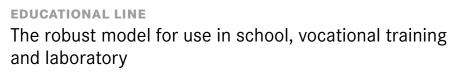
## Compound microscope KERN OBE-1





### Features

- The KERN OBE is a very easy to use, robust and stable educational microscope for all common routine applications.
- Thanks to its dimmable, strong 3W LED light source, it produces impressive images for its class.
- These microscopes are fitted with wide field eyepieces, achromatic objectives, a nosepiece for up to four objectives, a large, fully-fledged stage and an Abbe condenser, all as standard.
- Available as a mono or binocular model with diopter adjustment (binocular models only).

- A large selection of different eyepieces and objectives, a simple polarisation unit and a dark field unit are also available.
- Height adjustment is by means of coarse and fine focusses on both sides.
- A rechargeable model, equipped with a long-life battery, is also available.
- One of the central features of this variable and simultaneously robust series of microscopes is the stable and precisely adjustable mechanism. This is underlined by the functional and ergonomic design.





Mononcular OBE 111







Simple polarising unit

Darkfield unit

#### Technical data

- Eyepieces: WF 10x18 mm
- Objectives: 4x / 10x / 40x / 100x
- Quadplex nosepiece
- Tube 360° rotatable / 30° inclined
- Overall dimensions
   WxDxH 324x191x348 mm
- Net weight approx. 5,5 kg

Please find detailed information in the following charts.

STANDARD								OPTION			
Ü	0	00	$\boldsymbol{\Lambda}$	Ð			<b>3</b> YEARS			huun	
360°	MONO	BINO	ABBE	LED	230 V	1 DAY	WARRANTY	POLAR	ACCU	SCALE	

Model	Standard configuration				
KERN	Optical system	Tube	Illumination		
OBE 111	Achromatic	Monocular	3W LED (transmitting)		
OBE 112	Achromatic	Binocular	3W LED (transmitting)		
OBE 113	Achromatic	Binocular	3W LED (transmitting) (rechargeable battery incl., rechargeable)		

# Compound microscope KERN OBE-1



Model outfit	Model KERN			Order number	
		OBE 111	OBE 112	OBE 113	
	WF 10x / Ø 18 mm	•	••	••	OBB-A1347
<b>-</b>	WF 10x / Ø 18 mm (with Pointer)	0	0	0	OBB-A1348
Eyepieces	WF 16x / Ø 13 mm	0	00	00	OBB-A1354
	WF 10x / Ø 18 mm (reticule 0,1 mm) (non-adjustable)	0	0	0	OBB-A1349
	4x	•	•	•	OBB-A1111
	10x	•	•	•	OBB-A1108
Achromatic	40x (spring)	•	•	•	OBB-A1112
objectives	100x / 1,25 (oil) (spring)	•	•	•	OBB-A1109
	20x	0	0	0	OBB-A1110
	60x (spring)	0	0	0	OBB-A1113
Monocular tube	30° inclined, 360° rotatable	•			OBB-A1227
Binocular tube	<ul> <li>Siedentopf, 30° inclined, 360° rotatable</li> <li>Interpupillary distance: 50 – 75 mm</li> <li>With diopter adjustment (one-sided)</li> </ul>		•	•	OBB-A1123
Nosepiece	Quadplex	•	•	•	
Mechanical stage	Stage size: WxD 120x115 mm     Travel: WxD 50x70 mm	•	•	•	
Condenser	Abbe N.A. 1,25 (aperture diaphragm)	•	•	•	OBB-A1101
Darkfield unit	Usable for 4x – 40x objectives	0	0	0	OBB-A1148
Polarising unit	Analyser / Polariser	0	0	0	OBB-A1276
	3W LED illumination system (transmitting) (non-rechargeable)	•	•		
Illumination	3W LED illumination system (transmitting) (rechargeable)			•	

= Standard configuration

**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



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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** 





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

Fluorescence illumination

for compound microscopes



With 3W 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



Warranty

the pictogram.

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:

Working Distance Wide Field (Field number up to Ø22 mm for 10x eyepiece)

