





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





















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

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 distance	50x / 0,70 (spring) W.D. 1,95 mm	0	OBB-A1266	
	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)	0	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	
		= Standar	d configuration	O = Optio

= Standard configuration

o = Option

KERN Pictograms:





360° rotatable microscope head



Fluorescence illumination for compound microscopes With 100 W mercury lamp and filter



Automatic temperature compesation

For measurements between 10 °C and 30 °C



Monocular Microscope

For the inspection with one eye



Fluorescence illumination for compound microscopes With 3 W LED illumination and filter



Protection against dust and water splashes IPxx

The type of protection is shown by the pictogram.



Binocular Microscope

For the inspection with both eyes



Phase contrast unit

For a higher contrast



Battery operation

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



Trinocular Microscope

For the inspection with both eyes and the additional option for the connection of a camera



Polarising unit

To polarise the light



Rechargeable battery pack

Rechargeable set.



Abbe Condenser

With high numerical aperture for the concentration and the focusing of light



Infinity system

Infinity corrected optical system



Mains adapter

230V/50Hz in standard version for EU. On request GB, AUS or USA version.



Halogen illumination

For pictures bright and rich in contrast



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 illumination

Cold, energy saving and especially long-life illumination



Parallel optical system

For stereomicroscopes, enables fatigue-proof working



Package shipment

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



Incident illumination

For non-transparent objects



Integrated scale

In the eyepiece



Warranty

The warranty period is shown in the pictogram.



Transmitting illumination

For transparent objects



Integrated USB 2.0 digital camera

For direct transmitting of the picture to a PC



Fluorescence illumination

For stereomicroscopes



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

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: