Metallurgical microscope KERN OKM-1



LAB LINE MET The metallurgical model for the experienced user

Features

STANDARD

KERN OKM 172

- 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.

Optical system

Infinity

- 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

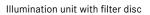
Please find detailed information in the following charts.

Č 360°	OO BINO	D HAL	CO INFINITY	SCALE	E 230 V	1 DAY	3 _{years} warranty	TRINO	POLAR				
Model			Standard configuration										

Tube

Binocular

O P T I C S





Stage and objectives

Illumination

6V / 30W Halogen (reflecting)

OPTION

Metallurgical microscope KERN OKM-1



Model outfit		Model KERN	Order number	
	_	OKM 172		
	WF 10x / Ø 18 mm	•	OBB-A1347	
	WF 10x / Ø 18 mm (reticule 0,1 mm) (non-adjustable)	•	OBB-A1349	
Eyepieces	WF 5x / Ø 20 mm	0	OBB-A1355	
	WF 12,5x / Ø 14 mm	0	OBB-A1353	
	WF 16x / Ø 13 mm	0	OBB-A1354	
	5x / 0,11 W.D. 12,10 mm	•	OBB-A1268	
Infinity Plan achromatic	10x / 0,25 W.D. 4,75 mm	•	OBB-A1244	
objectives (no cover glass)	20x / 0,40 (spring) W.D. 2,14 mm	0	OBB-A1251	
	40x / 0,65 (spring) W.D. 0,45 mm	0	OBB-A1258	
Infinity	20x / 0,40 (spring) W.D. 8,35 mm	•	OBB-A1252	
Plan achromatic objectives	40x / 0,65 (spring) W.D. 3,90 mm	•	OBB-A1259	
(no cover glass) for long working	50x / 0,70 (spring) W.D. 1,95 mm	0	OBB-A1266	
distance	80x / 0,80 (spring) W.D. 0,85 mm	0	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) 	o	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	0	OBB-A1287	
	1x	0	OBB-A1142	
C-Mount	0,47x (focus adjustable)	0	OBB-A1135	

• = Standard configuration

o = Option

KERN Pictograms:



360° rotatable microscope head



Monocular Microscope For the inspection with one eye



Binocular Microscope For the inspection with both eyes

Trinocular Microscope



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ABBE

the additional option for the connection of a camera Abbe Condenser With high numerical aperture for the

For the inspection with both eyes and



Halogen illumination For pictures bright and rich in contrast

concentration and the focusing of light



LED illumination Cold, energy saving and especially long-life illumination



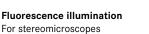
Incident illumination For non-transparent objects



Transmitting illumination For transparent objects



Fluorescence illumination





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

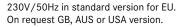
Ready for battery operation. The battery type is specified for each device.



Rechargeable battery pack Rechargeable set.



Mains adapter





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.



DAYS

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

Your KERN specialist dealer:

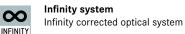
N.A.	Numerical Aperture	W.D.	Working Distance	
	Single-Lens Reflex camera	WF	Wide Field (Field number up to Ø 22 mm for 10x evepiece)	
SWF	Super Wide Field (Field number at least Ø23 mm for 10x eyepiece)			



Polarising unit

Phase contrast unit

For a higher contrast



Fluorescence illumination

for compound microscopes

Fluorescence illumination

for compound microscopes

With 100W mercury lamp and filter

With 3W LED illumination and filter



FL-HBO

C

FL-LED

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PH

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POLAR

Zoom magnification For stereomicroscopes



Parallel optical system For stereomicroscopes, enables fatigue-proof working

Integrated scale Lunn In the eyepiece SCALE





For direct transmitting of the picture to a PC



Integrated USB 3.0 digital camera