

COMPOUND MICROSCOPES



KERN 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 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



Polarising unit To polarise the light



Infinity system Infinity corrected optical system



Zoom magnification For stereomicroscopes

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 |



Parallel optical system For stereomicroscopes, enables fatigue-proof working



Integrated scale In the eyepiece



SD card For data storage



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



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 device



PC software To transfer the measurements from the device 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.



Battery operation rechargable Prepared for a rechargable battery operation



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



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.

| SLR camera | Single-Lens Reflex camera |
|------------|--|
| SWF | Super Wide Field (Field number at least ϕ 23 mm for 10× eyepiece) |
| W.D. | Working Distance |
| WF | Wide Field (Field number up to Ø 22 mm for 10× eyepiece) |

Why you should choose a KERN microscope now!

For over 170 years, KERN & SOHN has been synonymous with high precision weighing and measuring technology. This claim is the driving force for the development of our microscope and refractometer ranges.

By working closely with you and our production partners, within 3 years we have developed a complete product range of high-quality microscopes and refractometers.

Thanks to consistent customer focus paired with smart ideas and the latest available technology we are proud to be suppliers of high-quality, durable top microscopes and refractometers, which help you to be as efficient as possible in your daily work.

When developing our microscopes we have concentrated on the very best optical quality and have used only high-quality glass and the latest technologies to achieve this. The high-quality Philips halogen and modern LED illumination produce razor-sharp images with high contrast and which will impress you with their brilliant true-colour display – you must have noticed this yourself.

Your advantages:

- all mechanical parts have been designed for a long service life
- special attention has been given to the ergonomy of our microscopes, as this allows the user to work for several hours in a comfortable position which does not cause fatigue
- our microscopes are fully-equipped and can be used immediately
- Highlight for 2018: die KERN camera software you will be amazed at how user-friendly and intuitive it is
- and much more...

Use our practical "Check list for microscopes and refractometers", which may help you to quickly determine specifications for the future instrument. Together with our KERN product specialist you can choose the right product for you.

If there is no suitable product in the standard range, for example, then we will of course configure an individual microscope for you.

Our aim is to develop a market-driven product solution, so with our microscope and refractometer range, the saying holds true: good quality at a competitive price! This is what we stand for and work towards, every day!

With our current 2018 product range you can benefit from improved quality and a clear reduction in price, which we have been able to achieve through more efficient production methods and increased global sales of our microscopes and refractometers and of course we pass this straight on to you

Do you have any questions about our range of microscopes and refractometers?

Your KERN customer consultants are available at any time to help you further.

I hope that you enjoy working efficiently with our KERN Optics products.

Albert Sauter, Managing Director

Your advantages

fast

- 24 hour dispatch service for products in stock – order today, on its way tomorrow
- Sales & service hotline from 8:00 am to 5:00 pm

reliable

- Up to 3 years warranty
- Certified QM system
 DIN EN ISO 9001

versatile

- One-stop shopping: from microscope through to refractometer – everything from one supplier
- Quick as a flash, find the product you want with the "Quick-Finder" at www.kern-sohn.com



Order hotline +49[0]7433 9933-0



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Our team of consultants will assist you from Monday to Friday from 8:00 am to 5:00 pm www.kern-sohn.com

Information on current product availability, product data sheets, user instructions, useful knowledge, technical glossary and much for you to download, practical topic areas, which will guide you to the right product in your industry as well as a clever test weight and balance search engine.

Compound microscopes Compound, Phase contrast, Digital, Fluorescence and Inverted microscopes

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EDUCATIONAL LINE The school microscope – For the first steps in microscopy and for use in biology lessons

Features

- The KERN OBS range is a solid and simple school microscope range, which is easy to use due to its intuitive control elements
- The continuously dimmable 0.5W LED guarantees optimum illumination of the samples and also ensures long service life. Mobile use is also no problem through the use of rechargeable batteries
- · The simple 0.65 condenser lens with rotating aperture diaphragm disc on the OBS 101 ensures the very best concentration of light and illumination of the sample. The OBS 104 and OBS 106 models have a 1.25 Abbe condenser which is height-adjustable and can therefore be focussed and has an aperture diaphragm, which ensures the very best concentration of light

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LED

ABBE

■→ RECHARGE

230 V

- · To focus the object, all models have a coarse and fine focusing knob on both sides. The mechanical stage enables you to work with the samples and move them rapidly (only for OBS 106)
- · A large selection of different eyepieces and objectives is also available
- · Please find detailed information in the following model outfit list

Scope of application

· Primary school, secondary school, training, hobby use

Applications/Samples

• Translucent, thin, high-contrast, less complex samples (e.g. plant tissue, coloured cells/ parasites)

Technical data

- Finite optical system (DIN)
- Triple (OBS 101) or quadplex (OBS 104, OBS 106) nosepiece
- Tube 45° (OBS 101) or 30° (OBS 104, OBS 106) inclined/360° rotatable
- · Diopter adjustment: Both-sided (for binocular models)
- Overall dimensions W×D×H 130×300×310 mm
- Net weight approx. 3 kg

| | OBS 104 OBS 106 | | | | | | | |
|----------|--------------------|----------------|-------------------|-----------------|---|------------|-----------------------|--|
| Model | | | Standard | d configuration | | | Price excl. of VAT | |
| KERN | Tube | Eyepiece | Objective quality | Objectives | Illumination | Stage | ex works € | |
| OBS 101 | Monocular | WF 10×/Ø 18 mm | Achromatic | | 0,5W LED (transmitted) (battery incl., rechargeable) | fix | 205,- | |
| OBS 104 | Binocular | WF 10×/Ø 18 mm | Achromatic | 4×/10×/40× | 0,5W LED (transmitted) (battery incl., rechargeable) | fix | 325,- 🔱 | |
| OBS 106 | Binocular | WF 10×/Ø 18 mm | Achromatic | | 0,5W LED (transmitted) (battery incl., rechargeable) | mechanical | 360,- 🕚 | |
| A | | | | | | | | |

Price reduction

STANDARD Ü

360°

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MONO

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BINO

Compound microscope KERN OBS-1

| Model outfit | | | Model KERN | I | Order number | Price/piece excl. of VAT |
|--|---|------------|------------|------------|--------------|-----------------------------|
| | | OBS 101 | OBS 104 | OBS 106 | _ | ex works € |
| | WF 10×/Ø 18 mm | ✓ | ~ | ~ | OBB-A1473 | 30,- |
| Eyepieces (23,2 mm) | WF 16×/Ø 13 mm | 0 | 00 | 00 | OBB-A1474 | 30,- |
| (;) | WF 20×/Ø 11 mm | 0 | 00 | 00 | OBB-A1475 | 30,- |
| | 4×/0,10 W.D. 18,0 mm | ~ | ~ | ~ | OBB-A1476 | 35,- |
| | 10×/0,25 W.D. 7,0 mm | ✓ | ~ | ~ | OBB-A1477 | 40,- |
| | 40×/0,65 (spring) W.D. 0,53 mm | ✓ | ~ | ~ | OBB-A1478 | 45,- |
| Achromatic objectives | 60×/0,85 (spring) W.D. 0,1 mm | 0 | 0 | 0 | OBB-A1479 | 60,- |
| | 100×/1,25 (oil) (spring) W.D. 0,07 mm | 0 | 0 | 0 | OBB-A1480 | 65,- |
| | E-Plan 100×/0,80 (dry) (spring) W.D. 0,15 mm | 0 | 0 | 0 | OBB-A1442 | 170,- |
| | Plan 100×/1,0 (water) (spring) W.D. 0,18 mm | 0 | 0 | 0 | OBB-A1441 | 170,- |
| Monocular tube 45° inclined/360° rotatable | | ✓ | | | OBB-A1471 | |
| Binocular tube | 30° inclined/360° rotatable Interpupillary distance 55-75 mm Diopter adjustment: Both-sided | | * | ~ | OBB-A1472 | |
| Fixed stage | Stage size W×D 110×120 mm Coaxial coarse and fine focusing knobs, scale: 2,5 µm | V | * | | | |
| Mechanical stage | Stage size W×D 115×125 mm Travel 75×18 mm Coaxial coarse and fine focusing knobs, scale: 2,5 µm | | | ~ | | |
| | Simple condenser N.A. 0,65 | ~ | | | | |
| Condenser | Abbe N.A. 1,25 (aperture diaphragm) | | 1 | ~ | | |
| Illumination | 0,5 W LED illumination system (transmitted) (rechargeable) | ~ | ~ | ~ | | |
| | Blue | ~ | 1 | × | OBB-A1466 | 19,- |
| Colour filters | Green | 0 | 0 | 0 | OBB-A1467 | 19,- |
| for transmitted illumination | Yellow | 0 | 0 | 0 | OBB-A1468 | 19,- |
| | Gray | 0 | 0 | 0 | OBB-A1184 | 19,- |

 \checkmark = Included with delivery

Compound microscope KERN OBE-1



EDUCATIONAL LINE

The fully equipped all-round compound microscope for school, training and laboratories

Features

- · The KERN OBE series is a range of high-quality, fully-equipped compound microscopes, which can't be beaten in terms of ease of use and ergonomic design
- The strong and continuously dimmable 3 W LED guarantees optimum illumination of the samples and also ensures long service life. Mobile use of several models is also no problem through the use of rechargeable batteries
- · The height-adjustable and thereby focusable 1,25 Abbe condenser with aperture diaphragm is a further quality feature of the OBE series and ensures the very best concentration of light
- · Height adjustment of the fully-equipped mechnical stage is carried out using a coarse and fine focusing knob on both

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LED

ABBE

RECHARGE

OBE 103

230 V

1 DAY

sides. The ergonomically designed coaxial drive enables you to work with the samples and move them rapidly

- A large selection of different eyepieces and objectives, a simple polarising unit and a darkfield kit are available to you as accessories
- · A protective dust cover, eye cups, as well as multi-lingual user instructions are included in the scope of the delivery
- A C-mount adapter is required to connect a camera to the trinocular version. You can select this adapter from the following model outfit list
- · Please find detailed information in the following model outfit list

OPTION

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Scope of application

· Training, haematology, sediment investigation, doctor's practise

Applications/Samples

• Translucent, thin, high-contrast, less complex samples (e.g. plant tissue, coloured cells/ parasites)

Technical data

- · Finite optical system
- Quadplex nosepiece
- Siedentopf 30° inclined/360° rotatable
- · Diopter adjustment: One-sided
- (for binocular and trinocular models) Overall dimensions W×D×H
- 320×180×365 mm • Net weight approx. 5,5 kg

| | | OBE 113 | | | | |
|---------|------------|-----------------|-------------------|-----------------|--|-------------------------------|
| Model | | | Standard | d configuration | | Price |
| KERN | Tube | Eyepiece | Objective quality | Objectives | Illumination | excl. of VAT ex works € |
| OBE 101 | Monocular | HWF 10×/Ø 18 mm | Achromatic | | 3 W LED (transmitted) | 385,- 🕚 |
| OBE 102 | Binocular | HWF 10×/Ø 18 mm | Achromatic | | 3 W LED (transmitted) | 480,- 🕚 |
| OBE 103 | Binocular | HWF 10×/Ø 18 mm | Achromatic | 4×/10×/40× | 3 W LED (transmitted) (battery incl., rechargeable) | 550,- 🕚 |
| OBE 104 | Trinocular | HWF 10×/Ø 18 mm | Achromatic | | 3 W LED (transmitted) | 590,- 🕚 |
| OBE 111 | Monocular | HWF 10×/Ø 18 mm | Achromatic | | 3 W LED (transmitted) | 450,- |
| OBE 112 | Binocular | HWF 10×/Ø 18 mm | Achromatic | - | 3 W LED (transmitted) | 540,- 🕚 |
| OBE 113 | Binocular | HWF 10×/Ø 18 mm | Achromatic | 4×/10×/40×/100× | 3 W LED (transmitted) (battery incl., rechargeable) | 610,- 🕔 |
| OBE 114 | Trinocular | HWF 10×/Ø 18 mm | Achromatic | | 3 W LED (transmitted) | 650,- 🕚 |

Price reduction

STANDARD

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360°

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Compound microscope KERN OBE-1

| Model outfit | | | Mode | KERN | | Order number | Price/piece excl. of VAT | |
|--|---|------------|------------|------------|------------|--------------|-----------------------------|--|
| | | OBE 101 | OBE 102 | OBE 103 | OBE 104 | - | ex works € | |
| | HWF 10×/Ø 18 mm | 1 | 44 | 44 | 44 | OBB-A1403 | 45,- | |
| Eyepieces | WF 16×/Ø 13 mm | 0 | 00 | 00 | 00 | OBB-A1354 | 45,- | |
| (23,2 mm) | HWF 10×/Ø 18 mm (with Pointer) | 0 | 0 | 0 | 0 | OBB-A1348 | 40,- | |
| | HWF 10×/Ø 18 mm (reticule 0,1 mm) (non-adjustable) | 0 | 0 | 0 | 0 | OBB-A1349 | 60,- | |
| | 4×/0,10 W.D. 18,6 mm | ~ | ~ | 1 | 1 | OBB-A1111 | 35,- | |
| | 10×/0,25 W.D. 6,5 mm | ~ | ✓ | 1 | ~ | OBB-A1108 | 45,- | |
| | 40×/0,65 (spring) W.D. 0,47 mm | 1 | 1 | 1 | ✓ | OBB-A1112 | 70,- | |
| Achromatic | 100×/1,25 (oil) (spring) W.D. 0,07 mm | 0 | 0 | 0 | 0 | OBB-A1109 | 105,- | |
| objectives | 20×/0,40 (spring) W.D. 1,75 mm | 0 | 0 | 0 | 0 | OBB-A1110 | 85,- | |
| | 60×/0,85 (spring) W.D. 0,1 mm | 0 | 0 | 0 | 0 | OBB-A1113 | 105,- | |
| | E-Plan 100×/0,80 (dry) (spring) W.D. 0,15 mm | 0 | 0 | 0 | 0 | OBB-A1442 | 170,- | |
| | Plan 100×/1,0 (water) (spring) W.D. 0,18 mm | 0 | 0 | 0 | 0 | OBB-A1441 | 170,- | |
| Nonocular tube 30° inclined/360° rotatable | | ~ | | | | OBB-A1227 | | |
| Binocular tube | Siedentopf 30° inclined/360° rotatable Interpupillary distance 50 - 75 mm Diopter adjustment: One-sided | | * | • | | OBB-A1123 | | |
| Trinocular tube | see binocular tube Light distribution 20:80 | | | | ~ | OBB-A1341 | | |
| Mechanical stage | Stage size W×D 125×115 mm Travel 50×70 mm Coaxial coarse and fine focusing knobs, scale: 2 µm | * | * | * | * | | | |
| Condenser | Abbe N.A. 1,25 (aperture diaphragm) | ✓ | 1 | ✓ | 1 | OBB-A1101 | 85,- | |
| Darkfield unit | Usable for 4×-40× objectives | 0 | 0 | 0 | 0 | OBB-A1148 | 85,- | |
| Polarising unit | Analyser/Polariser | 0 | 0 | 0 | 0 | OBB-A1276 | 265,- | |
| | 3 W LED illumination system (transmitted) (non-rechargeable) | * | ~ | | * | | | |
| Illumination | 3 W LED illumination system (transmitted) (rechargeable) | | | ~ | | | | |
| | Blue | 0 | 0 | 0 | 0 | OBB-A1466 | 19,- | |
| Colour filters | Green | 0 | 0 | 0 | 0 | OBB-A1467 | 19,- | |
| for transmitted illumination | Yellow | 0 | 0 | 0 | 0 | OBB-A1468 | 19,- | |
| | Gray | 0 | 0 | 0 | 0 | OBB-A1184 | 19,- | |
| | 0,5× (focus adjustable) | | | | 0 | OBB-A1137 | 160,- | |
| C-Mount | 1× | | | | 0 | OBB-A1139 | 100,- | |

 \checkmark = Included with delivery

Compound microscope KERN OBE-1

| Model outfit | | | Mode | KERN | | Order number | Price/piece excl. of VAT |
|--|---|------------|------------|------------|------------|--------------|-----------------------------|
| | | OBE 111 | OBE 112 | OBE 113 | OBE 114 | - | ex works € |
| | HWF 10×/Ø 18 mm | ✓ | 44 | 44 | 11 | OBB-A1403 | 45,- |
| Evepieces | WF 16×/Ø 13 mm | 0 | 00 | 00 | 00 | OBB-A1354 | 45,- |
| (23,2 mm) | HWF 10×/Ø 18 mm (with Pointer) | 0 | 0 | 0 | 0 | OBB-A1348 | 40,- |
| | HWF 10×/Ø 18 mm (reticule 0,1 mm) (non-adjustable) | 0 | 0 | 0 | 0 | OBB-A1349 | 60,- |
| | 4×/0,10 W.D. 18,6 mm | ✓ | ✓ | 1 | ~ | OBB-A1111 | 35,- |
| | 10×/0,25 W.D. 6,5 mm | ~ | ~ | ✓ | 1 | OBB-A1108 | 45,- |
| | 40×/0,65 (spring) W.D. 0,47 mm | ~ | ~ | 1 | 1 | OBB-A1112 | 70,- |
| Achromatic | 100×/1,25 (oil) (spring) W.D. 0,07 mm | ~ | ~ | 1 | 1 | OBB-A1109 | 105,- |
| objectives | 20×/0,40 (spring) W.D. 1,75 mm | 0 | 0 | 0 | 0 | OBB-A1110 | 85,- |
| | 60×/0,85 (spring) W.D. 0,1 mm | 0 | 0 | 0 | 0 | OBB-A1113 | 105,- |
| | E-Plan 100×/0,80 (dry) (spring) W.D. 0,15 mm | 0 | 0 | 0 | 0 | OBB-A1442 | 170,- |
| | Plan 100×/1,0 (water) (spring) W.D. 0,18 mm | 0 | 0 | 0 | 0 | OBB-A1441 | 170,- |
| Monocular tube 30° inclined/360° rotatable | | ~ | | | | OBB-A1227 | |
| Binocular tube | Siedentopf 30° inclined/360° rotatable Interpupillary distance 50 - 75 mm Diopter adjustment: One-sided | | * | • | | OBB-A1123 | |
| Trinocular tube | see binocular tube Light distribution 20:80 | | | | ~ | OBB-A1341 | |
| Mechanical stage | Stage size W×D 125×115 mm Travel 50×70 mm Coaxial coarse and fine focusing knobs, scale: 2 µm | * | * | * | * | | |
| Condenser | Abbe N.A. 1,25 (aperture diaphragm) | 1 | 1 | ✓ | ✓ | OBB-A1101 | 85,- |
| Darkfield unit | Usable for 4×-40× objectives | 0 | 0 | 0 | 0 | OBB-A1148 | 85,- |
| Polarising unit | Analyser/Polariser | 0 | 0 | 0 | 0 | OBB-A1276 | 265,- |
| | 3 W LED illumination system (transmitted) (non-rechargeable) | ~ | ~ | | ~ | | |
| Illumination | 3 W LED illumination system (transmitted) (rechargeable) | | | ~ | | | |
| | Blue | 0 | 0 | 0 | 0 | OBB-A1466 | 19,- |
| Colour filters | Green | 0 | 0 | 0 | 0 | OBB-A1467 | 19,- |
| for transmitted illumination | Yellow | 0 | 0 | 0 | 0 | OBB-A1468 | 19,- |
| | Gray | 0 | 0 | 0 | 0 | OBB-A1184 | 19,- |
| | 0,5× (focus adjustable) | | | | 0 | OBB-A1137 | 160,- |
| C-Mount | 1× | | | | 0 | OBB-A1139 | 100,- |

 \checkmark = Included with delivery





Trinocular version



Simple polarising attachment

LAB LINE

The high-performance compound microscope for every laboratory with fixed, pre-centred Koehler illumination

Features

- The KERN OBF models are excellent, stable laboratory microscopes for all common routine applications. A central feature of this adaptable, robust microscope series is the stable mechanism which can be adjusted precisely
- Depending on the application, there is a choice of models with strong, continuously dimmable 3 W LED or 20 W halogen illumination (Philips)
- The fixed, pre-centred and focusable 1,25 Abbe condenser with aperture diaphragm and field diaphragm gives you a simplified Koehler illumination, without having to move the centre
- The large mechanical stage and its specimen holder holds up to two samples at the same time and is quick and easy to focus using a coaxial coarse and fine focusing knob on both sides

- A large selection of eyepieces, objectives and colour filters as well as a darkfield condenser and a simple polarising unit are available to you as accessories
- 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 outfit list
- Please find detailed information in the following model outfit list

Scope of application

 Haematology, urology, gynaecology, dermatology, pathology, microbiology and parasitology, immunology, oncology, entomology, vets, water analysis and breweries

Applications/Samples

• Translucent, thin, low-contrast, challenging samples (e.g. living mammal cells, bacteria, tissue)

Technical data

- Finite optical system (DIN)
- Quadplex nosepiece
- Siedentopf 30° inclined/360° rotatable
- Diopter adjustment: One-sided
- Overall dimensions W×D×H
 395×200×380 mm
- Net weight approx. 6,7 kg



| Model | | | Standard | l configuration | | Price excl. of VAT | |
|---------|------------|-------------------------------|------------|-----------------|--------------------------------|-----------------------|--|
| KERN | Tube | be Eyepiece Objective quality | | Objectives | Illumination | ex works € | |
| OBF 121 | Binocular | HWF 10×/Ø 18 mm | Achromatic | | 6 V/20 W Halogen (transmitted) | 750,- 🖖 | |
| OBF 122 | Binocular | HWF 10×/Ø 18 mm | Plan | | 6 V/20 W Halogen (transmitted) | 860,- 🕛 | |
| OBF 123 | Binocular | HWF 10×/Ø 18 mm | Plan | 4×/10×/40×/100× | 3 W LED (transmitted) | 840,- 🖖 | |
| OBF 131 | Trinocular | HWF 10×/Ø 18 mm | Achromatic | 4^/10^/40^/100^ | 6 V/20 W Halogen (transmitted) | 860,- 🕛 | |
| OBF 132 | Trinocular | HWF 10×/Ø 18 mm | Plan | | 6 V/20 W Halogen (transmitted) | 970,- 🖖 | |
| OBF 133 | Trinocular | HWF 10×/Ø 18 mm | Plan | | 3 W LED (transmitted) | 950,- 🖖 | |

| Model outfit | | | | Mode | KERN | | - | Order number | Price/piece excl. of VAT |
|---------------------------------|---|------------|------------|------------|------------|------------|------------|--------------|-------------------------------|
| | | OBF 121 | OBF 131 | OBF 122 | OBF 132 | OBF 123 | OBF 133 | | exci. of vAl ex works € |
| | HWF 10×/Ø 18 mm | 121 | √ √ | OBB-A1403 | 45,- |
| Eyepieces | WF 16×/Ø 13 mm | 00 | 00 | 00 | 00 | 00 | 00 | OBB-A 1354 | 45,- |
| (23,2 mm) | HWF 10×/Ø 18 mm (with Pointer) | 0 | 0 | 0 | 0 | 0 | 0 | OBB-A1348 | 40,- |
| | HWF 10×/Ø 18 mm (reticule 0,1 mm) (non-adjustable) | 0 | 0 | 0 | 0 | 0 | 0 | OBB-A1349 | 60,- |
| | 4×/0,10 W.D. 18,6 mm | ~ | ✓ | | | | | OBB-A1111 | 35,- |
| | 10×/0,25 W.D. 6,5 mm | ~ | ✓ | | | | | OBB-A1108 | 45,- |
| Achromatic | 40×/0,65 (spring) W.D. 0,47 mm | ~ | ~ | | | | | OBB-A1112 | 70,- |
| objectives | 100×/1,25 (oil) (spring) W.D. 0,07 mm | ~ | ✓ | | | | | OBB-A1109 | 105,- |
| | 20×/0,40 (spring) W.D. 1,75 mm | 0 | 0 | | | | | OBB-A1110 | 85,- |
| | 60×/0,85 (spring) W.D. 0,1 mm | 0 | 0 | | | | | OBB-A1113 | 105,- |
| | 4×/0,10 W.D. 14,5 mm | | | 1 | ~ | ~ | ~ | OBB-A1255 | 65,- |
| | 10×/0,25 W.D. 5,65 mm | | | 1 | ~ | ~ | ~ | OBB-A1238 | 80,- |
| | 40×/0,65 (spring) W.D. 0,85 mm | | | 1 | ~ | ✓ | ~ | OBB-A1256 | 115,- |
| Plan objectives | 100×/1,25 (oil) (spring) W.D. 0,07 mm | | | 1 | ~ | ✓ | ~ | OBB-A1239 | 150,- |
| | 20×/0,40 (spring) W.D. 1,5 mm | | | 0 | 0 | 0 | 0 | OBB-A1249 | 115,- |
| | 60×/0,85 (spring) W.D. 0,07 mm | | | 0 | 0 | 0 | 0 | OBB-A1269 | 155,- |
| | 100×/1,0 (water) (spring) W.D. 0,18 mm | 0 | 0 | 0 | 0 | 0 | 0 | OBB-A1441 | 170,- |
| Binocular tube | Siedentopf 30° inclined/360° rotatable Interpupillary distance 50 - 75 mm (for non-infinity system) Diopter adjustment: One-sided | ~ | 0 | ~ | 0 | ~ | 0 | OBB-A1129 | |
| Trinocular tube | Siedentopf 30° inclined/360° rotatable Interpupillary distance 50 - 75 mm Light distribution 20:80 (for non-infinity system) Diopter adjustment: One-sided | 0 | * | 0 | * | 0 | * | OBB-A1345 | |
| Mechanical stage | Stage size W×D 145×130 mm Travel 76×52 mm Coaxial coarse and fine focusing knobs, scale: 2 µm Two slide holder | * | * | * | * | * | * | | |
| Condenser | Abbe N.A. 1,25 precentered (aperture diaphragm) | ✓ | ✓ | 1 | ~ | ✓ | ✓ | OBB-A1103 | 85,- |
| Darkfield condenser | N.A. 0,85 - 0,91 (dry, paraboloid) | 0 | 0 | 0 | 0 | 0 | 0 | OBB-A1422 | 230,- |
| | 6 V/20 W Halogen spare bulb (transmitted) | ~ | ✓ | 1 | 1 | | | OBB-A1370 | 25,- |
| Illumination | 3 W LED illumination system (transmitted) (non-rechargeable) | | | | | ~ | ~ | | |
| Polarising unit | Analyser/Polariser | 0 | 0 | 0 | 0 | 0 | 0 | OBB-A1277 | 265,- |
| | Blue (built-in) | ✓ | ✓ | 1 | ~ | ✓ | 1 | | |
| Colour filters | Green | 0 | 0 | 0 | 0 | 0 | 0 | OBB-A1188 | 19,- |
| for transmitted illumination | Yellow | 0 | 0 | 0 | 0 | 0 | 0 | OBB-A1165 | 19,- |
| | Gray | 0 | 0 | 0 | 0 | 0 | 0 | OBB-A1183 | 19,- |
| | 0,47× (focus adjustable) | | 0 | | 0 | | 0 | OBB-A1135 | 160,- |
| C-Mount | 1× | | 0 | | 0 | | 0 | OBB-A1142 | 100,- |

 \checkmark = Included with delivery





Trinocular version



Simple polarising attachment

LAB LINE

The flexible laboratory assistant with infinity optical system and fixed, pre-centred Koehler illumination

Features

- The OBL series stands out through its infinity optical unit and is therefore ideally suited for all demanding transmitted illumination applications. The robust and ergonomic stand base guarantees safe and comfortable working
- Depending on the application, there is a choice of models with strong, continuously dimmable 3 W LED or 20 W halogen illumination (Philips)
- The fixed, pre-centred and focusable 1,25 Abbe condenser with aperture diaphragm and field diaphragm gives you a simplified Koehler illumination, without having to move the centre
- The large mechanical stage and its specimen holder holds up to two samples at the same time and is quick and easy to focus using a coaxial coarse and fine focusing knob on both sides

- A large selection of eyepieces, objectives and colour filters as well as a darkfield condenser, a simple polarising unit, different phase contrast kits through to HBO and LED fluorescence units are available to you as accessories
- 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 outfit list
- Please find detailed information in the following model outfit list

Scope of application

 Haematology, urology, gynaecology, dermatology, pathology, microbiology and parasitology, immunology, oncology, entomology, vets, water analysis and breweries

Applications/Samples

• Translucent, thin, low-contrast, challenging samples (e.g. living mammal cells, bacteria, tissue)

Technical data

- Infinity optical system
- Quadplex nosepiece
- Siedentopf 30° inclined/360° rotatable
- Diopter adjustment: One-sided
- Overall dimensions W×D×H
 395×200×380 mm
- Net weight approx. 6,7 kg



| Model | | | Standard | d configuration | | Price excl. of VAT |
|---------|------------|---------------------------------|-------------------|-------------------|--------------------------------|-----------------------|
| KERN | Tube | Eyepiece | Objective quality | Objectives | Illumination | ex works € |
| OBL 125 | Binocular | HWF 10×/Ø 20 mm | Infinity E-Plan | | 6 V/20 W Halogen (transmitted) | 910,- 🖖 |
| OBL 127 | Binocular | HWF 10×/Ø 20 mm | Infinity E-Plan | 4 / 10 / 10 / 100 | 3 W LED (transmitted) | 910,- 🖖 |
| OBL 135 | Trinocular | HWF 10×/Ø 20 mm Infinity E-Plan | | 4×/10×/40×/100× | 6 V/20 W Halogen (transmitted) | 1020,- 🖖 |
| OBL 137 | Trinocular | HWF 10×/Ø 20 mm | Infinity E-Plan |] | 3 W LED (transmitted) | 1020,- 🕚 |

| Model outfit | | | Mode | KERN | | Order number | Price/piece excl. of VAT |
|---|---|------------|------------|------------|------------|--------------|-------------------------------|
| | | OBL 125 | OBL 135 | OBL 127 | OBL 137 | - | exci. of var ex works € |
| | HWF 10×/Ø 20 mm | 44 | 44 | 44 | 11 | OBB-A1404 | 95,- |
| Eyepieces (23,2 mm) | WF 16×/Ø 13 mm | 00 | 00 | 00 | 00 | OBB-A1354 | 45,- |
| (20,2 mm) | HWF 10×/Ø 20 mm (with Pointer) | 0 | 0 | 0 | 0 | OBB-A1448 | 80,- |
| | 4×/0,10 W.D. 12,1 mm | ~ | ~ | ~ | ✓ | OBB-A1161 | 90,- |
| | 10×/0,25 W.D. 2,1 mm | ~ | ~ | ✓ | ✓ | OBB-A1159 | 150,- |
| | 40×/0,65 (spring) W.D. 0,58 mm | ✓ | ~ | ~ | ✓ | OBB-A1160 | 265,- |
| Infinity E-Plan objectives | 100×/1,25 (oil) (spring) W.D. 0,19 mm | 1 | ~ | 1 | ✓ | OBB-A1158 | 335,- |
| | Plan 20×/0,40 (spring) W.D. 2,41 mm | 0 | 0 | 0 | 0 | OBB-A1250 | 265,- |
| | Plan 60×/0,80 (spring) W.D. 0,33 mm | 0 | 0 | 0 | 0 | OBB-A1270 | 360,- |
| | Plan 100×/1,15 (water) (spring) W.D. 0,18 mm | 0 | 0 | 0 | 0 | OBB-A1437 | 445,- |
| Binocular tube | Siedentopf 30° inclined/360° rotatable Interpupillary distance 50 - 75 mm (for infinity system) Diopter adjustment: One-sided | | 0 | * | 0 | OBB-A1130 | |
| Trinocular tube | Siedentopf 30° inclined/360° rotatable Interpupillary distance 50 – 75 mm | 0 | * | 0 | | OBB-A1346 | |
| | Light distribution 20:80 (for infinity system) Diopter adjustment: One-sided | | | | ~ | OBB-A1549 | |
| Mechanical stage | Stage size W×D 145×130 mm Travel 76×52 mm Coaxial coarse and fine focusing knobs, scale: 2 µm Two slide holder | | * | * | * | | |
| Condenser | Abbe N.A. 1,25 precentered (aperture diaphragm) | 1 | ~ | ~ | ~ | OBB-A1103 | 85,- |
| Darkfield condenser | N.A. 0,85 - 0,91 (dry, paraboloid) | 0 | 0 | 0 | 0 | OBB-A1422 | 230,- |
| | 6 V/20 W Halogen spare bulb (transmitted) | 1 | ✓ | | | OBB-A1370 | 25,- |
| Illumination | 3 W LED illumination system (transmitted) (non-rechargeable) | | | ~ | ~ | | |
| Polarising unit | Analyser/Polariser | 0 | 0 | 0 | 0 | OBB-A1277 | 265,- |
| | Single unit with ∞ PH-Plan objective 10× | 0 | 0 | 0 | 0 | OBB-A1215 | 310,- |
| Phase contrast | Single unit with ∞ PH-Plan objective 20× | 0 | 0 | 0 | 0 | OBB-A1217 | 350,- |
| units (including PH-condenser and | Single unit with ∞ PH-Plan objective 40× | 0 | 0 | 0 | 0 | OBB-A1219 | 420,- |
| PH-slides) | Single unit with ∞ PH-Plan objective 100× | 0 | 0 | 0 | 0 | OBB-A1213 | 510,- |
| | If required, there are several magnification levels, please conta | act our OF | TICS proc | luct mana | gement te | am | <u></u> |
| | 100 W HBO Epi Fluorescence unit, three-hole slide (B/G) including centering objective | 0 | 0 | 0 | 0 | OBB-A1154 | 2350,- |
| Fluorescence unit | 3 W LED Epi Fluorescence unit, three-hole slide (B/G) including centering objective | 0 | 0 | 0 | 0 | OBB-A1157 | 3110,- |
| | Blue (built-in) | ~ | ~ | ~ | ✓ | | |
| Colour filters | Green | 0 | 0 | 0 | 0 | OBB-A1188 | 19,- |
| or transmitted unination Yellow | | 0 | 0 | 0 | 0 | OBB-A1165 | 19,- |
| | Gray | 0 | 0 | 0 | 0 | OBB-A1183 | 19,- |
| | 0,47× (focus adjustable) | 0 | 0 | 0 | | OBB-A1135 | 160,- |
| | 0,5× (focus adjustable) | | | | 0 | OBB-A1515 | 185,- |
| C-Mount | | 0 | 0 | 0 | | OBB-A1142 | 100,- |
| | 1× | - | - | - | 0 | OBB-A1514 | 120,- |
| | | | | L | | h delivery | $\Omega = Opti$ |

✓ = Included with delivery





Mounted phase contrast condenser



Simple PH condenser with 40× PH slide

LAB LINE

High-quality phase contrast microscope – specially pre-configured with a series of options for flexible expansion

Features

- We have developed this series specially for general applications with phase contrast method. In addition, the stable, modular construction system of the OBL series offers many more options
- A strong and continously adjustable 20 W halogen illumination unit (Philips) ensures the optimum lighting conditions
- A special fixed, pre-centred phase contrast condenser with aperture diaphragm as well as field diaphragm give you a simplified Koehler illumination and thereby a powerful phase-contrast display of your sample
- The large mechanical stage and its specimen holder holds up to two samples at the same time and is quick and easy to focus using a coaxial coarse and fine focusing knob on both sides

- A large selection of eyepieces, objectives and colour filters, a simple polarising unit as well as further phase contrast units are available to you as accessories
- 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 outfit list
- Please find detailed information in the following model outfit list

Scope of application

 Haematology, urology, gynaecology, dermatology, pathology, microbiology and parasitology, immunology, Sewage treatment plants, Oncology, entomology, vets, water analysis and breweries

Applications/Samples

• Specially for extremely translucent, thin, low-contrast, challenging samples (e.g. living mammal cells, bacteria, tissue) with phase contrast

Technical data

- · Infinity optical system
- Quadplex nosepiece
- Siedentopf 30° inclined/360° rotatable
- Diopter adjustment: One-sided
- Overall dimensions W×D×H 395×200×380 mm
- Net weight approx. 6,7 kg

| ł | STANDARD | | | | | | | | | | | |
|---|----------|------|-------|--------------|-----|----|-------------------|-------|-------|----|-------|-------|
| | Ö | 00 | | \mathbf{A} | Ð | 0 | $\mathbf{\infty}$ | -¢ | | ۲ | - | Luund |
| | 360° | BINO | TRINO | ABBE | HAL | PH | INFINITY | 230 V | 1 DAY | DF | POLAR | SCALE |

| Model | | | Standard | l configuration | | Price excl. of VAT | | |
|---------|------------|-----------------|--------------------------|-----------------|--------------------------------|-----------------------|--|--|
| KERN | Tube | | | | | | | |
| OBL 145 | Binocular | HWF 10×/Ø 20 mm | Infinity E-Plan/ Plan | 4×/PH10×/ | 6 V/20 W Halogen (transmitted) | 1420,- 🕚 | | |
| OBL 155 | Trinocular | HWF 10×/Ø 20 mm | Infinity E-Plan/ Plan | PH40×/100× | 6 V/20 W Halogen (transmitted) | 1530,- 😃 | | |

Phase contrast microscopes KERN OBL-14 \cdot 15

| Model outfit | | Mode | I KERN | Order number | Price/piece excl. of VAT |
|--------------------------------|---|------------|------------|--------------|-----------------------------|
| | | OBL 145 | OBL 155 | | ex works € |
| | HWF 10×/Ø 20 mm | 1 1 | 44 | OBB-A1404 | 95,- |
| E yepieces (23,2 mm) | WF 16×/Ø 13 mm | 00 | 00 | OBB-A1354 | 45,- |
| 20,2 1111) | HWF 10×/Ø 20 mm (with Pointer) | 0 | 0 | OBB-A1448 | 80,- |
| | 4×/0,10 W.D. 12,1 mm | ✓ | 4 | OBB-A1161 | 90,- |
| | 10×/0,25 W.D. 2,1 mm | 0 | 0 | OBB-A1159 | 150,- |
| | 40×/0,65 (spring) W.D. 0,58 mm | 0 | 0 | OBB-A1160 | 265,- |
| nfinity E-Plan objectives | 100×/1,25 (oil) (spring) W.D. 0,19 mm | ✓ | 1 | OBB-A1158 | 335,- |
| | Plan 20×/0,40 (spring) W.D. 2,41 mm | 0 | 0 | OBB-A1250 | 265,- |
| | Plan 60×/0,80 (spring) W.D. 0,33 mm | 0 | 0 | OBB-A1270 | 360,- |
| | Plan 100×/1,15 (water) (spring) W.D. 0,18 mm | 0 | 0 | OBB-A1437 | 445,- |
| Binocular tube | Siedentopf 30° inclined/360° rotatable Interpupillary distance 50 – 75 mm (for infinity system) Diopter adjustment: One-sided | * | 0 | OBB-A1130 | |
| Trinocular tube | Siedentopf 30° inclined/360° rotatable Interpupillary distance 50 – 75 mm Light distribution 20:80 (for infinity system) Diopter adjustment: One-sided | 0 | * | OBB-A1549 | |
| Mechanical stage | Stage size W×D 145×130 mm Travel 76×52 mm Coaxial coarse and fine focusing knobs, scale: 2 µm Two slide holder | * | * | | |
| PH condenser | Abbe N.A. 1,25 precentered, for bright field and phase contrast | * | ~ | OBB-A1398 | 150,- |
| | Infinity PH-Plan objective 10× | × | ✓ | OBB-A1390 | 170,- |
| | Infinity PH-Plan objective 20× | 0 | 0 | OBB-A1391 | 200,- |
| | Infinity PH-Plan objective 40× | × | 4 | OBB-A1392 | 260,- |
| | Infinity PH-Plan objective 100× | 0 | 0 | OBB-A1393 | 345,- |
| Phase contrast Inits | PH slide 10× | ✓ | ✓ | OBB-A1399 | 75,- |
| | PH slide 20× | 0 | 0 | OBB-A1400 | 75,- |
| | PH slide 40× | ✓ | 1 | OBB-A1401 | 75,- |
| | PH slide 100× | 0 | 0 | OBB-A1402 | 75,- |
| | Centering eyepiece | ✓ | 4 | | |
| Darkfield condenser | N.A. 0,85 – 0,91 (dry, paraboloid) | 0 | 0 | OBB-A1422 | 230,- |
| llumination | 6 V/20 W Halogen spare bulb (transmitted) | ✓ | 1 | OBB-A1370 | 25,- |
| | Blue (built-in) | ✓ | ✓ | | |
| Colour filters | Green | ✓ | 1 | OBB-A1188 | 19,- |
| or transmitted llumination | Yellow | 0 | 0 | OBB-A1165 | 19,- |
| | Gray | 0 | 0 | OBB-A1183 | 19,- |
| C-Mount | 0,5× (focus adjustable) | | 0 | OBB-A1515 | 185,- |
| | k | 1 | + | | |

 \checkmark = Included with delivery

O = Option

01





Easy connection to the PC, Laptop not included in delievery Please find the description of the software in chapter 8 (p. 93)

LAB LINE

The digital all-round talent for your applications, documentation and live transmissions through an integrated camera

Features

- The KERN OBD is an excellent, stable laboratory microscope with integrated camera and infinity optical system, based on the OBL series
- A strong and continously adjustable 20 W halogen illumination unit (Philips) ensures the optimum lighting conditions
- The fixed, pre-centred and focusable 1,25 Abbe condenser with aperture diaphragm and field diaphragm gives you a simplified Koehler illumination, without having to move the centre
- The large mechanical stage and its specimen holder holds up to two samples at the same time and is quick and easy to focus using a coaxial coarse and fine focusing knob on both sides

- A large selection of eyepieces, objectives and colour filters, a simple polarising unit as well as phase contrast units are available to you as accessories
- Multi-lingual software, USB cable, calibration scale as well as a protective dust cover, eye cups and multi-lingual user instructions are included in the scope of delivery
- Please find detailed information in the following model outfit list

Scope of application

 Haematology, urology, gynaecology, dermatology, pathology, microbiology and parasitology, immunology, Sewage treatment plants, Oncology, entomology, vets, water analysis and breweries, if necessary, for training where there will be lots of people observing the screen/beamer at the same time

Applications/Samples

• Translucent, thin, low-contrast, challenging samples (e.g. living mammal cells, bacteria, tissue)

Technical data

- · Infinity optical system
- Quadplex nosepiece
- Siedentopf 30° inclined/360° rotatable
- Diopter adjustment: One-sided
- Overall dimensions W×D×H 395×200×430 mm
- Net weight approx. 7 kg

| 5 | STANDARD | | | | | | | | | | | |
|---|----------|------|-----------------------|-----|-------------------|---------|----------|-------|-------|----|----|-------|
| | Ö | 00 | $\boldsymbol{\Delta}$ | Ð | $\mathbf{\infty}$ | ⊷ | | | | Ø | ۲ | - |
| | 360° | BINO | ABBE | HAL | INFINITY | USB 2.0 | SOFTWARE | 230 V | 1 DAY | PH | DF | POLAR |

| Model | | | Standard | l configuration | | Price excl. of VAT | | |
|---------|----------------------------------|--|-----------------|------------------------|--------------------------------|-----------------------|--|--|
| KERN | Tube | Eyepiece Objective quality Objectives Illumination | | | | | | |
| OBD 127 | Binocular/3MP digital/USB 2.0 | HWF 10×/Ø 20 mm | Infinity E-Plan | 4 × /10 × /40 × /100 × | 6 V/20 W Halogen (transmitted) | 1510,- 🔱 | | |
| OBD 128 | Binocular/5MP digital/USB 2.0 | HWF 10×/Ø 20 mm | Infinity E-Plan | | 6 V/20 W Halogen (transmitted) | 1600,- 😃 | | |

Compound microscope KERN OBD-1

| Model outfit | | Mode | I KERN | Order number | Price/piece excl. of VAT | |
|--------------------------------------|---|---------------------|-------------------|--------------|-------------------------------|--|
| | | OBD 127 | OBD 128 | - | excl. of vAl ex works € | |
| | HWF 10×/Ø 20 mm | 44 | 44 | OBB-A1404 | 95,- | |
| Eyepieces (23,2 mm) | WF 16×/Ø 13 mm | 00 | 00 | OBB-A1354 | 45,- | |
| (23,2 mm) | HWF 10×/Ø 20 mm (with Pointer) | 0 | 0 | OBB-A1448 | 80,- | |
| | 4×/0,10 W.D. 12,1 mm | ✓ | ✓ | OBB-A1161 | 90,- | |
| | 10×/0,25 W.D. 2,1 mm | ✓ | ✓ | OBB-A1159 | 150,- | |
| | 40×/0,65 (spring) W.D. 0,58 mm | ✓ | ✓ | OBB-A1160 | 265,- | |
| Infinity E-Plan objectives | 100×/1,25 (oil) (spring) W.D. 0,19 mm | 4 | 1 | OBB-A1158 | 335,- | |
| | Plan 20×/0,40 (spring) W.D. 2,41 mm | 0 | 0 | OBB-A1250 | 265,- | |
| | Plan 60×/0,80 (spring) W.D. 0,33 mm | 0 | 0 | OBB-A1270 | 360,- | |
| | Plan 100×/1,15 (water) (spring) W.D. 0,18 mm | 0 | 0 | OBB-A1437 | 445,- | |
| Digital tube Trinocular (3MP) | 30° inclined/360° rotatable Interpupillary distance 50 - 75 mm Diopter adjustment: One-sided Light distribution 80:20 Built-in digital 3MP Camera with ½" CMOS USB port for PC without extra power supply With multilingual (DE, EN, FR, IT, ES) software "Microscope VIS" for Windows XP, Vista, 7, 8, 10 | * | | OBB-A1126 | | |
| Digital tube Trinocular (5MP) | 30° inclined/360° rotatable Interpupillary distance 50 - 75 mm Diopter adjustment: One-sided Light distribution 80:20 Built-in digital 5 MP Camera with ½,5" CMOS USB port for PC without extra power supply With multilingual (DE, EN, FR, IT, ES) software "Microscope VIS" for Windows XP, Vista, 7, 8, 10 | | ¥ | OBB-A1127 | | |
| Object micrometer | For calibrating the software measuring function, 0.01 mm division | ✓ | ~ | OBB-A1224 | 70,- | |
| Mechanical stage | Stage size W×D 145×130 mm Travel 76×52 mm Two slide holder Coaxial coarse and fine focusing knobs, scale: 2 μm | ¥ | ~ | | | |
| Condenser | Abbe N.A. 1,25 precentered (aperture diaphragm) | ✓ | ✓ | OBB-A1103 | 85,- | |
| Darkfield condenser | N.A. 0,85 – 0,91 (dry, paraboloid) | 0 | 0 | OBB-A1422 | 230,- | |
| Illumination | 6 V/20 W Halogen spare bulb (transmitted) | ✓ | ✓ | OBB-A1370 | 25,- | |
| Polarising unit | Analyser/Polariser | 0 | 0 | OBB-A1277 | 265,- | |
| | Single unit with ∞ PH-Plan objective 10× | 0 | 0 | OBB-A1215 | 310,- | |
| Phase contrast | Single unit with ∞ PH-Plan objective 20× | 0 | 0 | OBB-A1217 | 350,- | |
| units (including PH-condenser and | Single unit with ∞ PH-Plan objective 40× | 0 | 0 | OBB-A1219 | 420,- | |
| PH-slides) | Single unit with ∞ PH-Plan objective 100× | 0 | 0 | OBB-A1213 | 510,- | |
| | If required, there are several magnification levels, please conta | act our OPTICS prod | duct management t | eam | 1 | |
| | Blue (built-in) | | ✓ | | | |
| Colour filters | Green | 0 | 0 | OBB-A1188 | 19,- | |
| for transmitted illumination | Yellow | 0 | 0 | OBB-A1165 | 19,- | |
| | Gray | 0 | 0 | OBB-A1183 | 19,- | |

✓ = Included with delivery





Abbe condenser center-adjustable, also available with swing-out lens



Butterfly Tube (optionally available)

PROFESSIONAL LINE

Professionalism and versatility united in one microscope – with Koehler illumination for demanding applications

Features

- The OBN series stands out because of its unbeatable and consistently high quality and its ergonomic design. The range of modular components means that the OBN series can be individually customised for the professional user
- Depending on the application, there is a choice of models with strong, continuously dimmable 3 W LED or 20 W halogen transmitted illumination (Philips)
- This series has a professional Koehler illumination unit with an adjustable field diaphragm as well as a height-adjustable
 1,25 Abbe condenser which can be centred and which has an adjustable aperture diaphragm
- The extremely large mechanical stage with ergonomic, coaxial coarse and fine focusing knob on both sides enables you to adjust and focus your sample rapidly and accurately

- A wide variety of modular systems, such as, for example, a swing-out condenser, various eyepieces, objectives, colour filters, phase contrast units, a darkfield condenser, a simple polarising unit, Butterfly Tube, through to complete fluorescence units are available to you as accessories
- 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

 Haematology, urology, gynaecology, dermatology, pathology, microbiology and parasitology, immunology, Sewage treatment plants, Oncology, entomology, vets, water analysis and breweries

Applications/Samples

• Translucent, thin, low-contrast, challenging samples (e.g. living mammal cells, bacteria, tissue)

Technical data

- Infinity optical system
- Quintuple nosepiece
- Siedentopf 30° inclined/360° rotatable
- Diopter adjustment: Both-sided
- Overall dimensions W×D×H
 390×200×400 mm
- Net weight approx. 9 kg



| Model | | | Standard | l configuration | | Price excl. of VAT |
|---------|------------|-----------------|-------------------|-----------------|--------------------------------|-----------------------|
| KERN | Tube | Eyepiece | Objective quality | Objectives | ex works € | |
| OBN 132 | Trinocular | HWF 10×/Ø 20 mm | Infinity Plan | 4×/10×/20×/ | 6 V/20 W Halogen (transmitted) | 1370,- 🕚 |
| OBN 135 | Trinocular | HWF 10×/Ø 20 mm | Infinity Plan | 40×/100× | 3 W LED (transmitted) | 1390,- 🖖 |

Compound microscope KERN OBN-13

| Model outfit | | Mode | I KERN | Order number | Price/piece excl. of VAT | |
|-----------------------------------|--|-------------------|-------------------|--------------|-------------------------------|--|
| | | OBN 132 | OBN 135 | - | exci. of vAl ex works € | |
| Eyepieces | HWF 10×/Ø 20 mm | √ √ | | OBB-A1404 | 95,- | |
| (23,2 mm) | WF 16×/Ø 13 mm | 00 | 00 | OBB-A1354 | 45,- | |
| | 4×/0,10 W.D. 12,1 mm | ✓ | ✓ | OBB-A1263 | 110,- | |
| | 10×/0,25 W.D. 4,64 mm | ✓ | ✓ | OBB-A1243 | 195,- | |
| | 20×/0,40 (spring) W.D. 2,41 mm | ✓ | ✓ | OBB-A1250 | 265,- | |
| Infinity | 40×/0,66 (spring) W.D. 0,65 mm | ✓ | ✓ | OBB-A1257 | 290,- | |
| Plan achromatic objectives | 100×/1,25 (oil) (spring) W.D. 0,19 mm | ✓ | ✓ | OBB-A1240 | 315,- | |
| | 2,5×/0,07 W.D. 8,47 mm | 0 | 0 | OBB-A1247 | 265,- | |
| | Plan 60×/0,80 (spring) W.D. 0,33 mm | 0 | 0 | OBB-A1270 | 360,- | |
| | Plan 100×/1,15 (water) (spring) W.D. 0,18 mm | 0 | 0 | OBB-A1437 | 445,- | |
| Trinocular tube | Siedentopf 30° inclined/360° rotatable Interpupillary distance 50 - 75 mm Light distribution 100:0 Diopter adjustment: Both-sided | ✓ | ~ | | | |
| | Butterfly 30° inclined/360° rotatable Interpupillary distance 50 – 75 mm Light distribution 100:0 Diopter adjustment: Both-sided | 0 | 0 | OBB-A1382 | 520,- | |
| Mechanical stage | Stage size W×D 175×145 mm Travel 78×55 mm Coaxial coarse and fine focusing knobs Two slide holder | ~ | ~ | | | |
| Condenser | Abbe N.A. 1,25 center-adjustable (aperture diaphragm) | ✓ | * | OBB-A1102 | 85,- | |
| Condenser | Swing-out condenser N.A. 0,9/0,13 center-adjustable (aperture diaphragm) | 0 | 0 | OBB-A1104 | 220,- | |
| Darkfield condenser | N.A. 0,85 – 0,91 (dry, paraboloid) | 0 | 0 | OBB-A1421 | 265,- | |
| | 6 V/20 W Halogen spare bulb (transmitted) | ✓ | | OBB-A1370 | 25,- | |
| Koehler illumination | 3 W LED illumination system (transmitted) (non-rechargeable) | | ~ | | | |
| Polarising unit | Analyser/Polariser | 0 | 0 | OBB-A1283 | 265,- | |
| | Quintuple hole turret with 10×/20×/40×/100× Infinity-PH-Plan objectives (complete set) | 0 | 0 | OBB-A1237 | 1570,- | |
| | Single unit with ∞ PH-Plan objective 10× | 0 | 0 | OBB-A1214 | 310,- | |
| Phase contrast units | Single unit with ∞ PH-Plan objective 20× | 0 | 0 | OBB-A1216 | 350,- | |
| units | Single unit with ∞ PH-Plan objective 40× | 0 | 0 | OBB-A1218 | 420,- | |
| | Single unit with ∞ PH-Plan objective 100× | 0 | 0 | OBB-A1212 | 510,- | |
| | If required, there are several magnification levels, please conta | ct our OPTICS pro | duct management t | eam | | |
| C-Mount | 1× | 0 | 0 | OBB-A1140 | 100,- | |
| C-Mount | 0,57× (focus adjustable) | 0 | 0 | OBB-A1136 | 160,- | |
| | 100 W HBO Epi Fluorescence unit 6-filter disc (UV/V/B/G) including centering objective | 0 | 0 | OBB-A1155 | 4340,- | |
| Fluorescence unit | 100 W HBO Epi Fluorescence unit, two-hole slide (B/G) including centering objective | 0 | 0 | OBB-A1153 | 3080,- | |
| | 3 W LED Epi Fluorescence unit (B/G) including centering objective | 0 | 0 | OBB-A1156 | 3110,- | |
| | Blue | ✓ | | | | |
| Colour filters for transmitted | Green | 0 | 0 | OBB-A1188 | 19,- | |
| illumination | Yellow | 0 | 0 | OBB-A1165 | 19,- | |
| | Gray | 0 | 0 | OBB-A1183 | 19,- | |

 \checkmark = Included with delivery



PROFESSIONAL LINE The powerful, fully-equipped phase contrast microscope with varied options

Features

- This series stands out through its wide-ranging phase-contrast feature which goes beyond the standard OBN level of quality
- A strong and continuously adjustable 20 W halogen transmitted illumination unit (Philips) ensures the optimum illumination of your samples
- This series has a professional Koehler illumination unit with a special height-adjustable PH universal rotary condenser which can be centred as well as an aperture diaphragm and field diaphragm
- The extremely large mechanical stage with ergonomic, coaxial coarse and fine focusing knob on both sides enables you to adjust and focus your sample rapidly and accurately
- The combination of a professional quintuple condenser wheel, the phase contrast condenser and the Infinity Plan phase contrast objectives makes the KERN OBN 158 a high-quality, fully-equipped microscope for all applications related to contrast procedures

- A wide variety of modular systems, such as, for example, a swing-out condenser, various eyepieces, objectives. colour filters, a darkfield condenser, a simple polarising unit, Butterfly Tube, through to complete fluorescence units are available to you as accessories
- This centring eyepiece for adjusting the phase contrast, 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

 Haematology, urology, gynaecology, dermatology, pathology, microbiology and parasitology, immunology, Sewage treatment plants, Oncology, entomology, vets, water analysis and breweries

Applications/Samples

• Specially for extremely translucent, thin, low-contrast, challenging samples (e.g. living mammal cells, bacteria, tissue) with phase contrast

Technical data

- · Infinity optical system
- Quintuple nosepiece
- Siedentopf 30° inclined/360° rotatable
- Diopter adjustment: Both-sided
- Overall dimensions W×D×H
 390×200×400 mm
- Net weight approx. 9 kg

| STANDARD | 0 | | | | | | | OPTION | |
|----------|-------|-----------------------|-----|----|-------------------|-------|-------|--------|-------|
| Q | | $\boldsymbol{\Delta}$ | Ð | O | $\mathbf{\infty}$ | | | ۲ | hun |
| 360° | TRINO | ABBE | HAL | PH | INFINITY | 230 V | 1 DAY | DF | SCALE |

| Model | | | Standard | l configuration | | Price excl. of VAT |
|---------|------------|-----------------|-------------------|---|--------------------------------|-----------------------|
| KERN | Tube | Eyepiece | Objective quality | jective quality Objectives Illumination | | |
| OBN 158 | Trinocular | HWF 10×/Ø 20 mm | Infinity Plan | 4×/PH10×/PH20×/ PH40×/PH100× | 6 V/20 W Halogen (transmitted) | 2540,- 🕚 |

Phase contrast microscope KERN OBN-15

| Model outfit | | Model KERN | Order number | Price/piece excl. of VAT |
|--|--|------------|--------------|-----------------------------|
| | | OBN 158 | | ex works € |
| Eyepieces | HWF 10×/Ø 20 mm | √√ | OBB-A1404 | 95,- |
| (23,2 mm) | WF 16×/Ø 13 mm | 00 | OBB-A1354 | 45,- |
| | 4×/0,10 W.D. 12,1 mm | ✓ | OBB-A1263 | 110,- |
| | 10×/0,25 W.D. 4,64 mm | 0 | OBB-A1243 | 195,- |
| | 20×/0,40 (spring) W.D. 2,41 mm | 0 | OBB-A1250 | 265,- |
| Infinity Plan achromatic | 40×/0,66 (spring) W.D. 0,65 mm | 0 | OBB-A1257 | 290,- |
| objectives | 100×/1,25 (oil) (spring) W.D. 0,19 mm | 0 | OBB-A1240 | 315,- |
| | 2,5×/0,07 W.D. 8,47 mm | 0 | OBB-A1247 | 265,- |
| | Plan 60×/0,80 (spring) W.D. 0,33 mm | 0 | OBB-A1270 | 360,- |
| - · · · · · · · · · · · · · · · · · · · | Siedentopf 30° inclined/360° rotatable Interpupillary distance 50 - 75 mm Light distribution 100:0 Diopter adjustment: Both-sided | √ | | |
| Trinocular tube | Butterfly 30° inclined/360° rotatable Interpupillary distance 50 - 75 mm Light distribution 100:0 Diopter adjustment: Both-sided | O | OBB-A1382 | 520,- |
| Mechanical stage | Stage size W×D 175×145 mm Travel 78×55 mm Coaxial coarse and fine focusing knobs Two slide holder | ✓ | | |
| PH condenser | Universal rotary condenser for bright field and phase contrast suitable for 10×/20×/40×/100× PH objectives center-adjustable PH ring units; with aperture diaphragm | ✓ | | |
| | Infinity PH-Plan objective 10× | ✓ | OBB-A1390 | 170,- |
| | Infinity PH-Plan objective 20× | ✓ | OBB-A1391 | 200,- |
| Phase contrast units | Infinity PH-Plan objective 40× | √ | OBB-A1392 | 260,- |
| | Infinity PH-Plan objective 100× | √ | OBB-A1393 | 345,- |
| | Centering eyepiece | ✓ | | |
| Darkfield condenser | N.A. 0,85 – 0,91 (dry, paraboloid) | 0 | OBB-A1421 | 265,- |
| Koehler illumination | 6 V/20 W Halogen spare bulb (transmitted) | ✓ | OBB-A1370 | 25,- |
| | Blue | 0 | OBB-A1170 | 19,- |
| Colour filters | Green | ✓ | | |
| or transmitted Ilumination | Yellow | 0 | OBB-A1165 | 19,- |
| | Gray | 0 | OBB-A1183 | 19,- |
| | 1× | 0 | OBB-A1140 | 100,- |
| C-Mount | 0,57× (focus adjustable) | 0 | OBB-A1136 | 160,- |

 \checkmark = Included with delivery





OBN 141/OBN 147



Illumination unit



Sextuple filter wheel OBN 148

PROFESSIONAL LINE The fluorescence microscope for the professional user

Features

- The fluorescence microscope in the OBN-14 series is based on the usual high quality and versatility of the OBN series. The outstanding, stable design in combination with high-quality optics set the standard in fluorescence microscopy in this class
- · The powerful, dimmable 20W halogen illumination unit (Philips) and a 100W Epi fluorescence incident illumination unit on the OBN 147/OBN 148 models ensure perfect illumination and stimulation of your fluorescence samples
- As an alternative, with the OBN 141 model we can offer you a fluorescence microscope with a 3W LED transmitted illumination unit and 3W LED Epi fluorescence incident illumination unit
- This series has a professional Koehler illumination unit with an adjustable field diaphragm as well as a height-adjustable 1,25 Abbe condenser which can be centred and which has an adjustable aperture diaphragm
- The extremely large mechanical stage with ergonomic, coaxial coarse and fine focusing knob on both sides enables you to adjust and focus your sample rapidly and accurately

- With the OBN 147/OBN 148 halogen variant you have a filter wheel which has up to 6 fittings. As standard this is fitted with a B/G or B/G/UV/V fluorescence filter. The OBN 141 LED variant is fitted with a B/G fluorescence filter with a changeover slider as standard. The changeover slider and the filter wheel mean that you can change the stimulation filter quickly
- · A large selection of eyepieces, objectives, colour filters, darkfield condensers as well as a Butterfly Tube, polarising and phase contrast units can easily be integrated thanks to the modular construction system
- The centring objective for adjusting the fluorescence, 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

· Haematology, urology, gynaecology, dermatology, pathology, microbiology and parasitology, immunology, Sewage treatment plants, Oncology, entomology, vets, water analysis and breweries

Applications/Samples

· Specially for translucent, thin, low-contrast, challenging samples (e.g. Immunofluorescence, FISH, DAPI staining, etc.)

Technical data

- Infinity optical system
- Quintuple nosepiece
- Siedentopf 30° inclined/360° rotatable
- Diopter adjustment: Both-sided
- Overall dimensions W×D×H 530×220×490 mm
- · Net weight approx. 23 kg

| STANDARD | STANDARD | | | | | | | | | | |
|----------|----------|--------------|-----|--------|-------------------|-------|-------|----|----|-------|-------|
| Q | | \mathbf{A} | Ð | | $\mathbf{\infty}$ | | | Ø | ۲ | - | Luun |
| 360° | TRINO | ABBE | HAL | FL-HBO | INFINITY | 230 V | 1 DAY | PH | DF | POLAR | SCALE |

| Model | | | Standard | d configuration | | Price excl. of VAT | | |
|-----------|--------------------------------------|-----------------|-------------------|-------------------------|---|-----------------------|--|--|
| KERN | Tube | Eyepiece | Objective quality | | | | | |
| OBN 141 🔤 | Trinocular | WF 10×/Ø 20 mm | Infinity Plan | Av (10v (20v (| LED + 3 W LED Epi Fluorescence (B/G) | 4470,- | | |
| OBN 147 | Trinocular | WF 10×/Ø 20 mm | Infinity Plan | 4×/10×/20×/ 40×/100× | Halogen + 100 W Epi Fluorescence (B/G) | 4390,- 🖖 | | |
| OBN 148 | 148 Trinocular WF 10×/Ø 20 mm | | Infinity Plan | +0// 100/ | Halogen + 100 W Epi Fluorescence (B/G/UV/V) | 5630,- 🕔 | | |
| New model | | Price reduction | | | | | | |

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Compound microscopes

Fluorescence microscope KERN OBN-14

| Model outfit | | | Model KERN | I | Order number | Price/piece |
|---|--|-----------------|--------------|--------------|--------------|-------------------------------|
| | | OBN 141 OBN 147 | | OBN 148 | - | excl. of VAT ex works € |
| | WF 10×/Ø 20 mm | 11 | 11 | 11 | OBB-A1351 | 85,- |
| Eyepieces (23,2 mm) | WF 16×/Ø 13 mm | | 00 | 00 | OBB-A1354 | 45,- |
| | WF 10×/Ø 20 mm (reticule 0,1 mm) (adjustable) | 0 | 0 | 0 | OBB-A1352 | 140,- |
| Infinity Plan achromatic objectives | 4×/0,10 W.D. 12,1 mm | ✓ | ✓ | ✓ | OBB-A1263 | 110,- |
| | 10×/0,25 W.D. 4,64 mm | ✓ | 1 | ✓ | OBB-A1243 | 195,- |
| | 20×/0,40 (spring) W.D. 2,41 mm | ✓ | 1 | ✓ | OBB-A1250 | 265,- |
| | 40×/0,66 (spring) W.D. 0,65 mm | ✓ | 1 | ✓ | OBB-A1257 | 290,- |
| | 100×/1,25 (oil) (spring) W.D. 0,19 mm | | 1 | 1 | OBB-A1240 | 315,- |
| | 2,5×/0,07 W.D. 8,47 mm | 0 | 0 | 0 | OBB-A1247 | 265,- |
| | Plan 60×/0,80 (spring) W.D. 0,33 mm | 0 | 0 | 0 | OBB-A1270 | 360,- |
| Trinocular tube | Siedentopf 30° inclined/360° rotatable Interpupillary distance 50 – 75 mm Light distribution 100:0 Diopter adjustment: Both-sided | * | * | * | | |
| | Butterfly 30° inclined/360° rotatable Interpupillary distance 50 – 75 mm Light distribution 100:0 Diopter adjustment: Both-sided | 0 | 0 | 0 | OBB-A1382 | 520,- |
| Mechanical stage | Stage size W×D 175×145 mm Travel 78×55 mm Coaxial coarse and fine focusing knobs Two slide holder | * | 4 | ~ | | |
| | Abbe N.A. 1,25 center-adjustable (aperture diaphragm) | 1 | 1 | ~ | OBB-A1102 | 85,- |
| Condenser | Swing-out condenser N.A. 0,9/0,13 center-adjustable (aperture diaphragm) | 0 | 0 | 0 | OBB-A1104 | 220,- |
| Darkfield condenser | N.A. 0,85 – 0,91 (dry, paraboloid) | 0 | 0 | 0 0 OB | | 265,- |
| Koehler illumination | 6 V/20 W Halogen spare bulb (transmitted) | ✓ | 1 | ✓ | OBB-A1370 | 25,- |
| Polarising unit | Analyser/Polariser | 0 | 0 | 0 | OBB-A1283 | 265,- |
| | Quintuple hole turret with 10×/20×/40×/100× Infinity-PH-Plan objectives (complete set) | 0 | 0 | 0 | OBB-A1237 | 1570,- |
| | Single unit with ∞ PH-Plan objective 10× | 0 | 0 | 0 | OBB-A1214 | 310,- |
| Phase contrast units | Single unit with ∞ PH-Plan objective 20× | 0 | 0 | 0 | OBB-A1216 | 350,- |
| | Single unit with ∞ PH-Plan objective 40× | 0 | 0 | 0 | OBB-A1218 | 420,- |
| | Single unit with ∞ PH-Plan objective 100× | 0 | 0 | 0 | OBB-A1212 | 510,- |
| | If required, there are several magnification levels, please con | tact our OPTIC | S product ma | anagement te | am | |
| C-Mount | 1× | 0 | 0 | 0 | OBB-A1140 | 100,- |
| | 0,57× (focus adjustable) | 0 | 0 | 0 | OBB-A1136 | 160,- |
| Fluorescence unit | 100 W HBO Epi Fluorescence unit 6-filter disc (UV/V/B/G) including centering objective | | | * | | |
| | 100 W HBO Epi Fluorescence unit, two-hole slide (B/G) including centering objective | | * | | | |
| | 3 W LED Epi Fluorescence unit (B/G) including centering objective | ~ | | | | |
| | Blue | ✓ | ~ | ~ | | |
| Colour filters | Green | 0 | 0 | 0 | OBB-A1188 | 19,- |
| for transmitted illumination | Yellow | 0 | 0 | 0 | OBB-A1165 | 19,- |
| | Gray | 0 | 0 | 0 | OBB-A1183 | 19,- |

 \checkmark = Included with delivery



LAB LINE The inverted biological laboratory microscope – also with fluorescence

Features

- The OCM range stands out through its design which is ergonomic, robust and extremely stable. This design, with its large working distance, is particularly suitable for the monitoring and analysis of cell cultures, for example
- A strong and continuously adjustable 30W halogen illumination unit ensures the optimum illumination in the bright field of your samples. An additional Osram 100 W Epi fluorescence illumination unit is available to you as a fluorescence microscope (OCM 165) for perfect illumination and excitation of your fluorescence samples
- A special Abbe N.A. 0.3 condenser with aperture diaphragm and large working distance of 72 mm guarantees the very best working practise in the bright field and with fluorescence applications
- As standard, the OCM range is fitted with a trinocular eyepiece tube

- The mechanical stage including specimen holder (Ø 118 mm) means that you can work quickly and effectively. Further brackets for petri dishes are included with delivery or available as accessories
- Further options such as, for example, a selection of eyepieces, objectives, specimen holders and other phase contrast units 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

• Research and breeding of cell cultures and tissue cultures



N.A. 0,3 Abbe Condenser with phase contrast slide



Coaxial control knobs for x/y can be fitted either left or right

Applications/Samples

 Particularly for viewing samples in culture vessels (flasks, petri dishes, microtitre plates), translucent, thin, low-contrast, challenging samples (e.g. living mammal cells, tissue, microorganisms if necessary, Immunofluorescence, FISH, DAPI staining etc.)

Technical data

Infinity optical system

- Quintuple nosepiece
- Siedentopf 45° inclined
- · Diopter adjustment: Both-sided

OCM 161

- Overall dimensions W×D×H 304×599×530 mm
- Net weight approx. 13,5 kg

OCM 165

- Overall dimensions W×D×H 304×782×530 mm
- Net weight approx. 21 kg

| STANDARD |) | | | | | | |
|----------|----------|-----|----|--------|-------------------|-------|-------|
| | Δ | Ð | 0 | | $\mathbf{\infty}$ | -• | |
| TRINO | ABBE | HAL | PH | FL-HB0 | INFINITY | 230 V | 1 DAY |

| Model | Standard configuration | | | | | Price excl. of VAT | |
|---------|------------------------|-----------------|-------------------|-----------------|--------------------------------|-----------------------|--|
| KERN | Tube | Eyepiece | Objective quality | Objectives | Illumination | ex works € | |
| OCM 161 | Trinocular | HWF 10×/Ø 22 mm | Infinity Plan | LWD10×/LWD20×/ | 6 V/30 W Halogen (transmitted) | 3180,- 🖖 | |
| OCM 165 | Trinocular | HWF 10×/Ø 22 mm | Infinity Plan | LWD40×/LWD20×PH | | 7790,- 🕚 | |

Inverted microscope KERN OCM-1

| Model outfit | | Mode | I KERN | Order number | Price/piece excl. of VAT |
|---|---|---------|---------|--------------|-------------------------------|
| | | OCM 161 | OCM 165 | - | excl. of VAT ex works € |
| Eyepieces | HWF 10×/Ø 22 mm (adjustable) | | 44 | OBB-A1491 | 90,- |
| (30 mm) | HWF 10×/Ø 20 mm (reticule 0,1 mm) (adjustable) | 0 | 0 | OBB-A1523 | 140,- |
| Infinity Plan achromatic objectives for long working | 4×/0,11 W.D. 12,1 mm | 0 | 0 | OBB-A1493 | 135,- |
| | 10×/0,25 W.D. 8,3 mm | 1 | ✓ | OBB-A1494 | 160,- |
| | 20×/0,40 W.D. 7,2 mm | 1 | ✓ | OBB-A1495 | 215,- |
| distance | 40×/0,60 W.D. 3,4 mm | × | ✓ | OBB-A1496 | 280,- |
| Trinocular tube | 45° inclined Interpupillary distance 48–76 mm Light distribution 100:0 Diopter adjustment: Both-sided | 4 | ~ | | |
| Mechanical stage | Stage size W×D 210×241 mm Travel128×80 mm Coaxial coarse and fine focusing knobs The x/y control knobs can be fitted either left or right Suitable for attaching a 96-hole microtitre plate | * | * | | |
| | Drop specimen holder (ø 110) | × | ✓ | OBB-A1503 | 30,- |
| | Specimen holder for 35 mm culture dish | 0 | 0 | OBB-A1505 | 60,- |
| | Specimen holder for 54 mm culture dish | ✓ | 1 | OBB-A1506 | 60,- |
| | Specimen holder for 65 mm culture dish | 0 | 0 | OBB-A1507 | 60,- |
| Condenser | Abbe N.A. 0,3 (aperture diaphragm), LWD 72 mm | ~ | ~ | | |
| Illumination | 6 V/30 W Halogen spare bulb (transmitted) | ✓ | ✓ | OBB-A1372 | 35,- |
| | Phase contrast slide (universal) | × | ✓ | OBB-A1500 | 100,- |
| | Infinity PH-Plan objective 10× | 0 | 0 | OBB-A1497 | 215,- |
| Phase contrast units | Infinity PH-Plan objective 20× | ✓ | ✓ | OBB-A1498 | 280,- |
| | Infinity PH-Plan objective 40× | 0 | 0 | OBB-A1499 | 330,- |
| | Centering eyepiece | × | ✓ | OBB-A1544 | 110,- |
| Fluorescence unit | 100 W HBO Epi Fluorescence unit, two-hole slide (B/G) | | ~ | | |
| Colour filters for transmitted illumination | Blue | × | ✓ | OBB-A1510 | 19,- |
| | Green | × | ✓ | OBB-A1511 | 19,- |
| | Yellow | 0 | 0 | OBB-A1512 | 19,- |
| | Gray | 0 | 0 | OBB-A1513 | 19,- |
| C Mount | 0,5× | 0 | 0 | OBB-A1515 | 185,- |
| C-Mount | 1× | 0 | 0 | OBB-A1514 | 120,- |

✓ = Included with delivery

O = Option

01

KERN - Tradition and Innovation for over 170 years

An independent family business, KERN since already 8 generations is synonymous with quality and reliability in customer service.

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KERN is founded – precision balances are produced



A proud Gottlieb Kern with his staff



Pharmaceutical balance with Aesculap



Inflation – KERN wages are paid with self printed currency



The electronic balance ousts mechanical devices



Accredited DKD laboratory (ISO 17025)



New premises in Balingen



Existing QM system certification in accordance with DIN EN ISO 9001:2000 standards



Approval for the manufacture of medical products (DIN EN 13485 and 93/42/EEC)



Authorisation for initial verification by the manufacturer (2009/23/EC)



Approval for the manufacture and sale of height rods (DIN EN 13485 and 93/42/EEC)



Verification point for non-automatic balances and test weights.

New customer portal www.kern-sohn.com goes live



Expansion of the product range to include optical instruments (microscopes and refractometers)



Inauguration of Ziegelei 2.0 with computer-controlled high-bay warehouse



Come with KERN into the digital future: Expansion of the model ranges compatible with Industry 4.0, as well as the related services

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