







Stage plate white

#### **EDUCATIONAL LINE**

# The practical and robust product for schools, training centres, the workshop and laboratory

#### Features

- With its integrated handle as well as its stable arm curved stand, the KERN OSF-4G has been specially developed for schools and workshops.
- The LED reflected and transmitted illumination included as standard guarantees the very best, continuously dimmable illumination of your sample.
- As well as very good optical characteristics, its ergonomic working surface means that it offers the highest level of convenience in this class.
- A turnable objective with three predefined magnifications is available to make your working procedures quicker and more effective.

- The eyepieces are fixed in the eyepiece tube, to stop them getting damaged or lost.
- The ergonomic shape and the stable mechanism which can be adjusted extremely accurately offer a high level of functionality and enable you to work quickly and efficiently with very little effort.
- A large selection of eyepieces as well as various additional external illumination units are available as accessories.
- A protective dust cover, eye cups, as well as multi-lingual user instructions are included in the scope of delivery.
- Please find detailed information in the following charts.

#### Scope of application

 Training, in vitro fertilisation, detection of parasites, zoology and botany, tissue preparation, section, quality control

#### Applications/Samples

 Samples with focus on three-dimensional impression (depth, thickness), e.g. insects, seeds, circuit boards, components

#### Technical data

- Optical system: Greenough optics
- Brightness adjustable (separate)
- Tube 45° inclined
- Interpupillary distance: 55 75 mm
- Diopter adjustment: One-sided
- Overall dimensions W×D×H 230×180×275 mm
- Net weight approx. 2,5 kg

#### STANDARD















Model	Standard configuration							
	Tube	Eyepiece	Field of view	Objective	Stand	Illumination		
KERN			mm					
OSF 438	Binocular	WF 10×/Ø 20 mm	Ø 20	1×/2×/3×	Arm curved	1 W LED (incident); 0,35 W LED (transmitted)		
OSF 439	Binocular	WF 10×/Ø 20 mm	Ø 20	1×/2×/4×	Arm curved	1 W LED (incident); 0,35 W LED (transmitted)	1	

# Stereomicroscope KERN OSF-4G



Eyepiece	Specifications - Objectives							
	Magnification	1×	2×	3×	4×			
WF 5×	Total magnification	5×	10×	15×	20×			
WF 5*	Field of view mm	Ø 20	ø 10	Ø 6,7	Ø 5			
WE 40	Total magnification	10×	20×	30×	40×			
WF 10×	Field of view mm	ø 20	ø 10	Ø 6,7	Ø 5			
WE 45	Total magnification	15×	30×	45×	60×			
WF 15×	Field of view mm	ø 15	Ø 7,5	Ø 5	ø 3,7			
WE 20	Total magnification	20×	40×	60×	80×			
WF 20×	Field of view mm	ø 10	Ø 6,5	ø 4,3	ø 3,2			
Working distance		57 mm	57 mm	57 mm	57 mm			

Model outfit		Mode	I KERN	Order number		
		OSF 438	OSF 439			
Eyepieces (30,5 mm)	WF 5×/Ø 16,2 mm	00	00	OZB-A4101		
	WF 10×/ø 20 mm	44	11	OZB-A4102		
	WF 15×/ø 15 mm	00	00	OZB-A4103		
	WF 20×/ø 10 mm	00	00	OZB-A4104		
Stand	Arm curved, incl. handle, with LED illumination (0,35 W transmitted + 1 W incident)	<b>✓</b>	✓			
Stage plate	Frosted glass/Ø 59,5 mm	✓	✓	OZB-A4815		
	Black-white/Ø 59,5 mm	✓	✓	OZB-A4816		
External illumination	Please find the information about external illumination units in the catalogue from page 81 and on our website www.kern-sohn.com					

✓ = Included with delivery

O = Option

### **KERN Pictograms:**





360° rotatable microscope head



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



SD card For data storage



Monocular Microscope

For the inspection with one eye



Phase contrast unit For a higher contrast



PC software

To transfer the measurements from the device to a PC.



Binocular Microscope

For the inspection with both eyes



Darkfield condenser/unit

For a higher contrast due to indirect illumination



Automatic temperature compesation

For measurements between 10 °C and 30 °C



Trinocular Microscope

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



Polarising unit

To polarise the light



Protection against dust and water splashes IPxx

The type of protection is shown by the pictogram.



Abbe Condenser

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



Infinity system

Infinity corrected optical system



**Battery operation** 

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



Halogen illumination

For pictures bright and rich in contrast



Zoom magnification

For stereomicroscopes



**Battery operation rechargable** 

Prepared for a rechargable battery operation



**LED** illumination

Cold, energy saving and especially long-life illumination



Parallel optical system

For stereomicroscopes, enables fatigue-proof working



Mains adapter

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



Incident illumination

For non-transparent objects



❖

USB 2.0

•

USB 3.0

Integrated scale In the eyepiece

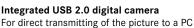
-230 V Power supply

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



Transmitting illumination

For transparent objects





Package shipment The time required to manufacture the



Fluorescence illumination

For stereomicroscopes





WF

product internally is shown in days in the pictogram.



FL-HB0

Fluorescence illumination

for compound microscopes With 100W mercury lamp and filter



**HDMI** digital camera

For direct transmitting of the picture to a display device

For direct transmitting of the picture to a PC

3 YEARS WARRANTY Warrantv The warranty period is shown in the

#### **Abbreviations**

C-Mount Adapter for the connection of a

camera to a trinocular microscope

FPS Frames per second H(S)WF High (Super) Wide Field

(Eyepiece with high eye point for wearers of glasses)

**LWD** Long Working Distance

SLR Kamera Single-Lens Reflex camera

N.A. **Numerical Aperture**  **SWF** Super Wide Field

pictogram.

(Field number at least Ø 23 mm

for 10x eyepiece)

Working Distance W.D.

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

## Your KERN specialist dealer: