

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.





Stage plate black



Stage plate white

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)					
00	Ð	Ö	ō			3 YEARS
BINO	LED	IL	τĹ	230 V	1 DAY	WARRANTY

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)

Stereomicroscope KERN OSF-4G



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

Model outfit		Mode	I KERN	Order number
		OSF 438	OSF 439	
	WF 5×/Ø 16,2 mm	00	00	OZB-A4101
Eyepieces (30,5 mm)	WF 10×/ø 20 mm	44	V	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)	✓	*	
Stage plate	Frosted glass/Ø 59,5 mm	✓	1	OZB-A4815
	Black-white / Ø 59,5 mm	✓	✓	OZB-A4816
External illumination	Please find the information about external illumination up	nits in the catalogue from	n page 87 and on o	ur website www.kern-sohn.con

 \checkmark = Included with delivery

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



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

concentration and the focusing of light

For the inspection with both eyes and



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ABBE

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 100W mercury lamp and filter

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)



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



Phase contrast unit For a higher contrast

Darkfield condenser/unit

For a higher contrast due to indirect





Polarising unit To polarise the light

Infinity system

Zoom magnification

fatigue-proof working

For stereomicroscopes

illumination







Parallel optical system For stereomicroscopes, enables

Infinity corrected optical system

П PARALLEL



Integrated scale In the eyepiece



USB 2.0

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USB 3.0

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HDMI

LWD

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



HDMI digital camera

display device

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

For direct transmitting of the picture to a



SD card For data storage



PC software To transfer the measurements from the device 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

BATT





Battery operation rechargable Prepared for a rechargable battery operation



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.

pictogram.

GB, AUS or USA on request. Package shipment 1 DAY



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

The warranty period is shown in the

WARRANTY

Long Working Distance SWF

N.A. Numerical Aperture SLR Kamera Single-Lens Reflex camera

Super Wide Field (Field number at least Ø 23 mm for 10× eyepiece) Working Distance W.D. WF Wide Field (Field number up to Ø22 mm for 10× eyepiece)

Your KERN specialist dealer:

