Compound microscope KERN OBD-1





Easy connection to the PC,
Laptop not included in delievery

LAB LINE

The digital model for the flexible user in the laboratory and vocational training

Features

- The KERN OBD is an excellent and robust laboratory microscope with integral, 3 MP camera for all common routine applications.
- English-language software is included.
- Thanks to the simple Koehler illumination, the adjustable field diaphragm and a pre-centred and height adjustable Abbe condenser with adjustable aperture diaphragm, these microscopes produce impressive images.
- The microscopes are equipped with diopter adjustment, wide field eyepieces and infinity corrected E-plan objectives.
- A nosepiece for up to four objectives and a large stage are provided as standard.
- The following optional accessories are available: A complete polarisation kit, a phase contrast unit and a dark field unit.
- One of the central features of this variable and simultaneously robust digital microscopes is the stable and precisely adjustable mechanism.

Technical data

- Eyepieces: WF 10x20 mm
- Objectives: 4x / 10x / 40x / 100x
- Overall dimensions WxDxH 394x185x419 mm
- Net weight approx. 7 kg

Please find detailed information in the following charts.

STANDARD



OPTION



Model	Standard configuration			
KERN	Optical system	Tube	Illumination	
OBD 127	Infinity	Binocular	6V / 20W Halogen (transmitting)	

KERN & SOHN GmbH • Ziegelei 1 • 72336 Balingen • Germany • Tel. + 49-[0]7433-9933-0 • Fax + 49-[0]7433-9933-149 • www.kern-sohn.com • info@kern-sohn.com

Compound microscope KERN OBD-1

Model outfit		Model KERN	Order number	
		OBD 127		
Eyepiece	WF 10x / Ø 20 mm	●●	OBB-A1351	
Infinity E-Plan objectives	4x	●	OBB-A1161	
	10x	●	OBB-A1159	
	40x / 0,65 (spring)	●	OBB-A1160	
	100x / 1,25 (oil) (spring)	●	OBB-A1158	
	Plan 20x / 0,40	○	OBB-A1250	
	Plan 60x / 0,80 (spring)	○	OBB-A1270	
Digital tube Trinocular (3MP)	· 30° inclined, 360° rotatable · Interpupillary distance: 50 – 75 mm · With diopter adjustment (one-sided) · Light distribution: 80:20 · Built-in digital 3MP Camera with ½" CMOS · USB port for PC without extra power supply · With English language software "MicroscopePIC" for Windows XP, 7, Vista	●	OBB-A1126	
Nosepiece	Quadplex	●		
Mechanical stage	· Stage size: WxD 145x140 mm, · Travel: 76x52 mm · Two slide holder	●		
Condenser	Abbe N.A. 1,25 precentered (aperture diaphragm)	●	OBB-A1103	
Illumination	6V / 20W Halogen (transmitting)	●	OBB-A1204	
Field diaphragm	Field diaphragm	●		
Darkfield unit	N.A. 0,9 (Dry) Usable for 4x – 40x objectives	○	OBB-A1149	
Polarising unit	Analyser / Polariser	○	OBB-A1277	
Independent phase contrast unit (including PH-condenser and PH-slides)	Independent slot with ∞ PH-Plan objective 10x	○	OBB-A1215	
	Independent slot with ∞ PH-Plan objective 20x	○	OBB-A1217	
	Independent slot with ∞ PH-Plan objective 40x	○	OBB-A1219	
	Independent slot with ∞ PH-Plan objective 100x	○	OBB-A1213	
Filter	Blue (built-in)	●	OBB-A1178	

● = Standard configuration ○ = Option

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KERN Pictograms:



360° rotatable microscope head



Monocular Microscope
For the inspection with one eye



Binocular Microscope
For the inspection with both eyes



Trinocular Microscope
For the inspection with both eyes and the additional option for the connection of a camera



Abbe Condenser
With high numerical aperture for the concentration and the focusing of light



Halogen illumination
For pictures bright and rich in contrast



LED illumination
Cold, energy saving and especially long-life illumination



Incident illumination
For non-transparent objects



Transmitting illumination
For transparent objects



Fluorescence illumination
For stereomicroscopes



Fluorescence illumination for compound microscopes
With 100 W mercury lamp and filter



Fluorescence illumination for compound microscopes
With 3 W LED illumination and filter



Phase contrast unit
For a higher contrast



Polarising unit
To polarise the light



Infinity system
Infinity corrected optical system



Zoom magnification
For stereomicroscopes



Parallel optical system
For stereomicroscopes, enables fatigue-proof working



Integrated scale
In the eyepiece



Integrated USB 2.0 digital camera
For direct transmitting of the picture to a PC



Integrated USB 3.0 digital camera
For direct transmitting of the picture to a PC



Automatic temperature compesation
For measurements between 10 °C and 30 °C



Protection against dust and water splashes IPxx
The type of protection is shown by the pictogram.



Battery operation
Ready for battery operation. The battery type is specified for each device.



Rechargeable battery pack
Rechargeable set.



Mains adapter
230V/50Hz in standard version for EU. On request GB, AUS or USA version.



Power supply
Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, AUS or USA on request.



Package shipment
The time required to manufacture the product internally is shown in days in the pictogram.



Warranty
The warranty period is shown in the pictogram.

Abbreviations

C-Mount Adapter for the connection of a camera to a trinocular microscope

H(S)WF High (Super) Wide Field (Eyepiece with high eye point for wearers of glasses)

LWD Long Working Distance

N.A. Numerical Aperture

SLR Kamera Single-Lens Reflex camera

SWF Super Wide Field (Field number at least Ø 23 mm for 10x eyepiece)

W.D. Working Distance

WF Wide Field (Field number up to Ø 22 mm for 10x eyepiece)

Your KERN specialist dealer: