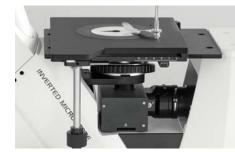
Metallurgical inverted microscope KERN OLM-1

KERN



Specimen stage and illumination unit



Analyser/Polariser

LAB LINE MET

The inverted metallurgical microscope for professional applications

Features

- The KERN OLM range is part of the range of inverted microscopes and stands out through its design which is ergonomic, robust and extremely stable. This range, with its large working distance is, for example, particularly suitable for surface quality testing of raw materials and finished products in industry
- Strong and continuously adjustable
 50W halogen illumination unit ensures the optimum illumination of the materials to be tested
- As standard, the OLM range is fitted with a trinocular eyepiece tube
- A simple polarising unit (analyser and polariser) is included with delivery

- A large mechanical stage is included with delivery as standard. The coarse and fine focusing knob on both sides guarantees optimal adjustment and focusing
- Further options such as, for example, a large selection of objectives can be integrated as accessories
- A dust cover as well as user instructions are included with the delivery
- Please find detailed information in the following model outfit list

Scope of application

Metallurgy, material testing, quality assurance

Applications/Samples

• Opaque and thick samples, workpieces (surfaces, fold lines, coatings)

Technical data

- Infinity optical system
- Quintuple nosepiece
- Siedentopf 30° inclined
- Diopter adjustment: Both-sided
- Overall dimensions W×D×H
 271×379×747 mm
- Net weight approx. 12,5 kg

STANDARD							
	$\boldsymbol{\Delta}$	Ð	-	∞	hunn	 E	.
TRINO	ABBE	HAL	POLAR	INFINITY	SCALE	230 V	1 DAY

Model	Standard configuration				
KERN	Tube	Eyepiece	Objective quality	Objectives	Illumination
OLM 171	Trinocular	HWF 10×/Ø 22 mm	Infinity Plan	LWD5×/LWD10×/ LWD20×/LWD50×	50 W Halogen (incident)



Metallurgical inverted microscope KERN OLM-1

Model outfit		Model KERN	Order number	
		OLM 171		
Eyepieces	HWF 10×/Ø 22 mm (adjustable)	✓	OBB-A1491	
(30 mm)	HWF 10×/Ø 22 mm (reticule 0,1 mm) (adjustable)	✓	OBB-A1523	
Infinity Plan achromatic objectives for long working distance	5×/0,13 W.D. 16,04 mm	✓	OBB-A1525	
	10×/0,25 W.D. 18,48 mm	✓	OBB-A1526	
	20×/0,40 W.D. 8,35 mm	√	OBB-A1527	
	50×/0,70 (spring-loaded) W.D. 1,95 mm	√	OBB-A1528	
	80×/0,80 (spring-loaded) W.D. 0,85 mm	0	OBB-A1530	
	100×/0,85 (dry) W.D. 3,00 mm	0	OBB-A1531	
Trinocular tube	30° inclined Interpupillary distance 48-76 mm Light distribution 100:0 Diopter adjustment: Both-sided	*		
Mechanical stage	Stage size W×D 210×180 mm Travel 50×50 mm Coaxial coarse and fine focusing knobs	*		
Illumination	50 W Halogen spare bulb (incident)	✓	OBB-A1207	
Reflected illumination unit	Polarising unit (Incl. analyser, polariser and colour filter slide)	*		
Colour filters for transmitted illumination	Blue	✓	OBB-A1510	
	Green	0	OBB-A1511	
	Yellow	0	OBB-A1512	
	Grey	0	OBB-A1513	
	0,5×	0	OBB-A1515	
C-Mount	1×	0	OBB-A1514	

 \checkmark = Included with delivery

O = Option

KERN OPTICS CATALOGUE 2022

Pictograms



360° rotatable microscope head



Monocular Microscope For the inspection with one eye



Binocular Microscope For the inspection with both eyes

Trinocular Microscope



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



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



Halogen illumination For pictures bright and rich in contrast



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



Incident illumination For non-transparent objects



Transmitting illumination For transparent objects



Fluorescence illumination For stereomicroscopes



Fluorescence illumination for compound microscopes

With 100W mercury lamp and filter



Fluorescence illumination C for compound microscopes FL-LED With 3 W LED illumination and filter



Phase contrast unit For a higher contrast



Darkfield condenser/unit For a higher contrast due to indirect illumination



Polarising unit To polarise the light



Infinity system Infinity corrected optical system



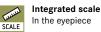
Zoom magnification For stereomicroscopes



Auto-focus For automatic control of the focus level



Parallel optical system For stereomicroscopes, enables fatigue-proof working



SD card For data storage



USB 2.0 digital camera For direct transmitting of the picture to a PC USB 2.0



USB 3.0 digital camera For direct transmitting of the picture to a PC



WLAN data interface For transmitting of the picture to a



mobile display device



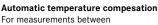
HDMI digital camera For direct transmitting of the picture to a display

SOFTWARE

PC software To transfer the measurements from the device to a PC

device

AUTO ATC



For measurements between 10 °C and 30 °C



Protection against dust and water splashes IPxx: The type of protection is shown in the pictogram cf. DIN EN 60529:2000-09, IEC 60529:1989+A1:1999+A2:2013



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



Battery operation rechargeable Prepared for a rechargeable battery



Plug-in power supply

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



Integrated power supply unit

Integrated in microscope. 230V/50Hz standard EU. More standards e.g. GB, AUS or USA on request.

Package shipment

The time required to manufacture the 1 DAY product internally is shown in days in the pictogram.

Abbreviations

C-Mount	Adapter for the connection of a camera to a trinocular microscope	LWD	Long Working Distance	SWF	Super Wide Field (Field number at least Ø 23 mm for 10× eyepiece)
FPS	Frames per second	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 camera	Single-Lens Reflex camera	WF	Wide Field (Field number up to Ø 22 mm for 10× eyepiece)

Your KERN specialist dealer:

