other light sources. In comparison, they consume approximately 80 % less energy and do so over extremely long lifetimes. You will never again have to change a metal halide-, Xenon or Mercury-arc lamp. This saves you both money and time and protects the environment, too.

Depending on the model organism or cell line you are investigating, you will face many possible spectral combinations. That calls for high spectral flexibility in the fluorescence beam path.

To observe fast processes in living samples, you need a system that can alter the imaging conditions rapidly.

Axio Observer uses advanced Virtual Filter technology: a dual filter wheel for emission filters and dichroics that enables flexible combinations of wavelengths. Combine it with any white light

source and the fast excitation filter wheel or use the unique multicolor Colibri LED light source to get all the benefits of high efficiency filters, full spectral flexibility, high excitation intensity and extremely fast switching times.



Xylis LED light source allows you to get a high and reproducible light output without warm-up times over the entire life span.



Virtual Filters allow a wealth of excitation and emission combinations for fluorescence imaging.



Excitation filter wheel for high speed multicolor imaging.

Expand Your Possibilities

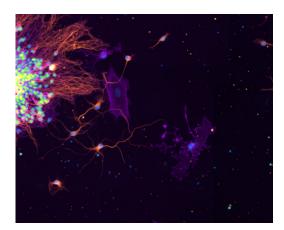
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Use fast, gentle and reproducible LED illumination – with Colibri

Fluorescence microscopy calls for a light source that produces just the right wavelength and enough intensity to excite the fluorescent dyes and proteins in your samples. That makes Colibri 5 and Colibri 7 with their fast LED illumination system the perfect choice for all your fluorescence imaging. Narrow-band LED excitation reduces cross-stimulation while increasing the contrast and SNR of your images. The LEDs are ideal for gentle live cell imaging: they only emit light within a narrow part of the spectrum and have no unwanted, cell-damaging UV leakage. Colibri is fully

integrated into ZEN imaging software, giving you the benefit of extremely fast switching times. Using a calibration diode, Colibri automatically measures and calibrates the light output of the diodes, resulting in reproducible excitation intensities over its entire life span. The LEDs can be turned on and off in microseconds with precise control of excitation intensities to protect your sample. This makes your imaging fast, and saves lamp live, as they are switched off instantly, whenever acquisition is paused.

Your Colibri light source can house LEDs with a broad variety of wavelengths and intensities. Colibri 7 gives you seven individually adjustable excitation wavelengths. With Colibri 5, you can use up to four different LEDs for fluorescence excitation of your sample. You always get enough excitation power to shorten exposure times and to speed up your image acquisition, if necessary. Choose the ideal configuration to exactly match your applications and budget.

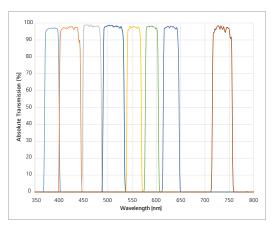


Primary cultures of rodent hippocampal neurons, stained for microtubules (orange), actin (purple) and nuclei (blue-green).

Courtesy of A. Patil, Drexel University College of Medicine, USA



Colibri 7 mounted to stand for full intensity – adjustment free and without an aging light guide.



Colibri allows you to specifically excite fluorophores over the entire spectral range from UV to far red.

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Open Application Development (OAD) is your interface to the ZEN imaging software

- Use Python scripts to customize and automate your workflows.
- Integrate external image analysis applications into your workflows.
- Exchange image data with external programs like ImageJ, Fiji, MATLAB, KNIME or Python.
- Use feedback functions for smarter and dynamic experiments
- Get more reliable data in less time. It's your choice.



OAD enables the analysis of data acquired with ZEN imaging software by other programs like ImageJ. Transfer your results back to ZEN for further analysis and display.

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As your needs grow, you can always expand your Axio Observer. The flexible platform concept provides numerous defined and well documented interfaces. Upgrade new accessories from a broad portfolio of ZEISS solutions or third party offerings.



Choose the right objectives for your application from a broad portfolio of lenses.



Use Duolink and ZEN imaging software to perform high speed imaging with two spectrally separated channels simultaneously.



Select a microscope camera with the sensitivity, resolution and imaging speed you need.



Expand your system with a range of complementary 3D imaging methods.



Combine your Axio Observer with stable incubation options for long-term live cell imaging.

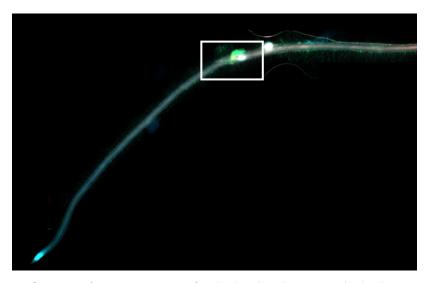
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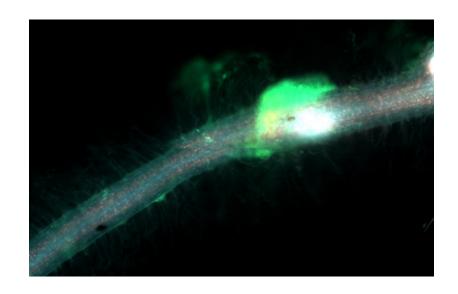
Typical Applications	Task	ZEISS Axio Observer offers
Label-free live cell cultures	Evaluate and document cell culture status	 PlasDIC contrast for high-resolution images through plastic vessels Objectives with long working distance and correction rings to enhance contrast and resolution Sample carriers and stages for large cell culture flasks Large field of view imaging (field number: 23 mm)
Transfected live cell cultures	Evaluate and document transfection rate and transfection stability	■ Gentle fluorescence excitation by Colibri 5 and 7
Label-free fixed and thin tissue slices or small organism	Document and evaluate cell and tissue morphology and growth state	 Optimized DIC for low magnification, high numerical aperture multi-immersion lenses
Reproductive or adherent cells and cell cultures	Mechanical manipulation of cells (e.g. injection of germ cells), injection of dyes and other biologically active substances	 Phase contrast, improved Hoffmann Modulation contrast (iHMC), DIC contrast Support for micromanipulators from Narishige, Eppendorf and Luigs & Neumann Heated microscope stage and mounting frames, heating inserts
Living neuronal or muscular cell culture or tissue slices	Observation of fast densitometric, ratiometric and electrical signals	 Water- and silicon oil immersion lenses Apochromatic and UV-enhanced reflected-light illuminator Double camera adapter Duolink Highspeed filter wheels and shutters Fast multicolor LED illumination with Colibri 5 and 7 High efficiency filter sets Z-PIEZO (500 µm) with large travel range
Fixed immunfluorescence labelled tissue or cell culture samples	Identification, quantification and qualification of cell types, cell-, tissue and protein markers in 2D and 3D samples	 Definite Focus 3 Dual filter wheel Apotome 3 Piezo stage for high speed, high precision XY positioning Various mounting frames for different sample carriers
Multi-labelled living tissue section, organs, organotypic-, spheriod or cell culture preparations	Long-term observation of physiological and morphological parameters in 2D/3D	 Autocorr objectives Definite Focus 3 Special objectives for incubation Life cell imaging objectives Long distance objectives Water and silicone oil immersion objectives Aqua Stop II Incubation, CO₂ and O₂ control Camera adapter for large field of view imaging (field number: 23 mm) Colibri 5 and 7
Microbiomes, bacteria and yeast cultures	Identification and characterisation of cell wall, cell cycle and host-parasite interaction	■ C-Apochromat 100×/1.25 W Corr ■ Plan-Apochromat 150×/1.35 Glyc DIC Corr

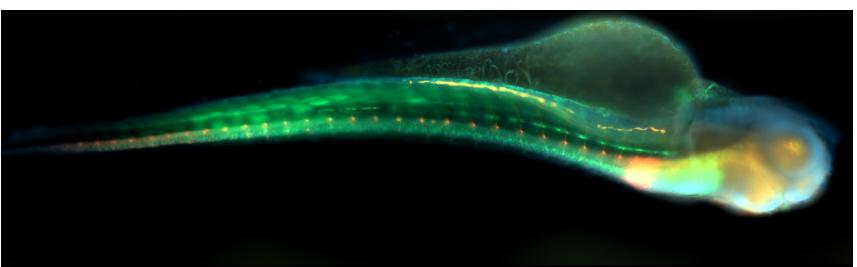
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Autofluorescence of a Lotus Japonicus root infected with symbiotic bacteria stained with mcherry. Courtesy of F. A. Ditengou, University of Freiburg, Germany.

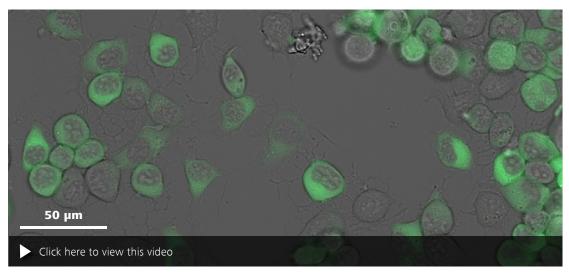




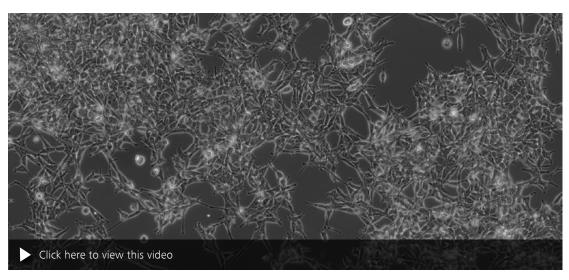
Transgenic zebrafish larvae at 4 days post fertilization staining for: Glial fibrillary acidic protein, acetylated Tubulin, GFP and DNA. Embedded in 1.2 % low melt agarose. Courtesy of H. Reuter, Leibniz-Institute on Aging – Fritz-Lipmann-Institut e.V. (FLI), Germany.

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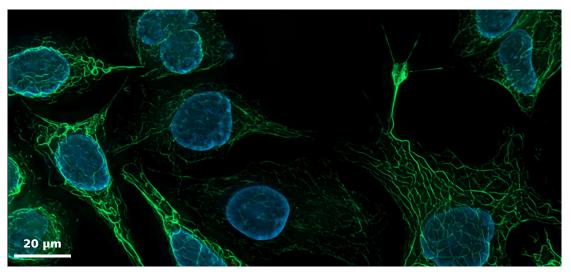
HeLa cell culture with cytosolic eGFP. Proliferation imaged over 16 hours.



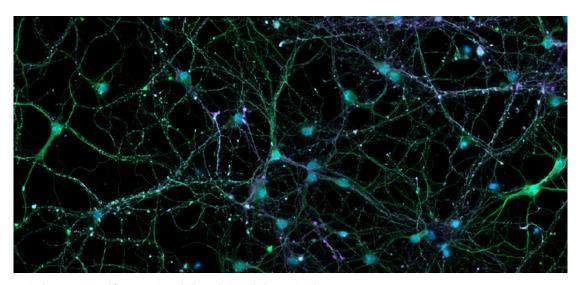
HEK 293 cells. Long-term time lapse recording of 3×3 tiles with 240s interval. Acquired with Axiocam 506 mono, stabilized by Definite Focus 3 at 10s interval.

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SK8 K18 mouse cells. Vimentin stained with Alexa 488 (green), nuclei stained with DAPI (blue).



Cortical neurons stained for DNA, microtubules and microtubule-associated proteins.

Courtesy of L. Behrendt, Leibniz-Institute on Aging – Fritz-Lipmann-Institut e.V. (FLI), Germany.



LLC PK1 cells. Time lapse recording of undisturbed cell division.

Your Flexible Choice of Components

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1 Microscope

- Axio Observer 3: manual stand with encoded components
- Axio Observer 5: manual stand with encoded nosepiece and encoded or motorized reflector turret
- Axio Observer 7: motorized stand with motorized Z-drive
- Al Sample Finder
- Light Manager and Contrast Manager
- Depending on stand version:
 Manual, coded or motorized Optovar turret,
 available magnifications: 1x, 1.6x, 2.5x;
 Manual, coded or motorized 6x reflector turret

2 Objectives

- C-Apochromat autocorr
- C-Apochromat
- LD LCI Plan-Apochromat autocorr
- Plan-Apochromat
- EC Plan-Neofluar
- LD A-Plan
- Temperature isolated i LCI Plan-Neofluar

3 Illumination

- UV/VIS Reflected Light Beampath for fluorescence with high speed shutter, Filter wheel excitation 8-pos. mot. for filters d=25 mm, CAN; Dual filter wheel mot. for beam splitting and emission, CAN; high efficiency filter sets
- Software controlled high-power LED white light source
- Fast multicolor LED illumination system Colibri 5 and 7
- Transmitted light beam path with manual or motorized condensor with long-working distance
- VIS-LED for fast acquisition
- Differential Interference Contrast (DIC), PlasDIC, Phase Contrast, improved Hoffman-Modulation Contrast (iHMC)

4 Imaging Systems

- Apotome 3
- LSM 900 with Airyscan 2
- LSM 980 with Airyscan 2
- Elyra superresolution systems

5 Accessories

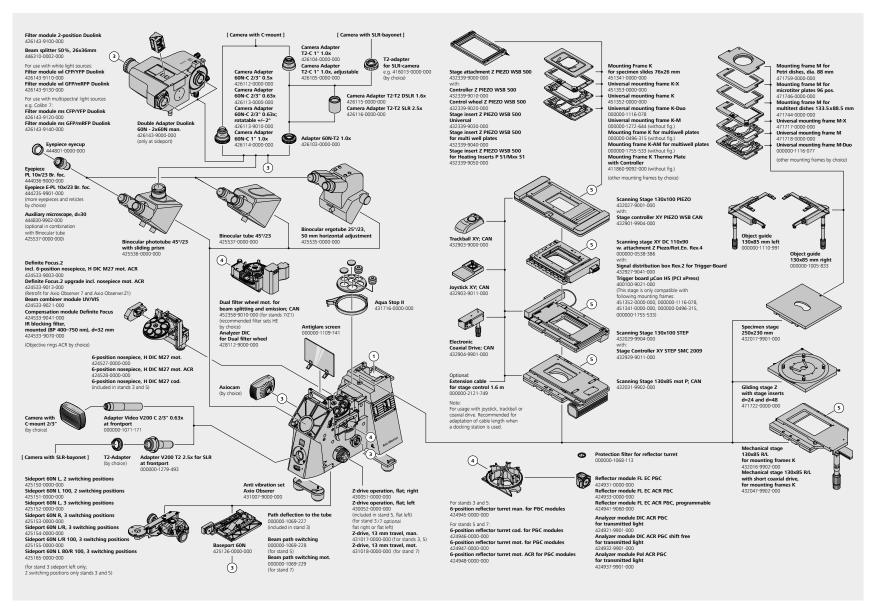
- Broad incubation portfolio
 (heatable mounting frames, heating inserts,
 CO₂ and O₂ controller)
- High precision / high speed motorized scanning stages and a range of manual stages
- Z-PIEZO stage insert with 500 µm travel range
- Adjustable dual camera adapter Duolink
- All Axiocam microscope cameras and a wide range of high-end 3rd party cameras

6 Software

ZEN (blue edition), recommended modules:
 Tiles & Positions, Experiment Designer,
 Physiology (Dynamics), Deconvolution,
 3Dxl Viewer – powered by arivis®

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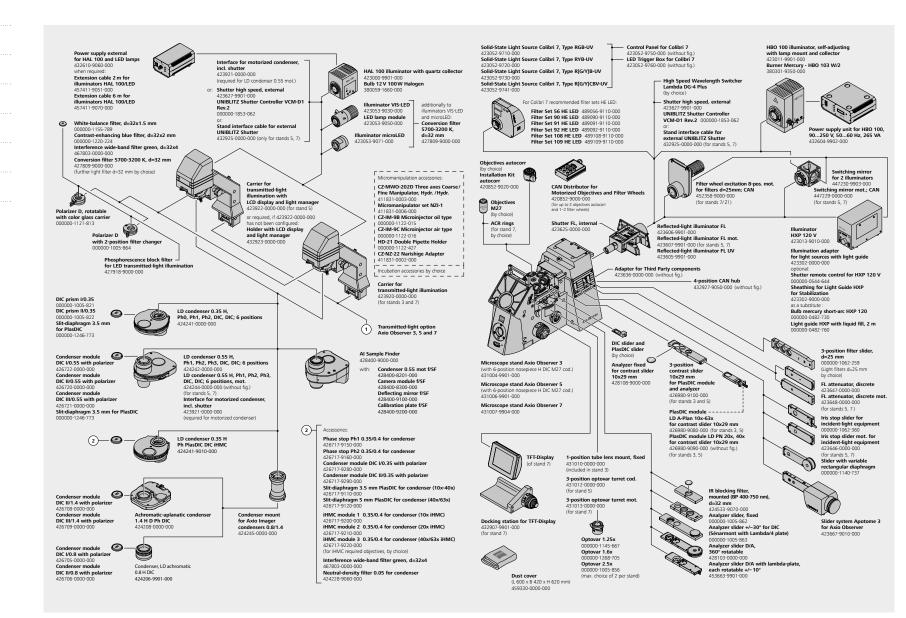
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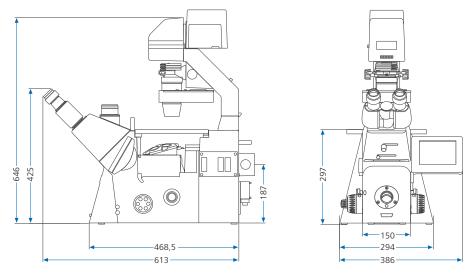
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For more detailed information on dimensions please contact us at microscopy@zeiss.com

	Option	3	5	7
Stand	manual	+	+	-
	motorized	_	0*	+
Encoding	readable by PC	+	+	+
Display	LCD display	-	0**	-
	TFT display	_	_	+
	Docking station	_	_	0
Interfaces	CAN	+	+	+
	RS 232	-	+	+
	USB	+	+	+
	TCP/IP	-	+	+
	Socket for external UNIBLITZ shutter	-	+	+
	Trigger socket (In/Out) for shutter	_	+	+

^{+ =} included in stand o = optionally available o* = optional: reflector turret mot., reflected-light illumination mot., LD condenser 0.55 mot.

o** = requirement (either Carrier transmitted-light illumination, LCD display, Shutter (423926-9010-00) or Holder with LCD display and Light Manager (432923-0000-000)) +*** = "simple" Light manager — = not available

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	Option	3	5	7
4-position CAN hub		=	0	0
Light manager		+***	+	+
Contrast manager		-	-	+
Circular operation key unit	right	-	+	+
	left	-	-	+
Z-focus drive	manual	+	+	-
	motorized, stepper motor drive (z-step size 10 nm)	-	-	+
Adjustable limit stop for z-focus	manual	-	+	-
Automatic Component Recognition (ACR)	Nosepiece ACR	_	-	0
	Reflector turret ACR	-	0	0
Power supply	internal	+	+	-
	external	-	-	+
Z-drive operation (flat control knob)	right	0	-	0
	left	0	+	0
Z-drive, 13 mm extended travel range	manual	0	0	-
	motorized	_	-	0
Nosepiece	6-pos. H DIC cod.	+	+	-
	6-pos. H DIC mot.	_	-	0
	6-pos. H DIC mot. ACR	-	-	0
Definite Focus 3	incl. nosepiece 6-pos. H DIC mot. ACR	-	-	0
Objectives autocorr		-	-	0
Contrast methods transmitted light	PlasDIC	0	0	0
	PlasDIC with contrast slider	0	0	-
Tube lens mount, fixed/Optovar turret	1-pos. tube lens mount, fixed	+	0	0
	3-pos. optovar turret, encoded	-	0	-
	3-pos. optovar turret, motorized	_	_	0

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	Option	3	5	7
Sideport (type)	2 or 3-pos. man. (exit to the left only)	+	_	-
	2 or 3-pos. man. L/R	-	+	-
	3-pos. mot. L/R	-	_	+
Sideport (accessory)	60N L, 2 switching positions (100% vis : 0% L / 20% vis : 80% L)	0	0	-
	60N L 100, 2 switching positions (100 % vis : 0 % L / 0 % vis : 100 % L)	0	0	_
	60N L, 3 switching positions (100% vis : 0% L / 0% vis : 100% L / 50% vis : 50% L)	0	0	0
	60N R, 3 switching positions (100 % vis : 0 % R / 0 % vis : 100 % R / 50 % vis : 50 % R)	-	0	0
	60N L/R 3 switching positions (100 % vis : 0 % LR / 0 % vis : 100 % L / 20 % vis : 80 % R)	-	0	0
	60N R/L 100, 3 switching positions (100 % vis : 0 % LR / 0 % vis : 100 % L / 0 % vis : 100 % R)	-	0	0
	60N L 80/R 100, 3 switching positions (100% vis : 0% LR / 20% vis : 80% L / 0% vis : 100% R)	-	0	0
Path deflection to the tube (VIS only)		+	0	0
Beam path switching (for VIS / frontport / baseport)	manual	-	0	-
	motorized	-	_	0
Baseport / Frontport		-	0	0
Scanning stages	Scanning Stage 130×85 mot; CAN	0	0	0
	Scanning Stage 130×100 STEP	0	0	0
	Scanning Stage 130×100 PIEZO	0	0	0
	Scanning Stage XY DC 110×90 with attachment Z Piezo/Rot.En.	0	0	0
Stage attachment Z PIEZO		0	0	0
Carrier transmitted-light illumination	without LCD display	0	_	0
	with LCD display	-	0**	-
Illuminator transmitted-light	microLED 2, VIS-LED, HAL 100	0	0	0
Condensers	LD 0.35 / LD 0.55, manual	0	0	0
	LD 0.55, motorized	-	0	0
	LD condenser 0.55, motorized; Al Sample Finder	-	_	0
Shutter for transmitted-light	internal	-	0	0
	external, High Speed (with int. controller)	_	0	0

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	Option	3	5	7
Reflected light illumination	manual	0	0	0
	motorized	-	0	0
Slider for reflected light illumination	manual	0	0	0
	motorized	_	0	0
Shutter for reflected light	Shutter FL, internal	0	0	0
	High Speed, external (with int. controller)	-	0	0
Illumination system	HBO 100, HXP 120 V, Colibri 5 and 7, Xylis LED (white light LED)	0	0	0
Reflector turret	6-pos. manual	0	0	-
	6-pos. encoded	=	0	0
	6-pos. motorized	_	0	0
	6-pos. motorized ACR	-	0	0
Fast filter wheels	Dual filter wheel mot. for beam splitting and emission; CAN	-	-	0
	Filter wheel excitation 8-pos. mot. for filters d=25 mm; CAN	-	-	0
Switching mirror mot.; CAN	motorized	-	0	0
Laser safety upgradeable		-	-	0
Apotome 3		_	0	0

o = optionally available - = not available

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.

Repair. Maintain. Optimize.

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.







Profit from the optimized performance of your microscope system with services from ZEISS – now and for years to come.

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