



Stage plate black



Stage plate white

**EDUCATIONAL LINE**

The robust and practical model for school, training establishment, workshops and laboratory

**Features**

- The KERN OSF 438 and OSF 439 is a very practical and easy to use stereo microscope.
- This microscope can be safely and easily moved around thanks to its built-in handle.
- Its mechanical stand makes it particularly stable.
- In addition to the very good optical properties, its ergonomically designed working surface offers the best possible ease of use in this class.
- This model is optimally suited to schools,

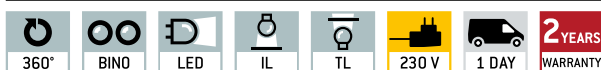
- workshops and training establishments.
- A strong LED incident and transmitted illumination unit reliably delivers the necessary light.
- The multitude of objective combinations and eyepieces are all you can wish for.
- The eyepieces are fixed in the tube to protect them against loss or damage.

**Technical data**

- Optical system: Greenough
- Brightness adjustable
- Tube: 45° inclined
- Interpupillary distance: 55 – 75 mm
- Diopter adjustment (one-sided)
- Packing dimensions WxDxH 290x225x340 mm
- Net weight approx. 2,5 kg

Please find detailed information in the following charts.

STANDARD































Model	Standard configuration					
	Tube	Eyepiece	Field of view mm	Objective	Stand	Illumination
<b>KERN OSF 438</b>	Binocular	WF 10x Ø 20 mm	Ø 20	1x / 2x / 3x	Arm curved	1W LED (incident); 0,35W LED (transmitting)
<b>OSF 439</b>	Binocular	WF 10x Ø 20 mm	Ø 20	1x / 2x / 4x	Arm curved	1W LED (incident); 0,35W LED (transmitting)

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		57 mm	57 mm	57 mm	57 mm

Model outfit		Model KERN		Order number	
		OSF 438	OSF 439		
Eyepieces	WF 5x / Ø 16,2 mm	○○	○○	OZB-A4101	
	WF 10x / Ø 20 mm	●●	●●	OZB-A4102	
	WF 15x / Ø 15 mm	○○	○○	OZB-A4103	
	WF 20x / Ø 10 mm	○○	○○	OZB-A4104	
Stands	Arm curved, incl. handle, with LED illumination (0,35W transmitting + 1W incident)	●	●		
Stage plate	Frosted glass / Ø 59,5 mm	●	●	OZB-A4815	
	Black-white / Ø 59,5 mm	●	●	OZB-A4816	
External illumination	Please find the information about external illumination units in the catalogue from page 68 and on our website <a href="http://www.kern-sohn.com">www.kern-sohn.com</a>				

● = Standard configuration

○ = Option

 360°	<b>360° rotatable microscope head</b>	 FL-HB0	<b>Fluorescence illumination for compound microscopes</b> With 100 W mercury lamp and filter	 AUTO ATC	<b>Automatic temperature compensation</b> For measurements between 10 °C and 30 °C
 MONO	<b>Monocular Microscope</b> For the inspection with one eye	 FL-LED	<b>Fluorescence illumination for compound microscopes</b> With 3 W LED illumination and filter	 IP	<b>Protection against dust and water splashes IPxx</b> The type of protection is shown by the pictogram.
 BINO	<b>Binocular Microscope</b> For the inspection with both eyes	 PH	<b>Phase contrast unit</b> For a higher contrast	 BATT	<b>Battery operation</b> Ready for battery operation. The battery type is specified for each device.
 TRINO	<b>Trinocular Microscope</b> For the inspection with both eyes and the additional option for the connection of a camera	 POLAR	<b>Polarising unit</b> To polarise the light	 ACCU	<b>Rechargeable battery pack</b> Rechargeable set.
 ABBE	<b>Abbe Condenser</b> With high numerical aperture for the concentration and the focusing of light	 INFINITY	<b>Infinity system</b> Infinity corrected optical system	 230 V	<b>Mains adapter</b> 230V/50Hz in standard version for EU. On request GB, AUS or USA version.
 HAL	<b>Halogen illumination</b> For pictures bright and rich in contrast	 ZOOM	<b>Zoom magnification</b> For stereomicroscopes	 230 V	<b>Power supply</b> Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, AUS or USA on request.
 LED	<b>LED illumination</b> Cold, energy saving and especially long-life illumination	 PARALLEL	<b>Parallel optical system</b> For stereomicroscopes, enables fatigue-proof working	 DAYS	<b>Package shipment</b> The time required to manufacture the product internally is shown in days in the pictogram.
 IL	<b>Incident illumination</b> For non-transparent objects	 SCALE	<b>Integrated scale</b> In the eyepiece	 3 YEARS WARRANTY	<b>Warranty</b> The warranty period is shown in the pictogram.
 TL	<b>Transmitting illumination</b> For transparent objects	 USB 2.0	<b>Integrated USB 2.0 digital camera</b> For direct transmitting of the picture to a PC		
 FL	<b>Fluorescence illumination</b> For stereomicroscopes	 USB 3.0	<b>Integrated USB 3.0 digital camera</b> For direct transmitting of the picture to a PC		

## Abbreviations

<b>C-Mount</b>	Adapter for the connection of a camera to a trinocular microscope	<b>N.A.</b>	Numerical Aperture	<b>W.D.</b>	Working Distance
<b>H(S)WF</b>	High (Super) Wide Field (Eyepiece with high eye point for wearers of glasses)	<b>SLR Kamera</b>	Single-Lens Reflex camera	<b>WF</b>	Wide Field (Field number up to Ø 22 mm for 10x eyepiece)
<b>LWD</b>	Long Working Distance	<b>SWF</b>	Super Wide Field (Field number at least Ø 23 mm for 10x eyepiece)		

## Your KERN specialist dealer: