KERN **OBT 231**

The modern compound microscope for teaching in your class room



Category

Brand	Optics
Product categoriy	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	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

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 incident light	none
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

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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
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	✓

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

