

## PRODUCT BROCHURE

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# OPTICS OLM 170

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ENGLISH



The inverted metallurgical microscope for professional applications

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## PRODUCT SHOWCASE



ENGLISH

## DESCRIPTION

- 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 5 W LED 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.
- The compact design of the OLM 170 means that handling is even easier and more flexible for the user, so this model can also be considered for mobile applications. In the same way, the pre-installed C-Mount Adapter (on the back of the microscope) also makes operation easier, as connecting the camera is even easier
- 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

## SPECIFICATIONS

### Article codes, product groups & Status information

Model article-code	OLM 170
Model-Serie	OLM-1

Assortment	Optics
Product Type	Microscopes
Product group	Metallurgical microscopes
Product usage type	Main article
EAN code (Model)	4045761356665

Customs tariff number 90118000

CE Label yes

## Technical data - Primary

Optical System	Infinity
Tube	Trinocular
Eyepiece	Eyepiece HWF 10 x / Ø 20mm with anti-fungus, high eye point
Standard Objectives	10x;20x;50x;5x
Objective quality	Infinity Plan
Illumination	5W LED (Auflicht)

## Technical data - Construction

System	Inverse
Tube type	Butterfly
Tube angle	45°
Nosepiece positions	4
Eye distance (max)	75 mm
Eye distance (min)	48 mm
Adjustable dioptrre	one-sided
Focusing mechanics	coaxial coarse and fine drive
Fine drive minimum	0.002 mm
Table size	155×180 mm
Table traveling distance	75×40 mm
Aperture diaphragm	yes
Condenser Type	Standard
Condenser mounting	fixed
Dimensions (W×D×H)	470×240×330 mm

## Technical data - Power supply

Power supply kind	Power adapter
Input Voltage	100 V - 240 V, 50 / 60 Hz
Power Plug	Inside plus, outside minus
Protection Class	Class III - Low voltage
Cable attachment	removable

## Technical data - Environmental conditions

Storage Temp Min	-5 °C
Stotage Temp Max	40 °C

## Technical data - Packing & Shipping

Dimensions packaging (W×D×H)	500×420×300 mm
Gross weight	9 kg
Net weight	7 kg
Shipping method	Parcel service
Packaging component - by weight - cardboard	1130 g
Packaging component - by weight - plastics	36 g
Packaging component - by weight - styrofoam	770 g
Delivery time	1 d

## Technical data - Verification

WEEE	yes
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## Technical data - Illumination

Illumination directions	Reflected light
Incident light type	LED
Incident light intensity	5W
Dimmable	Incident light

## FUNCTIONS

Standard
       

## ACCESSORIES

Model	Description
OBB-A1530	Microscope Objective KERN OBB-A1530
OBB-A1503	Bracket KERN OBB-A1503
OCS 901	Cleaning Sets for Microscopes KERN OCS 901
OCS-A1101	Cleaning liquid KERN OCS-A1101

## SERVICES

Model	Description
970-112	Warranty extension KERN (+2 years) 970-112

## SPARE PARTS

Model	Description
OBB-A1352	Microscope eyepiece KERN OBB-A1352
OBB-A1404	Microscope eyepiece KERN OBB-A1404
OBB-A1525	Microscope Objective KERN OBB-A1525
OBB-A1526	Microscope Objective KERN OBB-A1526
OBB-A1527	Microscope Objective KERN OBB-A1527
OBB-A1528	Microscope Objective KERN OBB-A1528
OBB-A1503	Bracket KERN OBB-A1503
OBB-A1524	Eye cups (Pair) OBB-A1524
OBB-A1532	Object holder (clip) OBB-A1532

Model	Description
OBB-A1533	Polarizer slider OBB-A1533
OBB-A1534	Analyzer slider OBB-A1534
OBB-A1568	Power supply unit EURO KERN OBB-A1568
OBB-A1569	UK power supply unit KERN OBB-A1569
OBB-A1589	Bulb KERN OBB-A1589

## RELATED ARTICLES DATA

Model name	Optical System	Tube	Eyepiece	Standard Objectives	Objective quality	Illumination
OLM 170	Infinity	Trinocular	Eyepiece HWF 10 x / Ø 20mm with anti-fungus, high eye point	10x;20x;50x;5 x	Infinity Plan	5W LED (Auflicht)
OLM 171	Infinity	Trinocular	Eyepiece HWF 10 x / Ø 22mm with anti-fungus, high eye point	-	-	50W Halogen (Auflicht)