KERN **OBT 231**

The modern compound microscope for teaching in your class room



Date of creation: 24.10.2026

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

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	
Supported operating systems	Win 7 Win 8 Win 10 Win 11
Memory - total size	16 GB
Camera - Software functions	Image capturing Video capturing Measurements
Camera - Applicable software	S-Viewer (OXM 904) integrated camera software
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	13" Full HD, 1920x1080
System requirements clock speeds	2.8 GHz

Interface	
Interfaces	USB 2.0 MicroSD

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	✓

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80000	Mikroskoptisch	
Bauweise	mechanical
Größe	115×82×15 mm
Weg	52 mm; 20 mm
Durchlicht möglich	✓
ATTR_microscopeTableSpecimentHolders	1

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

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

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

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
Shipping volume weight	6,1 kg

Product information	
GTIN/EAN number	4045761484894
Trade number	90118000
Warranty Time	36 mon
REACH classification	no prohibited substances

Pictograms

STANDARD



OPTION

