Stereomicroscope KERN OSF-4







EDUCATIONAL LINE

Stereo microscope with robust, ergonomic design, ideal for workshops, schools and training

Features

360°

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LED

- The KERN OSF-4 stands out through its ergonomic construction and its superb arm curved stand. This ensures precise adjustment and focusing of your sample.
- The LED reflected and transmitted illumination included as standard guarantees the very best illumination of your sample.
- As well as very good optical characteristics, its flat working surface means that it offers the highest level of convenience in this class.
- A turnable objective with up to three predefined magnifications is available to make your working procedures quicker and more efficient.
- The eyepieces are fixed in the eyepiece tube, to stop them getting damaged or lost.

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230 V

- Depending on the model, the arm curved stand has a coarse focusing knob (OSF 430, OSF 431) or a coarse and fine focusing knob (OSF 434, OSF 435). 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-dimesnional impression (depth, thickness), e.g. insects, seeds, circuit boards, components

Technical data

- Optical system: Greenough optics
- Tube 45° inclined
- Interpupillary distance: 55 75 mm
- Diopter adjustment: One-sided
- Overall dimensions W×D×H
 230×140×340 mm
- Net weight approx. 2,5 kg

Model	Standard configuration							
	Tube	Eyepiece	Field of view	Objective	Stand	Illumination		
KERN			mm					
OSF 430	Binocular	WF 10×/Ø 20 mm	Ø 20	1×/3×	Arm curved	1 W LED (incident); 0,21 W LED (transmitted)		
OSF 431	Binocular	WF 10×/ø 20 mm	Ø 20	2×/4×	Arm curved	1 W LED (incident); 0,21 W LED (transmitted)		
OSF 434	Binocular	WF 10×/Ø 20 mm	Ø 20	1×/2×/3×	Arm curved, fine focus	1 W LED (incident); 0,21 W LED (transmitted)		
OSF 435	Binocular	WF 10×/Ø 20 mm	Ø 20	1×/2×/4×	Arm curved, fine focus	1 W LED (incident); 0,21 W LED (transmitted)		

VARRANT

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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		
WF 10×	Total magnification	10×	20×	30×	40×		
WF 10^	Field of view mm	ø 20	ø 10	ø 6,7	Ø 5		
WF 15×	Total magnification	15×	30×	45×	60×		
WF 15^	Field of view mm	Ø 15	ø 7,5	Ø 5	Ø 3,7		
WF 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		100 mm	100 mm	100 mm	100 mm		

Model outfit			Mode	I KERN	Order number	
		OSF 430	OSF 431	OSF 434	OSF 435	
Eyepieces (30,5 mm)	WF 5×/Ø 16,2 mm	00	00	00	00	OZB-A4101
	WF 10×/Ø 20 mm	44	11	11	11	OZB-A4102
	WF 15×/Ø 15 mm	00	00	00	00	OZB-A4103
	WF 20×/Ø 10 mm	00	00	00	00	OZB-A4104
Auxiliary objective	Soldering protection lens	~	~	~	~	OZB-A4250
	Arm curved, with LED illumination (0,21 W transmitted + 1 W incident)	~	~			
Stand	Arm curved, incl. fine adjustment, with LED illumination (0,21 W transmitted + 1 W incident)			~	435 ○○ OZB-A ○○ OZB-A ○○ OZB-A ○○ OZB-A ○○ OZB-A ✓ OZB-A	
0	Frosted glass/Ø 74,5 mm	×	✓	1	1	OZB-A4813
Stage plate	Black-white/Ø 74,5 mm	1	✓	✓	1	OZB-A4814
External illumination	Please find the information about external illumination units	in the catal	ogue from	page 81 a	and on our	website www.kern-sohn.com

 \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



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



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HAL

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

illumination





Zoom magnification For stereomicroscopes



Parallel optical system For stereomicroscopes, enables fatigue-proof working

Infinity corrected optical system



Integrated scale In the eyepiece

HDMI digital camera

SLR Kamera Single-Lens Reflex camera

display device



USB 2.0

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HDMI

LWD

N.A.

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

For direct transmitting of the picture to a



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



SD card For data storage

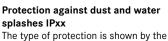


PC software To transfer the measurements from the device to a PC.



Automatic temperature compesation For measurements between 10 °C and 30 °C





pictogram. **Battery operation**



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



Battery operation rechargable Prepared for a rechargable battery



Mains adapter 230V/50Hz in standard version for EU.



Power supply

pictogram.

operation

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

On request GB, AUS or USA version.

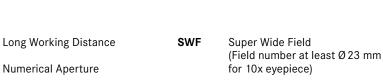


Package shipment The time required to manufacture the

product internally is shown in days in the pictogram. Warrantv

The warranty period is shown in the

3YEARS WARRANTY



WF

W.D. Working Distance	e
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Wide Field (Field number up to Ø22 mm for 10x eyepiece)

Your KERN specialist dealer:

