

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	plastic
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	S-Viewer (OXM 904) integrated camera software
Camera - Software functions	Image capturing Video capturing Measurements
Supported operating systems	Win 7 Win 8 Win 10 Win 11
Memory - total size	16 GB
System requirements CPU	Intel Core i3 or higher AMD Ryzen 5 or higher
System requirements RAM	8 GB
System requirements SSD storage	128 GB SSD
System requirements graphics card	NVIDIA GeForce RTX 3060 AMD Radeon RX 6600
System requirements screen	20" HD or larger
System requirements clock speeds	2.8 GHz

Interface

Interfaces	USB 2.0 MicroSD card slot
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Objective

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

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

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Focusing mechanism coaxial coarse and fine drive

Condensor

Condensor type Abbe

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
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
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 UK
Input voltage power supply / power [Max] 100 - 240 V
Power supply cable removable removable
Input voltage device / power [Max] 5 V, 2 A
Power socket for mains adapter Hollow plug inside plus, Ø outside 5,5 mm; Ø inside 2,1 mm

Environmental conditions

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

Approval

CE mark ✓

Packing & Shipping

Delivery time 1 d
Dimensions packaging (W×D×H) 275×205×540 mm
Shipping method Parcel service

Net weight approx. 3,0 kg
Gross weight approx. 3,8 kg
Shipping weight 6,1 kg

Product information

GTIN/EAN number 4045761484894
Trade number 90118000
REACH classification no prohibited substances

Pictograms

STANDARD



OPTION

