Compound microscope KERN OBD-1



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

Features

- The KERN OBD-1 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						
	Ū	00	\mathbf{A}	Ð	$\mathbf{\infty}$	⊷			3 YEARS	0	
	360°	BINO	ABBE	HAL	INFINITY	USB 2.0	230 V	1 DAY	WARRANTY	PH	POLAR

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







Easy connection to the PC, Laptop not included in delievery

Compound microscope KERN OBD-1



Model outfit		Model KERN	Order number	
	-	OBD 127		
Eyepiece	WF 10x / Ø 20 mm	••	OBB-A1351	
	4x/0,10	•	OBB-A1161	
	10x / 0,25	•	OBB-A1159	
Infinity	40x / 0,65 (spring)	•	OBB-A1160	
E-Plan objectives	100x / 1,25 (oil) (spring)	•	OBB-A1158	
	Plan 20x / 0,40	0	OBB-A1250	
	Plan 60x / 0,80 (spring)	0	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	0	OBB-A1149	
Polarising unit	Analyser / Polariser	0	OBB-A1277	
Independent phase	Independent slot with ∞ PH-Plan objective 10x	0	OBB-A1215	
contrast unit	Independent slot with ∞ PH-Plan objective 20x	0	OBB-A1217	
(including PH-condenser and	Independent slot with ∞ PH-Plan objective 40x	0	OBB-A1219	
PH-slides)	Independent slot with ∞ PH-Plan objective 100x	0	OBB-A1213	
Filter	Blue (built-in)	•	OBB-A1178	

= Standard configuration

 \mathbf{O} = Option

KERN Pictograms:



360° rotatable microscope head



Monocular Microscope For the inspection with one eye



Binocular Microscope For the inspection with both eyes

Trinocular Microscope



73

ABBE

the additional option for the connection of a camera Abbe Condenser With high numerical aperture for the

For the inspection with both eyes and



Halogen illumination For pictures bright and rich in contrast

concentration and the focusing of light



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



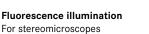
Incident illumination For non-transparent objects



Transmitting illumination For transparent objects



Fluorescence illumination





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

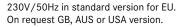
Ready for battery operation. The battery type is specified for each device.



Rechargeable battery pack Rechargeable set.



Mains adapter





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.



DAYS

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

Your KERN specialist dealer:

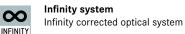
N.A.	Numerical Aperture	W.D.	Working Distance	
	Single-Lens Reflex camera	WF	Wide Field (Field number up to Ø 22 mm for 10x evepiece)	
SWF	Super Wide Field (Field number at least Ø23 mm for 10x eyepiece)			



Polarising unit

Phase contrast unit

For a higher contrast



Fluorescence illumination

for compound microscopes

Fluorescence illumination

for compound microscopes

With 100W mercury lamp and filter

With 3W LED illumination and filter



FL-HBO

C

FL-LED

0

PH

ŧĿ

POLAR

Zoom magnification For stereomicroscopes



Parallel optical system For stereomicroscopes, enables fatigue-proof working

Integrated scale Lunn In the eyepiece SCALE





For direct transmitting of the picture to a PC



Integrated USB 3.0 digital camera



Wolf Laboratories Limited

www.wolflabs.co.uk

Tel: 01759 301142

Fax:01759 301143

sales@wolflabs.co.uk



Use the above details to contact us if this literature doesn't answer all your questions.

Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.





