

KERN OBT 231

KERN

The modern compound microscope for teaching in your class room



Category

Brand	Optics
Product category	Microscope
Product group	Compound microscope
Product family	OBT-2

Display

Display type	LCD
Display screen size	7"
Display resolution	1844×1080

Languages of the user interface	German English French Russian
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Construction

Dimension (W×D×H)	182×195×360 mm
Dimension display device (W×D×H)	182×15×125 mm
Material display housing	Plastics
Optical system	Finite
Tube angle of inclination	30°
Tube 360° rotation	✓
Light distribution	0:100
Contrasting methods	Bright field
Standard objectives	4× 10× 40× 100×
Lens quality	achromatic
Nosepiece screw-in locations	4
Colour temperature	6000 K

Functions

Camera - Applicable software	integrated
Camera - Software functions	Image capturing Video capturing Measurements
Memory - total size	16 GB

Interface

Interfaces	USB 2.0 MicroSD card slot
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Objective

Objectives - Details	Objective Achromatic 10 x / 0,25 Objective Achromatic 100 x / 1,25 oil, spring Objective Achromatic 4 x / 0,1 Objective Achromatic 40 x / 0,65 spring
Objectives magnifications	4 x / 10 x / 40 x / 100 x

Illumination

Illuminance	Transmitted light
Illumination type transmitted light	LED
Illumination intensity transmitted light	1 W
Illumination dimmable	Transmitted light
Filter possible	✓

Focussing

Field of view [Min]	0,45 mm
Field of view [Max]	4,5 mm
Fine drive minimum	0,0025 mm
Focusing mechanism	coaxial coarse and fine drive

Camera

Cameratype	Tablet camera
Camera - Resolution	2 MP
Camera - Sensor type	CMOS
Camera - Sensor size	1/2,8"
Camera - Framerate	60 fps
Camera - Mounting types	Plug-in connection
Camera - Exposure method	Rolling Shutter
Camera - Sensor Diagonal	6,46 mm
Camera - Pixel size	2,9×2,9 μm

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Camera - FPS range 1	30 FPS
Camera - Resolution range 1	1844x1080
Camera - Exposure time [Min]	0,03 ms
Camera - Exposure time [Max]	40 ms

Power Supply

Supplied power supply	Power supply unit
Plug-in power supply type	Power adapter
Plug-in power supply / adapter for countries - optional	EURO
Input voltage power supply / power [Max]	100 - 240 V
Input voltage device / power [Max]	5 V, 2 A

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)	560×440×330 mm
Shipping method	Parcel service
Net weight approx.	6 kg
Gross weight approx.	8 kg
Shipping weight	16,3 kg

Pictograms

STANDARD



OPTION





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Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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Please contact us if this literature doesn't answer all your questions.