ZEISS Primostar 1

for Education and Teaching



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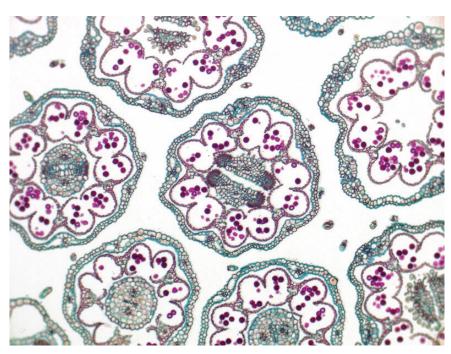


Last updated: 05-2024 Seeing beyond

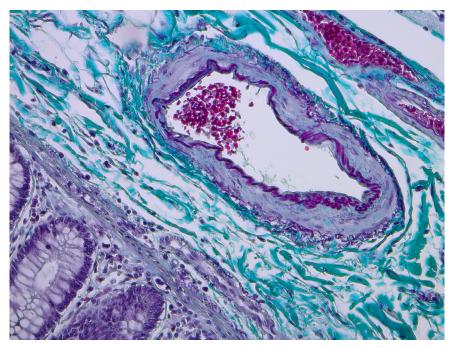
ZEISS Primostar 1

for Education and Teaching

Robust, easy-to-use, quality optics and above all, affordable: educational microscopes must have special requirements. ZEISS Primostar 1 meets them all. Primostar 1 focuses on the essentials. This teaching microscope is optimized for brightfield microscopy of stained samples in the life sciences. Primostar 1 comes as a fixed-package microscope with Fixed-Koehler illumination. Simply plug in and start your discoveries. For sustainable use, Primostar 1 is made of high quality materials and focusses on energy-saving LED illumination. Precision makes teaching with Primostar 1 effective and your choice a highly economical investment.



Daisy umbel (Bellis perennis) brightfield



Pig intestine, Masson-Goldner stained

- Ready-to-use package simply plug in and start working.
- Have full control: blue light intensity display on both sides
 of the stand act as important control function over all microscopes in the course room: for control by the educator
 and quick control by the users
- For right-hand practice: Operate the stage drive with the right hand and use the focus drive with your left hand
- Rackless stage and stage cover for your safety and comfort
- For longevity: robust and short stage drive with easy-toread scales
- A must-have: high standards in material selection: the microscopes consist mainly out of metal
- Height adjustable Siedentopf tube with 30° and field of view of 20 mm adjustment of the individual eye relief in a wide range from 50 mm to 75 mm
- Eyepieces are theft-protected
- One eyepiece with pointer
- Pre-installed objectives:
 Plan-Achromat 4×/0.10, 10×/0.25, 40×/0.65
- Antifungus treatment of objectives
- Optional: Plan-Achromat 100×/1.25 Oil
- LED lifetime: 25,000 hrs
- Optional: Phototube to connect microscope camera for documentation and the connection of microscopes to a digital classroom, 50 vis/50 doc light splitting ratio





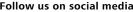
Technical Data

Dimensio	ons (width × depth × height)	
	th binocular tube	approx. 190 mm × 400 mm × 390 mm
Weight		
	r 1 with binocular tube 30°/20	approx. 7.5 kg
Timosta	1 T Will billocalar tabe 30 720	арргол. 7.5 кд
	conditions	
	tation (in packaging): Permissible ambient temperature	−40 to +70 °C
Storage:	Permissible ambient temperature	−10 to +40 °C
	Permissible air humidity (no condensation)	max. 75 % at 35 °C
Operatio	n: Permissible ambient temperature	+5 to +40 °C <80 % at 40 °C
	Permissible air humidity (no condensation) Atmospheric pressure	800 hPa to 1,060 hPa
	Operating altitude	max. 2,000 m
	Degree of pollution	2
Operatin Protection		II
Protection		II IP20
Electrical	••	in compliance with DIN EN 61010-1 (IEC 61010-2-101)
Licetifical	succey	including CSA and UL directives
Pollution	degree	2
	age category	
	erference suppression	in accordance with EN 61326-2
Line volta	··	100 to 240 V (±10 %) wide-range input power supply, i.e. voltage setting of the
		instrument need not be changed!
Line freq	uency	50/60 Hz
Power co	onsumption	max. 100 VA
Plug-in p	ower unit output	12 V DC; max. 2.5 A
Light sou	irces	
LED illum		white light LED, peak wavelength 440 nm, LED class 2
Constant	, brightness-independent color temperature of	3,200 K
Homoge	neous field illumination	20 mm diameter
Suitable	for objectives with magnifications of	4x to 100x
Analogo	us brightness adjustment from	approx. 15 to 100 %
Ontical/	nechanical data	
	th stage focusing	
	rse focusing drive	42 mm / rev.
	focusing drive	0.2 mm / rev.
Total sta	-	15 mm
Objective	e change	manual via quadruple objective nosepiece
Objective	es	infinity-corrected objective range with W 0.8 mounting thread
Eyepiece	S	30 mm tube size
With field	d-of-view number 20	WF 10×/20 Br. foc.
Specime	-	Mechanical rackless stage 75 × 40 right/left
	ons (width × depth)	140 × 140 mm
	vel (X × Y)	75 × 40 mm
Coaxial d		optionally right or left
Vernier s		readable from the right
Specimen		with spring lever, left
Abbe condenser 0.9/1.25; Fixed-Köhler for object Binocular tube 30°/20, Trinocular tube 30°/20		for objectives 4x to 100x
	n field-of-view	20
	illary distance	adjustable from 50 to 75 mm
Tube and		30°
Viewing		380 to 415 mm
Viewing	-	tube factor 1x
	ing mirror	with plane surface and spherical surface with f' = 75 mm
	deo port, tube factor	1x
	deo port, mount	60 mm

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Invariable splitting ratio











50 vis/50 doc %





