

Digital microscope sets KERN OBE-S · OBF-S



Our all-round compound microscope as a comprehensive digital solution for schools, training and laboratories

Features

- Laboratory microscopes from the OBE and OBF range are now also available to you as a comprehensive digital solution for your live investigations. Optionally available with a mounted tablet or C-mount camera. Naturally, the appropriate C-mount adapter is included with the delivery
- The mounted KERN ODC 241 tablet-camera has been specially developed for simple, convenient and direct investigation of the sample on the screen. Ideally suited for school pupils and students in education or for demonstration purposes in the laboratory
- The mounted C-mount camera is available in different versions and can be used anywhere

- For detailed information on the individual components, see the relevant product description of the individual item
- A protective dust cover, eye cups, as well as multi-lingual user instructions are included in the scope of the delivery

- Net weight approx. 5,5 kg
- Objective quality: Achromatic
- Objectives OBE 104: 4×/10×/40×
- Objectives OBE 114: 4×/10×/40×/100×
- Illumination: 3 W LED (transmitted)

Technical data

- Finite optical system
- Quadplex nosepiece
- Siedentopf 30° inclined/360° rotatable
- Diopter adjustment: One-sided
- Eyepiece: HWF 10×/ø 18 mm

OBE-1

- Overall dimensions W×D×H
320×180×365 mm

OBF-1

- Overall dimensions W×D×H
395×200×380 mm
- Net weight approx. 7,7 kg
- Objective quality OBF 131: Achromatic
- Objective quality OBF 132/133: Plan
- Objectives: 4×/10×/40×/100×
- Illumination OBF 131/132:
20 W Halogen (transmitted)
- Illumination OBF 133: 3 W LED (transmitted)

Model	Standard configuration (camera)					
	Included camera	Resolution camera	Interface	Sensor	Details microscope, camera	
OBE 104C825	ODC 825	5 MP	USB 2.0 (6,8 - 55 FPS)	CMOS 1/2,5"	KERN Optics catalogue Page 13, 90	
OBE 114C825						
OBE 104C832	ODC 832	5 MP	USB 3.0 (14,2 - 101,2 FPS)	CMOS 1/2,5"		
OBE 114C832						
OBE 104T241	ODC 241	5 MP	WLAN, USB 2.0, HDMI, SD (15 - 30 FPS)	CMOS 1/2,5"	KERN Optics catalogue Page 13, 94	
OBE 114T241						
OBF 131C825*	ODC 825	5 MP	USB 2.0 (6,8 - 55 FPS)	CMOS 1/2,5"	KERN Optics catalogue Page 18, 90	
OBF 132C825*						
OBF 133C825*	ODC 832	5 MP	USB 3.0 (14,2 - 101,2 FPS)	CMOS 1/2,5"		
OBF 131C832*						
OBF 132C832*	ODC 832	5 MP	USB 3.0 (14,2 - 101,2 FPS)	CMOS 1/2,5"	KERN Optics catalogue Page 18, 90	
OBF 133C832*						
OBF 131T241*	ODC 241	5 MP	WLAN, USB 2.0, HDMI, SD (15 - 30 FPS)	CMOS 1/2,5"		KERN Optics catalogue Page 18, 94
OBF 132T241*						
OBF 133T241*						

* ONLY WHILE STOCKS LAST

Pictograms

360° rotatable microscope head	Fluorescence illumination for compound microscopes With 3 W LED illumination and filter	WLAN data interface For transmitting of the picture to a mobile display device
Monocular Microscope For the inspection with one eye	Phase contrast unit For a higher contrast	HDMI digital camera For direct transmitting of the picture to a display device
Binocular Microscope For the inspection with both eyes	Darkfield condenser/unit For a higher contrast due to indirect illumination	PC software To transfer the measurements from the device to a PC
Trinocular Microscope For the inspection with both eyes and the additional option for the connection of a camera	Polarising unit To polarise the light	Automatic temperature compensation For measurements between 10 °C and 30 °C
Abbe Condenser With high numerical aperture for the concentration and the focusing of light	Infinity system Infinity corrected optical system	Protection against dust and water splashes IPxx The type of protection is shown by the pictogram
Halogen illumination For pictures bright and rich in contrast	Zoom magnification For stereomicroscopes	Battery operation Ready for battery operation. The battery type is specified for each device
LED illumination Cold, energy-saving and especially long-life illumination	Parallel optical system For stereomicroscopes, enables fatigue-proof working	Battery operation rechargeable Prepared for a rechargeable battery operation
Incident illumination For non-transparent objects	Integrated scale In the eyepiece	Mains adapter 230V/50Hz in standard version for EU. On request GB, AUS or USA version
Transmitting illumination For transparent objects	SD card For data storage	Power supply Integrated in microscope. 230V/50Hz standard EU. More standards e.g. GB, AUS or USA on request
Fluorescence illumination for stereomicroscopes	USB 2.0 digital camera For direct transmitting of the picture to a PC	Package shipment The time required to manufacture the product internally is shown in days in the pictogram
Fluorescence illumination for compound microscopes With 100 W mercury lamp and filter	USB 3.0 digital camera For direct transmitting of the picture to a PC	

Abbreviations

C-Mount Adapter for the connection of a camera to a trinocular microscope	LWD Long Working Distance	SWF Super Wide Field (Field number at least \varnothing 23 mm for 10 \times eyepiece)
FPS Frames per second	N.A. Numerical Aperture	W.D. Working Distance
H(S)WF High (Super) Wide Field (Eyepiece with high eye point for wearers of glasses)	SLR camera Single-Lens Reflex camera	WF Wide Field (Field number up to \varnothing 22 mm for 10 \times eyepiece)

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