

KERN OBS 105



The school microscope – for the first steps in microscopy and for use in biology lessons



Date of creation: 10.07.2026

Category	
Brand	Optics
Product category	Microscope
Product group	Compound microscope
Product family	OBS-1

Construction	
Dimension (W×D×H)	130×300×310 mm
Optical system	Finite
Tube type	Monocular
Tube angle of inclination	45°
Tube 360° rotation	✓
Contrasting methods	Bright field
Standard objectives	4×
	10×
	40×
Lens quality	achromatic
Nosepiece screw-in locations	4
Eyepieces fixed	✓
Interpupillary distance [Min]	55 mm
Interpupillary distance [Max]	75 mm

Ocular	
Ocular type	Eyepiece WF 10x / Ø 18mm with anti-fungus
Ocular field width	WF
Eye point	Standard
Ocular magnifications	10x
Ocular visual field	18 mm

Ocular diameter 23,2 mm

Objective	
Objectives - Details	Objective Achromatic 10x / 0,25 anti-fungus
	Objective Achromatic 4x / 0,1 anti-fungus
	Objective Achromatic 40x / 0,65 spring, anti-fungus
Objectives magnifications	4x / 10x / 40x

Illumination	
Illuminance	Transmitted light
Illumination type transmitted light	LED
Illumination intensity transmitted light	0,5 W
Illumination dimmable	Transmitted light
Filter possible	✓
Aperture diaphragm	✓

Focussing	
Field of view [Min]	0,45 mm
Field of view [Max]	4,5 mm
Fine drive minimum	0,00025 mm
Focusing mechanism	coaxial coarse and fine drive

Condensor	
Condensor type	Abbe
Condenser - Mounting	fixed
Condenser - Aperture	1,25
Aperture diaphragm	✓

Power Supply	
Supplied power supply	Accu & Power supply
Power supply type	Power adapter
Plug-in power supply / adapter for countries - included with the delivery	EURO
Plug-in power supply / adapter for countries - optional	EURO UK
Input voltage power supply / power [Max]	100 - 240 V
Power supply cable removable	removable
Input voltage device / power [Max]	6 V, 500 mA

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Battery / accumulator type	NiMH
Battery	3×1.2V AA
Battery connection	Plug-in terminals
Rechargeable battery operating time - backlight on	4 h
Rechargeable battery charging time	10 h
Battery/Accu connected	fixed electrical connection, not insulated

Environmental conditions

Storage temperature [Min]	-5 °C
Storage temperature [Max]	40 °C

Approval

CE mark	✓
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Packing & Shipping

Delivery time	1 d
Dimensions packaging (W×D×H)	425×280×220 mm
Shipping method	Parcel service
Net weight approx.	3,2 kg
Gross weight approx.	4,0 kg
Shipping weight	5,2 kg
Shipping volume weight	5,2 kg

Product information

ATTR_warrantyTime	24 mon
Trade number	90118000
GTIN/EAN number	4045761228382

Pictograms

STANDARD

