



OSF 430/431



OSF 434/435

EDUCATIONAL LINE

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

Features

- 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.
- 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-dimensional 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

STANDARD



Model	Standard configuration						
	Tube	Eyepiece	Field of view mm	Objective	Stand	Illumination	
KERN							
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)	↓

ONLY WHILE STOCKS LAST

Price reduction

Eyepiece	Specifications – Objectives				
	Magnification	1×	2×	3×	4×
WF 5×	Total magnification	5×	10×	15×	20×
	Field of view mm	∅ 20	∅ 10	∅ 6,7	∅ 5
WF 10×	Total magnification	10×	20×	30×	40×
	Field of view mm	∅ 20	∅ 10	∅ 6,7	∅ 5
WF 15×	Total magnification	15×	30×	45×	60×
	Field of view mm	∅ 15	∅ 7,5	∅ 5	∅ 3,7
WF 20×	Total magnification	20×	40×	60×	80×
	Field of view mm	∅ 10	∅ 6,5	∅ 4,3	∅ 3,2
Working distance		100 mm	100 mm	100 mm	100 mm

Model outfit		Model KERN				Order number	
		OSF 430	OSF 431	OSF 434	OSF 435		
Eyepieces (30,5 mm)	WF 5×/∅ 16,2 mm	○	○	○	○	OZB-A4101	
	WF 10×/∅ 20 mm	✓	✓	✓	✓	OZB-A4102	
	WF 15×/∅ 15 mm	○	○	○	○	OZB-A4103	
	WF 20×/∅ 10 mm	○	○	○	○	OZB-A4104	
Auxiliary objective	Soldering protection lens	✓	✓	✓	✓	OZB-A4250	
Stand	Arm curved, with LED illumination (0,21 W transmitted + 1 W incident)	✓	✓				
	Arm curved, incl. fine adjustment, with LED illumination (0,21 W transmitted + 1 W incident)			✓	✓		
Stage plate	Frosted glass/∅ 74,5 mm	✓	✓	✓	✓	OZB-A4813	
	Black-white/∅ 74,5 mm	✓	✓	✓	✓	OZB-A4814	
External illumination	Please find the information about external illumination units in the catalogue from page 87 and on our website www.kern-sohn.com						

✓ = Included with delivery

○ = Option

 360°	360° rotatable microscope head	 FL-LED	Fluorescence illumination for compound microscopes With 3 W LED illumination and filter	 SD	SD card For data storage
 MONO	Monocular Microscope For the inspection with one eye	 PH	Phase contrast unit For a higher contrast	 SOFTWARE	PC software To transfer the measurements from the device to a PC.
 BINO	Binocular Microscope For the inspection with both eyes	 DF	Darkfield condenser/unit For a higher contrast due to indirect illumination	 AUTO ATC	Automatic temperature compensation For measurements between 10 °C and 30 °C
 TRINO	Trinocular Microscope For the inspection with both eyes and the additional option for the connection of a camera	 POLAR	Polarising unit To polarise the light	 IP	Protection against dust and water splashes IPxx The type of protection is shown by the pictogram.
 ABBE	Abbe Condenser With high numerical aperture for the concentration and the focusing of light	 INFINITY	Infinity system Infinity corrected optical system	 BATT	Battery operation Ready for battery operation. The battery type is specified for each device.
 HAL	Halogen illumination For pictures bright and rich in contrast	 ZOOM	Zoom magnification For stereomicroscopes	 RECHARGE	Battery operation rechargeable Prepared for a rechargeable battery operation
 LED	LED illumination Cold, energy saving and especially long-life illumination	 PARALLEL	Parallel optical system For stereomicroscopes, enables fatigue-proof working	 230 V	Mains adapter 230V/50Hz in standard version for EU. On request GB, AUS or USA version.
 IL	Incident illumination For non-transparent objects	 SCALE	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.
 TL	Transmitting illumination For transparent objects	 USB 2.0	USB 2.0 digital camera For direct transmitting of the picture to a PC	 1 DAY	Package shipment The time required to manufacture the product internally is shown in days in the pictogram.
 FL	Fluorescence illumination For stereomicroscopes	 USB 3.0	USB 3.0 digital camera For direct transmitting of the picture to a PC	 3 YEARS WARRANTY	Warranty The warranty period is shown in the pictogram.
 FL-HBO	Fluorescence illumination for compound microscopes With 100 W mercury lamp and filter	 HDMI	HDMI digital camera For direct transmitting of the picture to a display device		

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 \varnothing 23 mm for 10 \times 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 Kamera	Single-Lens Reflex camera	WF	Wide Field (Field number up to \varnothing 22 mm for 10 \times eyepiece)

Your KERN specialist dealer: