



Illumination unit with filter disc



Stage and objectives

LAB LINE MET

The metallurgical model for the experienced user

Features

- The KERN OKM-1 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



360°



BINO



HAL



INFINITY



SCALE



230 V



1 DAY



3 YEARS
WARRANTY

OPTION



TRINO



POLAR

Model	Standard configuration			
	Optical system	Tube	Illumination	
KERN OKM 172	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	• Siedentopf, 30° inclined, 360° rotatable • Interpupillary distance: 50 – 75 mm • With diopter adjustment (one-sided)	●	OBB-A1130	
Trinocular tube	• Siedentopf, 30° inclined, 360° rotatable • Interpupillary distance: 50 – 75 mm • Light distribution: 80:20 • With diopter adjustment (one-sided)	○	OBB-A1346	
Nosepiece	Quadplex	●		
Mechanical stage	• Stage size: WxD 200x140 mm • Travel: 76x52 mm • Coaxial coarse and fine focusing knobs	●		
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

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

Abbreviations

C-Mount	Adapter for the connection of a camera to a trinocular microscope	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 Ø 22 mm for 10x eyepiece)
LWD	Long Working Distance	SWF	Super Wide Field (Field number at least Ø 23 mm for 10x eyepiece)		

Your KERN specialist dealer: