



ZEISS SteREO Discovery.V8

Your Modular Stereo Microscope with Manual 8:1 Zoom



Squid embryo, stage 29, Darkfield



*Zebrafish embryos, 4 hours after fertilization.
Oblique light, Magnification: 25x (through eyepieces)*

Highlights

The modular design of SteREO Discovery.V8 gives much freedom to tailor the microscope to your individual application needs. Your SteREO Discovery.V8 can be a high quality manual dissection microscope, a powerful tool for fluorescence screening and documentation or a motorized system with superior user ergonomics and various imaging features.

It's impressive three-dimensional image perception helps you to better study and manipulate your model organisms. Acquire crisp and apochromatic corrected images, sharply in focus over the whole field of view and throughout the complete zoom range. Easily reproduce discrete zoom magnifications by adding ten selectable click-stops to your continuous zoom – for accurate calibration of pixel sizes in the imaging software package ZEN.

- Fluorescence screening with Achromat S objectives with high transmission and Ease-of-use LED intermediate tubes
- Planapochromatic objectives for documentation without color fringes
- Highly stable stands - for vibration free stereo observations at high magnifications
- Optional motorized components as focus column, mechanical stages - for better user ergonomics and efficiency
- Reflected light illuminators for each application, based on fiber optics or direct LED
- Variable transmitted light units for brightfield, darkfield, oblique light and polarization contrast techniques.
- Photo tube with 0/100 position to minimize exposure times or 50:50 division for education purposes
- Vertical view mode for enhanced Z-stacks, extended depth of field images and stitched overview images

More Insight for Your Research in Developmental Biology

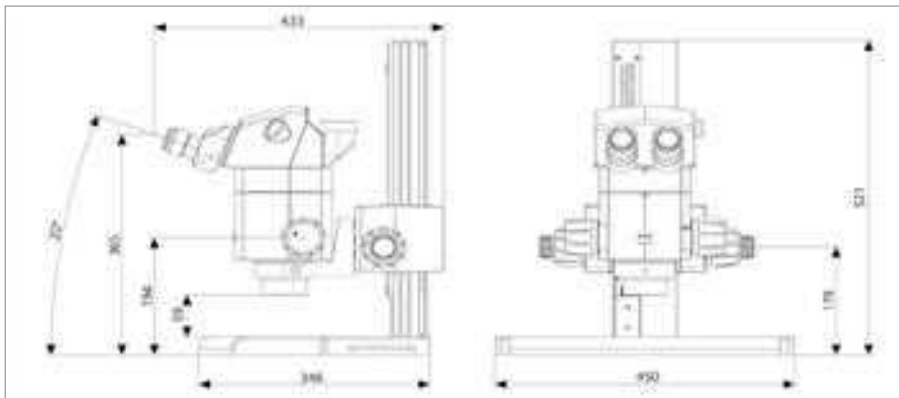
- Efficiently dissect your model organisms, Zebra fish or squid embryos, *Drosophila* or tadpoles. The ergo tubes 5°-45° ensure an ergonomic working position.
- Look at small details on whole, living plants - utilize the extra large focus range and generous sample space.
- Demonstrate dissections in stereo with coobservation equipment S. Or use drawing tube S - your students will learn more by drawing their samples.
- Easily upgrade your fluorescence capabilities with PentaFluar S. Use up to five filter sets.
- Use Timelapse in ZEISS imaging software ZEN to document your Zebrafish embryo growth.





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Special Features:

- Stiffness and low-vibration design of stands optimized by FEM calculation (finite element method)
- Skin friendly High Tech lacquer for stand plate: highly scratch resistant and always hand warm
- Long-term reliability proven by accelerated simulation of 10 years extensive use.
- All optical components in SteREO Discovery.V8 are anti-fungus treated.

Accessories Available:

For Specimen Handling:

Various stages e.g gliding, ball-and-socket, rotating pol stage

For Teaching:

Coobservation equipment, drawing tube, AxioCam ERc5, small stand base 300, photo tube with fixed division

For Fluorescence Screening

LED intermediate tubes, PentaFluar S, equipment, small transillumination base 300

For Documentation

Objective slider S and nosepiece S/doc with easy switch between stereo mode and vertical view mode. Microscope cameras AxioCam ER, IC, MR, HR. Various adapters for 3rd party mirror reflex and video cameras.

Technical Data

Operating Concept	Telescope design, CMO design (Common Main Objective)	
Pancratic zoom range	1 x ... 8 x manual zoom body	
Magnification range and max. resolution for Stereo Observation	10 x ... 80 x max. 346 Lp/mm	Basic version (1x objective and 10x eyepieces) with exchangeable optics
Magnification range and max. resolution for 2D Observation	3 x ... 700 x max. 1211 Lp/mm	with exchangeable optics
Observation tubes	Binocular tubes and phototubes S with fixed viewing angles 20° resp. 35° Binocular Ergo tubes and Ergo phototubes S with variable viewing angle 5-45°, the Ergo tube S 1,25x additionally provides extra long eyepiece tubes for relaxed sitting position. Interpupillary distance at 2 viewing heights, adjustable from 5 mm to 75 mm	
Intermediate tubes	Intermediate phototubes S: manual or motorized, split 100/100 and/or 50/50, to left and/or right side Drawing intermediate tube S, Co-observation equipment S (provides stereoscopic coobservation) Y intermediate tubes S: manual or motorized (switch between stereo and 2D macroscope setting) Intermediate tube S, fixed 40mm (ergo component)	
Objectives	Achromat S 0,3x / 0,5x / 0,63x / 1x / 1,25x / 1,5x Plan S 1x PlanApo S 0,63x / 1x / 1,5x / 2.3x / 3,5x* mono (* for 2D macroscope mode only)	
Eyepieces	PL 10x/23 Br. foc., PL 10x/21 Br. foc. (economic) , PL 16x/16 Br. foc. , W 25x/10 foc* (* incl eyecups)	
Light Source	Fiberoptic light source: CL1500 Eco (150W halogen, 450 lm), CL6000 LED (600 lm), CL9000 LED (900 lm) Direct LED: VisiLED and EasyLED systems – ring, spot and transmitted light illuminators	
Fluorescence contrast	Intermediate LED tubes S (each for one dye); PentaFluar S illuminator for five dyes (coaxial excitation with fiberoptic light sources X-Cite 120/HXP120)	
Polarization kits	Polarizer S for transmitted light units + Analyzer S, turnable, for objective Polarizers for fiber optic or LED spot lights + Analyzer S, turnable, for objective Polarization filter sets S (incl polarizer, analyzer) for fiber optic or LED ring lights	



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