KERN OPTICS CATALOGUE 2019

KERN

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	0					
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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×	
WF 5×	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×	
VVF 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	KERN	Order number	
		OSF 438	OSF 439		
	WF 5×/Ø 16,2 mm	00	00	OZB-A4101	
Eyepieces	WF 10×/ø 20 mm	44	11	OZB-A4102	
(30,5 mm)	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)	*	✓		
0	Frosted glass/Ø 59,5 mm	*	✓	OZB-A4815	
Stage plate	Black-white/Ø 59,5 mm	*	✓	OZB-A4816	
External illumination	Please find the information about external illumination units in	the catalogue on p	age 82 and on the i	nternet	

Included with delivery

O = Option

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360° rotatable Q microscope head 360°



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 100W mercury lamp and filter



Fluorescence illumination C for compound microscopes FL-LED 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



Infinity system Infinity corrected optical system

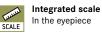


PARALLEL

Zoom magnification For stereomicroscopes



Parallel optical system For stereomicroscopes, enables fatigue-proof working



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 USB 3.0



-6

230 V

Package shipment

Power supply

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

Integrated in balance. 230V/50Hz

standard EU. More standards e.g.

GB, AUS or USA on request.

Abbreviations

C-Mount	Adapter for the connection of a camera to a trinocular microscope	LWD	Long Working Distance	SWF	Super Wide Field (Field number at least Ø23 mm for 10× eyepiece)
FPS	Frames per second	N.A.	Numerical Aperture	W.D.	Working Distance
H(S)WF	High (Super) Wide Field (Eyepiece with high eye point for wearers of glasses)	SLR camera	Single-Lens Reflex camera	WF	Wide Field (Field number up to Ø 22 mm for 10× eyepiece)

Your KERN specialist dealer:





WLAN data interface For transmitting of the picture to a mobile display device

HDMI

device

HDMI digital camera For direct transmitting of the picture to a display

Ø
SOFTWARE

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

AUTO ATC

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.

..... BATT



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



Battery operation rechargable Prepared for a rechargable battery operation



