

Stereomicroscope KERN OSF-4G





Stage plate black



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 model outfit list

Scope of application

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

Applications/Samples

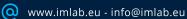
• Samples with focus on three-dimensional impression (depth, thickness), e.g. insects, seeds, circuit boards, components

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)					
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BINO	LED	IL	TL	BATT	230 V	1 DAY

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)









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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 distan	ce	57 mm	57 mm	57 mm	57 mm		

Model outfit		Model 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	44	OZB-A4102
	WF 15×/Ø 15 mm	00	00	OZB-A4103
	WF 20×/Ø 10 mm	00	00	OZB-A4104
	WF 10×/Ø 20 mm (reticule 0,1 mm)	0	0	OZB-A4151
Stand	Arm curved, incl. handle, with LED illumination (0,35 W transmitted + 1 W incident)	✓	✓	
Stage plate	Frosted glass/Ø 59,5 mm	✓	✓	OZB-A4815
	Black-white/Ø 59,5 mm	✓	✓	OZB-A4816
External Ilumination	Please find the information about external illumination ur	nits in the catalogue on p	age 83 and on the	internet

✓ = Included with delivery

O = Option









MICROSCOPES & REFRACTOMETERS 2023

KERN PICTOGRAMS



Ready for battery operation. The battery

type is specified for each device.

Battery operation rechargeable

Prepared for a rechargeable battery

Plug-in power supply 230V/50Hz in standard version for EU.

On request GB, AUS or USA version.

Integrated in microscope. 230V/50Hz standard EU. More standards e.g.

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

Integrated power supply unit

GB, AUS or USA on request.

Package shipment

the pictogram.

Battery operation

operation

BATT

■→)

RECHARGE

230 V



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



Darkfield condenser/unit

For a higher contrast due to indirect illumination



Polarising unit

To polarise the light

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Infinity system

Infinity corrected optical system



Zoom magnification For stereomicroscopes



Auto-focus

For automatic control of the focus level



Parallel optical system

For stereomicroscopes, enables fatigue-proof working



Integrated scale

In the eyepiece



SD card

For data storage



USB 2.0 digital camera

For direct transmitting of the picture to a PC



USB 3.0 digital camera

For direct transmitting of the picture to a PC



WIFI data interface:

For transmitting of the picture to a mobile display device



HDMI digital camera

For direct transmitting of the picture to a display device



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 in the pictogram cf. DIN EN 60529:2000-09, IEC 60529:1989+A1:1999+A2:2013

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

SWF Super Wide Field (Field number at least \$\phi\$ 23 mm for 10× eveniece)

W.D. Working Distance

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







