

KERN OBS 103

KERN

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



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

Illumination

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

Power Supply

Input voltage power supply / power [Max]	100 - 240 V
Input voltage device / power [Max]	6 V, 500 mA
Plug-in power supply type	Power adapter
Supplied power supply	Battery & Power supply
Plug-in power supply / adapter for countries - included with the delivery	EURO
Plug-in power supply / adapter for countries - optional	EURO UK
Rechargeable battery charging time	10 h
Rechargeable battery operating time - backlight on	4 h
Battery	3×1.2V AA
Battery / accumulator type	NiMH
Battery connection	Plug-in terminals

Environmental conditions

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

Packing & Shipping

Readability force [d] (N)	1 d
Dimensions packaging (W×D×H)	420×280×220 mm
Net weight	2,138 kg
Shipping method	Parcel service
Net weight approx.	2,2 kg
Gross weight approx.	3,0 kg
Shipping weight	5,2 kg

Category

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

Approval

CE mark	✓
---------	---

Construction

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

Ocular

Ocular field width	WF
Eye point	Standard
Ocular magnifications	10 x
Ocular visual field	18 mm
Ocular diameter	23,2 mm

Focussing

Fine drive minimum	0,0025 mm
--------------------	-----------

KERN OBS 103



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

Objective

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

Pictograms

STANDARD

