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METALLURGICAL MICROSCOPES

Laboratory | Industry | Food Industry



2025

KERN Pictograms



360° rotatable microscope head



Monocular Microscope
For the inspection with
one eye



Binocular MicroscopeFor the inspection with both eyes



Trinocular MicroscopeFor 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 illuminationCold, 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 100 W mercury lamp and filter



Fluorescence illumination for compound microscopes 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



POLAR

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



Integrated scale
In the evepiece



SD card For data storage



USB 2.0 interface For data transmission



USB 3.0 interface For data transmission



WIFI data interface: For transmitting of the picture to a mobile display device



HDMI digital cameraFor direct transmitting of the picture to a display device



PC software
To transfer the measurements from the device to



Automatic temperature compesation
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.



Rechargeable battery pack Rechargeable set



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 product
internally is shown in
days in the pictogram.



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

Abbreviations

C-Mount Adapter for the connection of a

camera to a trinocular microscope

FPS Frames per second

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 camera Single-Lens Reflex camera

SWF Super Wide Field (Field number at least Ø 23 mm

for 10× eyepiece)

W.D. Working Distance

WF Wide Field (Field number up to Ø 22 mm

for 10× eyepiece)

KERN Models A-Z

| OAB-L | 100 |
|---|--|
| OAB-L OBE-12 · OBE-13 | |
| | |
| OBE-S OBL-12 · OBL-13 | 05 |
| OBL-14 · OBL-15 | |
| OBL-S · OBN-S | |
| OBN-13 · OBN-15 | |
| | |
| OBN-14 M | |
| OBS-1 | |
| OBT-1 · OBT-2 <u>™</u> | |
| OCM-1 | |
| OCS-9 | |
| ODC-24 | |
| ODC-25 NEW | |
| ODC-82 · ODC-83 · ODC-84 | |
| ODC-85 · ODC-86 | 86 |
| ODC-87 · ODC-88 · ODC-89 | 87 |
| OIV-2 | 62 |
| OIV-3 · OIV-9 NEW | |
| OIV-6 | |
| OKM-1 | |
| OKO-1 | |
| OLM-1 | |
| OPO-1 | 33 |
| | |
| ORA | 92-98 |
| ORA ORL-B | 92-98 105 |
| ORA ORL-B9 | 92-98 105 9-104 |
| ORA ORL-B 9 OSE-4 · OZL-9 · OZM-9 9 | 92-98 105 9-104 71 |
| ORA ORL-B 9 ORM 9 OSE-4 · OZL-9 · OZM-9 0 SE-42 | 92-98 105 9-104 71 36 |
| ORA 9 ORL-B 9 OSE-4 · OZL-9 · OZM-9 9 OSE-42 0SF-43 9 | 92-98 105 9-104 71 36 38 |
| ORA 9 ORL-B 9 OSE-4 · OZL-9 · OZM-9 9 OSE-42 0SF-43 0XM-9 9 | 92-98 105 9-104 71 36 38 90 |
| ORA 9 ORL-B 9 OSE-4 · OZL-9 · OZM-9 9 OSE-42 0SF-43 0XM-9 9 OZB-H 9 | 92-98 105 9-104 71 36 38 90 81 |
| ORA 9 ORL-B 9 OSE-4 · OZL-9 · OZM-9 9 OSE-42 0SF-43 0XM-9 0ZB-H 0ZB-IR 9 | 92-98 105 9-104 71 36 38 90 81 83 |
| ORA | 92-98 105 9-104 71 36 38 90 81 83 74 |
| ORA | 92-98 105 9-104 71 36 38 90 81 83 74 80 |
| ORA 9 ORL-B 9 OSE-4 · OZL-9 · OZM-9 9 OSF-43 9 OZB-H 0ZB-IR 0ZB-M 0ZB-UE 0ZB-UP 9 | 92-98 105 9-104 71 36 38 90 81 83 74 80 79 |
| ORA 9 ORL-B 9 OSE-4 · OZL-9 · OZM-9 9 OSF-43 9 OZB-H 0ZB-IR 0ZB-M 0ZB-UE 0ZB-UP 0ZG-4 9 | 92-98 105 9-104 71 36 38 90 81 83 74 80 79 56 |
| ORA 9 ORL-B 9 OSE-4 · OZL-9 · OZM-9 9 OSE-42 0SF-43 9 OZB-H 0ZB-IR 0ZB-UP 0ZB-UP 0ZG-4 | 92-98 105 9-104 71 36 38 90 81 83 74 80 79 56 40 |
| ORA 9 ORL-B 9 OSE-4 · OZL-9 · OZM-9 9 OSE-42 0SF-43 9 OZB-H 0ZB-H 0ZB-IR 0ZB-UE 0ZB-UP 0ZB-UP 0ZG-4 0ZL-44 | 92-98 105 9-104 71 36 38 90 81 83 74 80 56 40 46 |
| ORA | 92-98 105 9-104 71 36 38 90 81 83 74 80 56 40 46 48 |
| ORA | 92-98 105 9-104 71 36 38 90 81 83 74 80 79 56 40 46 48 42 |
| ORA 9 ORL-B 9 OSE-4 · OZL-9 · OZM-9 9 OSE-42 9 OSF-43 9 OZB-H 9 OZB-H 9 OZB-H 9 OZB-H 9 OZB-W | 92-98 105 9-104 71 36 38 90 81 83 74 80 79 56 40 46 48 42 44 |
| ORA 9 ORL-B 9 OSE-4 · OZL-9 · OZM-9 9 OSE-42 9 OSF-43 9 OZB-H 9 OZB-H 9 OZB-H 9 OZB-H 9 OZB-W 9 OZB | 92-98 105 9-104 71 36 38 90 81 83 74 80 79 56 40 46 48 42 44 67 |
| ORA | 92-98 105 9-104 71 36 38 90 81 83 74 80 79 56 40 48 42 44 67 50 |
| ORA | 92-98 105 9-104 71 36 38 90 81 83 74 80 79 56 40 46 48 42 44 67 50 70 |
| ORA | 92-98 105 9-104 71 36 38 90 81 83 74 80 79 56 40 46 48 42 44 67 50 70 68 |
| ORA | 92-98 105 9-104 71 36 38 90 81 83 74 80 79 56 40 46 48 42 44 67 50 70 68 |

New model

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With questions about our products and services, we will be happy to advise you:

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KERN Hotlines

Optical Devices



Technical questions about our products?
You will find assistance here quickly: +49 7433 9933-...

| Service-Hotline | → 199 |
|---|--------------|
| for general technical questions about your KERN product | |
| | |

for all technical questions concerning our microscopes, microscope cameras, refractometers, etc.

Laboratory and Analytical Balances

→444

for all technical questions concerning our high quality precision balances, analytical balances (especially with electromagnetic force-compensated measuring systems, tuning fork and high application density)

SAUTER Measuring Instruments → 555

for all technical questions concerning our SAUTER measuring instruments, test benches, force measuring accessories (clamps etc.), SAUTER software

System Solutions Industry 4.0 → 200

for all technical questions concerning the interlocking of the latest information and communication technology with our scales, load cells and measuring devices as well as questions about KERN software

Calibration and Verification Service → 196

for any questions concerning our calibration and verification service





Illumination unit with filter disc



Stage and objectives

Lab Line MET

The metallurgical reflected light microscope for material testing and surface testing, as well as quality assurance in industry

Features

- The KERN OKM is an excellent metallurgical reflected light microscope, e.g. for surface quality testing of raw materials and finished products in industry
- The strong, continuously dimmable 5 W LED incident illumination unit ensures excellent, high-contrast images
- The illumination unit with an integrated 5-slot filter wheel for blue, green, yellow, grey and blank means that you can quickly change the colour filter for different contrast views
- · A large mechanical stage for reflected illumination applications is configured as standard. The coarse and fine focusing knob on both sides guarantees optimal adjustment and focusing of your sample

- A simple polarising unit (analyser and polariser) is included with delivery
- · A large selection of different eyepieces, objectives and a polarising unit are also available
- · A protective dust cover, eye cups, as well as multi-lingual user instructions are included in the scope of delivery
- · A C-mount adapter is required to connect a camera to the trinocular version. You can select this adapter from the following model
- · 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
- · Quadplex nosepiece
- Siedentopf 30° inclined/360° rotatable
- Diopter adjustment: One-sided
- · Overall dimensions W×D×H 440×200×460 mm
- · Net weight basic configuration approx. 8 kg

STANDARD

















| Model | | Standard configuration | | | | |
|---------|------------|------------------------|-------------------|----------------------------|--------------------|---------------|
| KERN | Tube | Eyepiece | Objective quality | Objectives | Illumination | ex works € |
| OKM 173 | Trinocular | HWF 10×/Ø 18 mm | Infinity Plan | 5×/10×/ LWD 20×/ LWD50× | 5 W LED (incident) | 2220,- |

| Model outfit | | Model KERN | Order number | Price/piece excl. of VAT | |
|------------------------------------|---|------------|-------------------|-----------------------------|--|
| | _ | OKM 173 | | ex works € | |
| | HWF 10×/ø 18 mm | ✓ | OBB-A1403 | 50,- | |
| | HWF 10×/Ø 18 mm (reticule 0,1 mm) (non-adjustable) | ✓ | OBB-A1349 | 65,- | |
| Eyepieces (23,2 mm) | WF 5×/ø 20 mm | 0 | OBB-A1355 | 60,- | |
| | WF 12,5×/Ø 14 mm | 0 | OBB-A1353 | 85,- | |
| | WF 16×/ø 13 mm | 0 | OBB-A1354 | 50,- | |
| | 5×/0,11 W.D. 6,80 mm | 0 | OBB-A1268 | 115,- | |
| Infinity | 10×/0,25 W.D. 4,3 mm | 0 | OBB-A1244 | 215,- | |
| Plan achromatic objectives | 20×/0,40 (spring-loaded) W.D. 2,14 mm | 0 | OBB-A1251 | 290,- | |
| | 40×/0,66 (spring-loaded) W.D. 0,45 mm | 0 | OBB-A1258 | 315,- | |
| | 5×/0,13 W.D. 24,23 mm | ✓ | OBB-A1525 | 135,- | |
| Indinity | 10×/0,25 W.D. 18,48 mm | ✓ | OBB-A1526 | 200,- | |
| Infinity Plan achromatic | 20×/0,40 W.D. 8,35 mm | ✓ | OBB-A1527 | 265,- | |
| objectives for long working | 40×/0,65 W.D. 3,90 mm | 0 | OBB-A1259 | 440,- | |
| distance | 50×/0,75 (spring-loaded) W.D. 1,95 mm | ✓ | OBB-A1528 | 350,- | |
| | 80×/0,80 (spring-loaded) W.D. 0,85 mm | 0 | OBB-A1271 | 550,- | |
| Trinocular tube | Siedentopf 30° inclined/360° rotatable Interpupillary distance 50 - 75 mm Light distribution 80:20 Diopter adjustment: One-sided | ✓ | OBB-A1346 | | |
| Mechanical stage | Stage size W×D 200×140 mm Travel 76×52 mm Coaxial coarse and fine focusing knobs | ✓ | | | |
| Deflected | 5-filter unit (Blue, Green, Yellow, Grey, Empty) | ✓ | | | |
| Reflected illumination unit | Polarising unit (Incl. analyser and polariser slide) | ✓ | | | |
| | 1× | 0 | OBB-A1514 | 130,- | |
| C-Mount | 0,5× (focus adjustable) | 0 | OBB-A1515 | 200,- | |
| | | ✓ = Includ | led with delivery | O = Option | |





Revolving stage with glass plate



Illumination unit

Professional Line MET

The fully-equipped reflected and transmitted light microscope for numerous applications in metallurgy

Features

- · This device is a professional, versatile, metallurgical microscope, which is used in testing metals and analysing surfaces
- The KERN OKO 178 is a combi variant of LED incident illumination and LED transmitted illumination. A height-adjustable 1.25 Abbe condenser which can be centred as well as a field diaphragm for complete professional Köhler illumination are part of the standard
- An open, mechanical angle table is integrated as standard
- A simple polarising unit (analyser and polariser) is included with delivery

- A large selection of accessories, such as, for example, eyepieces and further objectives are available for longer working distances
- A protective dust cover, eye cups, as well as multi-lingual user instructions are included in the scope of delivery
- A C-Mount adapter is required to connect a camera. You can select this adapter from the following model outfit list
- · 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/360° rotatable
- · Diopter adjustment: Both-sided
- · Overall dimensions W×D×H 550×200×460 mm
- · Net weight basic configuration approx. 14,5 kg

STANDARD











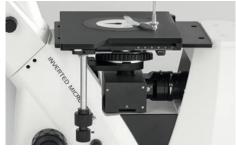


| Q | | | Ð | | ∞ | min | _ | |
|------|-------|------|-----|-------|----------|-------|-------|-------|
| 360° | TRINO | ABBE | LED | POLAR | INFINITY | SCALE | 230 V | 1 DAY |
| | | | | | | | | |

| Model | Standard configuration | | | | | Price excl. of VAT |
|---------|------------------------|-----------------|-------------------|----------------|----------------------------------|-----------------------|
| KERN | Tube | Eyepiece | Objective quality | Objectives | Illumination | ex works € |
| OKO 178 | Trinocular | HWF 10×/Ø 22 mm | Infinity Plan | 5×/10×/20×/50× | 5 W LED (incident + transmitted) | 3350,- |

| Model outfit | | Model KERN | Order number | Price/piece excl. of VAT |
|---|--|------------|-------------------|-----------------------------|
| | | OKO 178 | | ex works € |
| Eyepieces | HWF 10×/ø 22 mm (adjustable) | ✓ | OBB-A1491 | 100,- |
| (30 mm) | HWF 10×/Ø 22 mm (reticule 0,1 mm) (adjustable) | ✓ | OBB-A1523 | 155,- |
| | 5×/0,15 W.D. 21,0 mm | ✓ | OBB-A1619 | 180,- |
| Infinity Plan Semi | 10×/0,3 W.D. 20,0 mm | ✓ | OBB-A1620 | 275,- |
| Apochromatic objectives | 20×/0,40 W.D. 15,0 mm | ✓ | OBB-A1621 | 335,- |
| for long working distance | 50×/0,75 W.D. 4,25 mm | ✓ | OBB-A1641 | 480,- |
| | 100×/0,85 (dry) W.D. 3,00 mm | 0 | OBB-A1623 | 1260,- |
| Infinity Plan objectives for long working distance | 80×/0,80 (spring-loaded) W.D. 0,85 mm | O | OBB-A1530 | 520,- |
| Trinocular tube | Siedentopf 30° inclined/360° rotatable Interpupillary distance 48 – 76 mm Light distribution 100:0 | √ | | |
| Mechanical stage for transmitted illumination | Stage size W×D 182×140 mm Travel 77×52 mm Coaxial coarse and fine focusing knobs | ~ | | |
| Reflected illumination unit | Polarising unit (Incl. analyser, polariser and blue filter slide) | ✓ | | |
| Condenser | Abbe N.A. 1,25 (aperture diaphragm) | ✓ | OBB-A1380 | 110,- |
| Koehler illumination | 5 W LED spare bulb (transmitted) | | | |
| Illumination polarising unit | 5 W LED spare bulb (incident) | ✓ | OBB-A1589 | 90,- |
| Polariser | For transmitted illumination | ✓ | OBB-A1470 | 150,- |
| | Blue | ✓ | OBB-A1170 | 25,- |
| Colour filters | Green | 0 | OBB-A1188 | 25,- |
| for transmitted illumination | Yellow | 0 | OBB-A1165 | 25,- |
| | Grey | 0 | OBB-A1183 | 25,- |
| | 1× | 0 | OBB-A1514 | 130,- |
| C-Mount | 0,75× | 0 | OBB-A1590 | 200,- |
| | 0,5× (focus adjustable) | 0 | OBB-A1515 | 200,- |
| | | ✓ = Includ | led with delivery | O = Option |





Specimen stage and illumination unit (OLM 171)



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
- Depending on the application, you can choose from models with a powerful, continuously dimmable 5W LED or a 50W halogen incident light illumination, which ensure 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

- 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
- · 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

OLM 170

- · 4-fold lens revolving unit
- Butterfly 45° angled
- · Diopter adjustment: one-sided
- · Overall dimensions W×D×H 470×240×330 mm
- Net weight approx. 7 kg

OLM 171

- 5-fold lens revolving unit
- Siedentopf 30° inclined
- Diopter adjustment: both-sided
- · Overall dimensions W×D×H 271×379×747 mm
- · Net weight approx. 12,5 kg

STANDARD

























| Model | Standard configuration | | | | | Price excl. of VAT |
|---------|------------------------|-----------------|-------------------|---------------|------------------------|-----------------------|
| KERN | Tube | Eyepiece | Objective quality | Objectives | Illumination | ex works € |
| OLM 170 | Trinocular | HWF 10×/Ø 20 mm | Infinity Plan | LWD5×/LWD10×/ | 5W LED (incident) | 3000,- |
| OLM 171 | Trinocular | HWF 10×/Ø 22 mm | Semi Apochromatic | LWD20×/LWD50× | 50W Halogen (incident) | 3950,- |

| Model outfit | | Model KERN | | Order number | Price/piece excl. of VAT |
|--|---|------------|---------------------------------------|---|--|
| | • | OLM 170 | OLM 171 | _ | ex works € |
| Eyepieces | HWF 10×/ø 20 mm | ✓ | | OBB-A1404 | 105,- |
| 23,2 mm) | WF 10×/Ø 20 mm (reticule 0,1 mm) (adjustable) | ✓ | | OBB-A1352 | 25,- |
| Eyepieces | HWF 10×/ø 22 mm (adjustable) | | ✓ | OBB-A1491 | 100,- |
| 30 mm) | HWF 10×/Ø 22 mm (reticule 0,1 mm) (adjustable) | | ✓ | OBB-A1523 | 155,- |
| | 5×/0,13 W.D. 16,04 mm | ✓ | 0 | OBB-A1525 | 135,- |
| nfinity | 10×/0,25 W.D. 18,48 mm | ✓ | 0 | OBB-A1526 | 200,- |
| Plan achromatic objectives | 20×/0,40 W.D. 8,35 mm | ✓ | 0 | OBB-A1527 | 265,- |
| or long working distance | 50×/0,70 (spring-loaded) W.D. 1,95 mm | ✓ | 0 | OBB-A1528 | 350,- |
| | 80×/0,80 (spring-loaded) W.D. 0,85 mm | 0 | 0 | OBB-A1530 | 520,- |
| nfinity Plan Semi Apochromatic objectives or long working distance | 5x/0,15 W.D. 21 mm 10x/0,30 W.D. 20 mm 20x/0,40 W.D. 15 mm 50x/0,55 W.D. 10 mm 100×/0,85 (dry) W.D. 3,00 mm | 0 | * * * * * * * * * * * * * * * * * * * | OBB-A1619 OBB-A1620 OBB-A1621 OBB-A1622 OBB-A1623 | 180,- 275,- 335,- 480,- 1260,- |
| rinocular tube | Butterfly 45° inclined Interpupillary distance 48-76 mm Light distribution 20:80 Diopter adjustment: One-sided | √ | | | |
| Trinocular tube | Siedentopf 30° inclined Interpupillary distance 48-76 mm Light distribution 100:0 Diopter adjustment: Both-sided | | ✓ | | |
| Mechanical stage | Stage size B×T 155×180 mm Travel 75×40 mm Coaxial coarse and fine focusing knobs | ✓ | | | |
| Mechanical stage | Stage size W×D 210×180 mm Travel 50×50 mm Coaxial coarse and fine focusing knobs | | ✓ | | |
| llumination | 5 W LED spare bulb (incident) | ✓ | | OBB-A1589 | 90,- |
| llumination | 50 W Halogen spare bulb (incident) | | ✓ | OBB-A1207 | 25,- |
| Reflected Ilumination unit | Polarising unit (Incl. analyser, polariser and colour filter slide) | ✓ | ✓ | | |
| | Blue | | ✓ | OBB-A1510 | 25,- |
| Colour filters | Green | | 0 | OBB-A1511 | 25,- |
| or transmitted Iumination | Yellow | | 0 | OBB-A1512 | 30,- |
| | Grey | ✓ | 0 | OBB-A1513 | 25,- |
| | 0,5× (built-in) | ✓ | | | |
| C-Mount | 0,5× | | 0 | OBB-A1515 | 200,- |
| -iviourit | 1× | | 0 | OBB-A1514 | 130,- |

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