



Illumination unit with filter disc



Stage and objectives

## LAB LINE MET

The metallurgical model for the experienced user

### Features

- The KERN OKM is an excellent and stable metallurgical reflecting light microscope.
- It is suitable for all common routine applications, producing excellent images thanks to its strong 30 W halogen illumination.
- These microscopes are equipped with infinity corrected, plan achromatic objectives as standard.
- A trinocular head is optionally available, allowing a camera to be fitted.
- A nosepiece for up to four objectives and a large stage are provided as standard.
- The following optional accessories are available: A variety of lenses, LWD objectives for long working distances, plus a complete polarisation kit and more.
- One of the central features of this variable and simultaneously robust series of microscopes is the stable and precisely adjustable mechanism.

### Technical data

- Eyepieces: WF 10x18 mm
- Objectives: 5x / 10x and LWD 20x / 40x
- Overall dimensions  
WxDxH 240x170x400 mm
- Net weight basic configuration approx. 8 kg

Please find detailed information in the following charts.

#### STANDARD



#### OPTION































Model	Standard configuration		
	Optical system	Tube	Illumination
<b>KERN OKM 172</b>	Infinity	Binocular	6V / 30W Halogen (reflecting)

Model outfit		Model KERN	Order number	
		OKM 172		
Eyepieces	WF 10x / Ø 18 mm	●	OBB-A1347	
	WF 10x / Ø 18 mm (reticule 0,1 mm) (non-adjustable)	●	OBB-A1349	
	WF 5x / Ø 20 mm	○	OBB-A1355	
	WF 12,5x / Ø 14 mm	○	OBB-A1353	
	WF 16x / Ø 13 mm	○	OBB-A1354	
Infinity Plan achromatic objectives (no cover glass)	5x / 0,11 W.D. 12,10 mm	●	OBB-A1268	
	10x / 0,25 W.D. 4,75 mm	●	OBB-A1244	
	20x / 0,40 (spring) W.D. 2,14 mm	○	OBB-A1251	
	40x / 0,65 (spring) W.D. 0,45 mm	○	OBB-A1258	
Infinity Plan achromatic objectives (no cover glass) for long working distance	20x / 0,40 (spring) W.D. 8,35 mm	●	OBB-A1252	
	40x / 0,65 (spring) W.D. 3,90 mm	●	OBB-A1259	
	50x / 0,70 (spring) W.D. 1,95 mm	○	OBB-A1266	
	80x / 0,80 (spring) W.D. 0,85 mm	○	OBB-A1271	
Binocular tube	<ul style="list-style-type: none"> <li>• Siedentopf, 30° inclined, 360° rotatable</li> <li>• Interpupillary distance: 50 – 75 mm</li> <li>• With diopter adjustment (one-sided)</li> </ul>	●	OBB-A1130	
Trinocular tube	<ul style="list-style-type: none"> <li>• Siedentopf, 30° inclined, 360° rotatable</li> <li>• Interpupillary distance: 50 – 75 mm</li> <li>• Light distribution: 80:20</li> <li>• With diopter adjustment (one-sided)</li> </ul>	○	OBB-A1346	
Nosepiece	Quadplex	●		
Mechanical stage	<ul style="list-style-type: none"> <li>• Stage size: WxD 200x140 mm</li> <li>• Travel: 76x52 mm</li> <li>• Coaxial coarse and fine focusing knobs</li> </ul>	●		
Illumination	6V / 30W Halogen (reflecting)	●	OBB-A1205	
Filter unit	5-filter unit (Blue, Green, Amber, Grey, Empty)	●		
Polarising unit	Analyser / Polariser	○	OBB-A1287	
C-Mount	1x	○	OBB-A1142	
	0,47x (focus adjustable)	○	OBB-A1135	

● = Standard configuration

○ = Option

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