

OSF 430



OSF 435

EDUCATIONAL LINE

The small robust model for school, training establishment or workshops

Features

- The KERN OSF-4 are very robust, stable and easy to use stereo microscopes.
- Their mechanical stands makes them particularly stable.
- Models OSF 434 and OSF 435 are provided with 3 objectives each and an additional fine focussing knob for precise focussing.
- In addition to its very good optical properties, its large working surface offers the best possible ease of use in this class.
- This model is optimally suited to schools, workshops and training establishments.
- The model-dependent LED incident and transmitted illumination unit reliably ensures good illumination at all times.
- The multitude of objective combinations and eyepieces are all you can wish for.
- The eyepieces are fixed in the tube to protect them against loss or damage.
- One of the central features of this variable and simultaneously robust series of microscopes is the stable and precisely adjustable mechanism. This is underlined by the functional and ergonomic design.

Technical data

- Optical system: Greenough
- Tube: 45° inclined
- Interpupillary distance: 55 – 75 mm
- Diopter adjustment (one-sided)
- Packing dimensions WxDxH 290x210x380 mm
- Net weight approx. 3 kg

Please find detailed information in the following charts.

STANDARD



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

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Eyepiece	Specifications – Objectives				
	Magnification	**1x**	**2x**	**3x**	**4x**
WF 5x	Total magnification	5x	10x	15x	20x
	Field of view mm	Ø 20	Ø 10	Ø 6,7	Ø 5
WF 10x	Total magnification	10x	20x	30x	40x
	Field of view mm	Ø 20	Ø 10	Ø 6,7	Ø 5
WF 15x	Total magnification	15x	30x	45x	60x
	Field of view mm	Ø 15	Ø 7,5	Ø 5	Ø 3,7
WF 20x	Total magnification	20x	40x	60x	80x
	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		Model KERN				Order number	
		OSF 430	**OSF 431**	**OSF 434**	**OSF 435**		
Eyepieces	WF 5x / Ø 16,2 mm	oo	oo	oo	oo	OZB-A4101	
	WF 10x / Ø 20 mm	●●	●●	●●	●●	OZB-A4102	
	WF 15x / Ø 15 mm	oo	oo	oo	oo	OZB-A4103	
	WF 20x / Ø 10 mm	oo	oo	oo	oo	OZB-A4104	
Stands	Arm curved, with LED illumination (0,21W transmitting + 1W incident)	●	●				
	Arm curved, incl. fine adjustment, with LED illumination (0,21W transmitting + 1W incident)			●	●		
Stage plate	Frosted glass / Ø 74,5 mm	●	●	●	●	OZB-A4813	
	Black-white / Ø 74,5 mm	●	●	●	●	OZB-A4814	
External illumination	Please find the information about external illumination units in the catalogue from page 68 and on the internet						

● = Standard configuration o = Option

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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



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



Polarising unit
To polarise the light



Infinity system
Infinity corrected optical system



Zoom magnification
For stereomicroscopes



Parallel optical system
For stereomicroscopes, enables fatigue-proof working



Integrated scale
In the eyepiece



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



Integrated USB 3.0 digital camera
For direct transmitting of the picture 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 pictogram.



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



Rechargeable battery pack
Rechargeable set.



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. GB, AUS or USA on request.



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



Warranty
The warranty period is shown in the pictogram.

Abbreviations

C-Mount Adapter for the connection of a camera to a trinocular microscope

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 Kamera Single-Lens Reflex camera

SWF Super Wide Field (Field number at least Ø 23 mm for 10x eyepiece)

W.D. Working Distance

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

Your KERN specialist dealer: