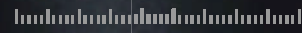


COMPOUND MICROSCOPES



2017



PROFESSIONAL MEASURING

KERN Pictograms

	360° rotatable microscope head		Parallel optical system For stereomicroscopes, enables fatigue-proof working
	Monocular Microscope For the inspection with one eye		Integrated scale In the eyepiece
	Binocular Microscope For the inspection with both eyes		USB 2.0 digital camera For direct transmitting of the picture to a PC
	Trinocular Microscope For the inspection with both eyes and the additional option for the connection of a camera		USB 3.0 digital camera For direct transmitting of the picture to a PC
	Abbe Condenser With high numerical aperture for the concentration and the focusing of light		HDMI digital camera For direct transmitting of the picture to a display device
	Halogen illumination For pictures bright and rich in contrast		SD card For data storage
	LED illumination Cold, energy saving and especially long-life illumination		PC software To transfer the measurements from the device to a PC.
	Incident illumination For non-transparent objects		Automatic temperature compensation For measurements between 10 °C and 30 °C
	Transmitting illumination For transparent objects		Protection against dust and water splashes IPxx The type of protection is shown by the pictogram.
	Fluorescence illumination For stereomicroscopes		Battery operation Ready for battery operation. The battery type is specified for each device.
	Fluorescence illumination for compound microscopes With 100W mercury lamp and filter		Battery operation rechargeable Prepared for a rechargeable battery operation
	Fluorescence illumination for compound microscopes With 3 W LED illumination and filter		Mains adapter 230V/50Hz in standard version for EU. On request GB, AUS or USA version.
	Phase contrast unit For a higher contrast		Power supply Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, AUS or USA on request.
	Darkfield condenser/unit For a higher contrast due to indirect illumination		Package shipment The time required to manufacture the product internally is shown in days in the pictogram.
	Polarising unit To polarise the light		Warranty The warranty period is shown in the pictogram.
	Infinity system Infinity corrected optical system		
	Zoom magnification For stereomicroscopes		

Abbreviations

C-Mount	Adapter for the connection of a camera to a trinocular microscope	SLR camera	Single-Lens Reflex camera
FPS	Frames per second	SWF	Super Wide Field (Field number at least \varnothing 23 mm for 10 \times eyepiece)
H(S)WF	High (Super) Wide Field (Eyepiece with high eye point for wearers of glasses)	W.D.	Working Distance
LWD	Long Working Distance	WF	Wide Field (Field number up to \varnothing 22 mm for 10 \times eyepiece)
N.A.	Numerical Aperture		

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 ergonomics 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 2017: 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 2017 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	reliable	versatile
<ul style="list-style-type: none">• 24 hours delivery service – order today, on its way tomorrow• Sales & service hotline from 8:00 am to 5:00 pm	<ul style="list-style-type: none">• 3 years warranty for instruments over € 400,-• Certified QM system DIN EN ISO 9001:2008	<ul style="list-style-type: none">• 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	 E-mail order info@kern-sohn.com	 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.
 Service hotline +49 [0] 7433 9933-199	 Fax Order +49 [0] 7433 9933-146	
 Online shop www.kern-sohn.com	 Our team of consultants will assist you from Monday to Friday from 8:00 am to 5:00 pm	

1 Compound microscopes

Compound, Phase contrast, Digital, Fluorescence and Inverted microscopes





Objectives OBS

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.
- 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 charts.

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 130x300x310 mm
- Net weight approx. 3 kg

STANDARD



OBS 104
OBS 106

Model	Standard configuration						Price excl. of VAT ex works €
	Tube	Eyepiece	Objective quality	Objectives	Illumination	Stage	
OBS 101	Monocular	WF 10×/∅ 18 mm	Achromatic	4×/10×/40×	0,5W LED (transmitted) (battery incl., rechargeable)	fix	205,-
OBS 104	Binocular	WF 10×/∅ 18 mm	Achromatic		0,5W LED (transmitted) (battery incl., rechargeable)	fix	330,-
OBS 106	Binocular	WF 10×/∅ 18 mm	Achromatic		0,5W LED (transmitted) (battery incl., rechargeable)	mechanical	365,-

Compound microscope KERN OBS-1

Model outfit		Model KERN			Order number	Price/piece excl. of VAT ex works €
		OBS 101	OBS 104	OBS 106		
Eyepieces (23,2 mm)	WF 10×/∅ 18 mm	✓	✓✓	✓✓	OBB-A1473	30,-
	WF 16×/∅ 13 mm	○	○○	○○	OBB-A1474	30,-
	WF 20×/∅ 11 mm	○	○○	○○	OBB-A1475	30,-
	WF 10×/∅ 18 mm (with Pointer)	○	○	○	OBB-A1348	40,-
Achromatic objectives	4×/0,10 W.D. 18,0 mm	✓	✓	✓	OBB-A1476	25,-
	10×/0,25 W.D. 7,0 mm	✓	✓	✓	OBB-A1477	30,-
	40×/0,65 (spring) W.D. 0,53 mm	✓	✓	✓	OBB-A1478	35,-
	60×/0,85 (spring) W.D. 0,1 mm	○	○	○	OBB-A1479	50,-
	100×/1,25 (oil) (spring) W.D. 0,07 mm	○	○	○	OBB-A1480	65,-
	E-Plan 100×/0,80 (dry) (spring) W.D. 0,15 mm	○	○	○	OBB-A1442	170,-
	Plan 100×/1,0 (water) (spring) W.D. 0,18 mm	○	○	○	OBB-A1441	170,-
Monocular tube	45° inclined/360° rotatable	✓			OBB-A1471	
Binocular tube	<ul style="list-style-type: none"> • 30° inclined/360° rotatable • Interpupillary distance 55-75 mm • Diopter adjustment: Both-sided 		✓	✓	OBB-A1472	
Fixed stage	<ul style="list-style-type: none"> • Stage size W×D 110×120 mm • Coaxial coarse and fine focusing knobs, scale: 2,5 µm 	✓	✓			
Mechanical stage	<ul style="list-style-type: none"> • Stage size W×D 115×125 mm • Travel 75x18 mm • Coaxial coarse and fine focusing knobs, scale: 2,5 µm 			✓		
Condenser	Simple condenser N.A. 0,65	✓				
	Abbe N.A. 1,25 (aperture diaphragm)		✓	✓		
Illumination	0,5 W LED illumination system (transmitted) (rechargeable)	✓	✓	✓		
Colour filters for transmitted illumination	Blue	✓	✓	✓	OBB-A1466	19,-
	Green	○	○	○	OBB-A1467	19,-
	Yellow	○	○	○	OBB-A1468	19,-
	Gray	○	○	○	OBB-A1184	19,-

✓ = Included with delivery

○ = Option



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 mechanical stage is carried out using a coarse and fine focusing knob on both

- 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 charts.

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 WxDxH 320x180x365 mm
- Net weight approx. 5,5 kg

STANDARD										OPTION			
						OBE 103, OBE 113		OBE 101					

Model	Standard configuration					Price excl. of VAT ex works €
	Tube	Eyepiece	Objective quality	Objectives	Illumination	
OBE 101 <small>NEW</small>	Monocular	WF 10x/ø 18 mm	Achromatic	4x/10x/40x	3 W LED (transmitted)	390,-
OBE 102 <small>NEW</small>	Binocular	WF 10x/ø 18 mm	Achromatic		3 W LED (transmitted)	485,-
OBE 103 <small>NEW</small>	Binocular	WF 10x/ø 18 mm	Achromatic		3 W LED (transmitted) (battery incl., rechargeable)	555,-
OBE 104 <small>NEW</small>	Trinocular	WF 10x/ø 18 mm	Achromatic	4x/10x/40x/100x	3 W LED (transmitted)	595,-
OBE 111	Monocular	WF 10x/ø 18 mm	Achromatic		3 W LED (transmitted)	450,-
OBE 112	Binocular	WF 10x/ø 18 mm	Achromatic		3 W LED (transmitted)	550,-
OBE 113	Binocular	WF 10x/ø 18 mm	Achromatic		3 W LED (transmitted) (battery incl., rechargeable)	620,- <small>↓</small>
OBE 114 <small>NEW</small>	Trinocular	WF 10x/ø 18 mm	Achromatic		3 W LED (transmitted)	660,-

NEW New model

↓ Price reduction

Compound microscope KERN OBE-1

Model outfit		Model KERN				Order number	Price/piece excl. of VAT ex works €
		OBE 101	OBE 102	OBE 103	OBE 104		
Eyepieces (23,2 mm)	WF 10×/∅ 18 mm	✓	✓✓	✓✓	✓✓	OBB-A1347	40,-
	WF 16×/∅ 13 mm	○	○○	○○	○○	OBB-A1354	45,-
	WF 10×/∅ 18 mm (with Pointer)	○	○	○	○	OBB-A1348	40,-
	WF 10×/∅ 18 mm (reticule 0,1 mm) (non-adjustable)	○	○	○	○	OBB-A1349	60,-
Achromatic objectives	4×/0,10 W.D. 18,6 mm	✓	✓	✓	✓	OBB-A1111	35,-
	10×/0,25 W.D. 6,5 mm	✓	✓	✓	✓	OBB-A1108	45,-
	40×/0,65 (spring) W.D. 0,47 mm	✓	✓	✓	✓	OBB-A1112	70,-
	100×/1,25 (oil) (spring) W.D. 0,07 mm	○	○	○	○	OBB-A1109	105,-
	20×/0,40 (spring) W.D. 1,75 mm	○	○	○	○	OBB-A1110	85,-
	60×/0,85 (spring) W.D. 0,1 mm	○	○	○	○	OBB-A1113	105,-
	E-Plan 100×/0,80 (dry) (spring) W.D. 0,15 mm	○	○	○	○	OBB-A1442	170,-
	Plan 100×/1,0 (water) (spring) W.D. 0,18 mm	○	○	○	○	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)	✓	✓	✓	✓	OBB-A1101	85,-
Darkfield unit	Usable for 4×–40× objectives	○	○	○	○	OBB-A1148	85,-
Polarising unit	Analyser/Polariser	○	○	○	○	OBB-A1276	265,-
Illumination	3 W LED illumination system (transmitted) (non-rechargeable)	✓	✓		✓		
	3 W LED illumination system (transmitted) (rechargeable)			✓			
Colour filters for transmitted illumination	Blue	○	○	○	○	OBB-A1466	19,-
	Green	○	○	○	○	OBB-A1467	19,-
	Yellow	○	○	○	○	OBB-A1468	19,-
	Gray	○	○	○	○	OBB-A1184	19,-
C-Mount	0,5× (focus adjustable)				○	OBB-A1137	160,-
	1×				○	OBB-A1139	100,-

✓ = Included with delivery

○ = Option

Compound microscope KERN OBE-1

Model outfit		Model KERN				Order number	Price/piece excl. of VAT ex works €
		OBE 111	OBE 112	OBE 113	OBE 114		
Eyepieces (23,2 mm)	WF 10×/∅ 18 mm	✓	✓✓	✓✓	✓✓	OBB-A1347	40,-
	WF 16×/∅ 13 mm	○	○○	○○	○○	OBB-A1354	45,-
	WF 10×/∅ 18 mm (with Pointer)	○	○	○	○	OBB-A1348	40,-
	WF 10×/∅ 18 mm (reticule 0,1 mm) (non-adjustable)	○	○	○	○	OBB-A1349	60,-
Achromatic objectives	4×/0,10 W.D. 18,6 mm	✓	✓	✓	✓	OBB-A1111	35,-
	10×/0,25 W.D. 6,5 mm	✓	✓	✓	✓	OBB-A1108	45,-
	40×/0,65 (spring) W.D. 0,47 mm	✓	✓	✓	✓	OBB-A1112	70,-
	100×/1,25 (oil) (spring) W.D. 0,07 mm	✓	✓	✓	✓	OBB-A1109	105,-
	20×/0,40 (spring) W.D. 1,75 mm	○	○	○	○	OBB-A1110	85,-
	60×/0,85 (spring) W.D. 0,1 mm	○	○	○	○	OBB-A1113	105,-
	E-Plan 100×/0,80 (dry) (spring) W.D. 0,15 mm	○	○	○	○	OBB-A1442	170,-
	Plan 100×/1,0 (water) (spring) W.D. 0,18 mm	○	○	○	○	OBB-A1441	170,-
Monocular tube	30° inclined/360° rotatable	✓				OBB-A1227	
Binocular tube	<ul style="list-style-type: none"> • Siedentopf 30° inclined/360° rotatable • Interpupillary distance 50–75 mm • Diopter adjustment: One-sided 		✓	✓		OBB-A1123	
Trinocular tube	<ul style="list-style-type: none"> • see binocular tube • Light distribution 20:80 				✓	OBB-A1341	
Mechanical stage	<ul style="list-style-type: none"> • 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)	✓	✓	✓	✓	OBB-A1101	85,-
Darkfield unit	Usable for 4×–40× objectives	○	○	○	○	OBB-A1148	85,-
Polarising unit	Analyser/Polariser	○	○	○	○	OBB-A1276	265,-
Illumination	3 W LED illumination system (transmitted) (non-rechargeable)	✓	✓		✓		
	3 W LED illumination system (transmitted) (rechargeable)			✓			
Colour filters for transmitted illumination	Blue	○	○	○	○	OBB-A1466	19,-
	Green	○	○	○	○	OBB-A1467	19,-
	Yellow	○	○	○	○	OBB-A1468	19,-
	Gray	○	○	○	○	OBB-A1184	19,-
C-Mount	0,5× (focus adjustable)				○	OBB-A1137	160,-
	1×				○	OBB-A1139	100,-

✓ = Included with delivery

○ = Option



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 charts.

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)

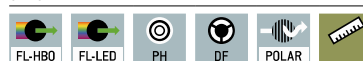
Technical data

- 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

STANDARD



OPTION



Model	Standard configuration					Price excl. of VAT ex works €
	Tube	Eyepiece	Objective quality	Objectives	Illumination	
OBF 121	Binocular	WF 10×/ø 18 mm	Achromatic	4×/10×/40×/100×	6 V/20 W Halogen (transmitted)	760,- ↓
OBF 122	Binocular	WF 10×/ø 18 mm	Plan		6 V/20 W Halogen (transmitted)	870,- ↓
OBF 123	Binocular	WF 10×/ø 18 mm	Plan		3 W LED (transmitted)	850,- ↓
OBF 131 <small>NEW</small>	Trinocular	WF 10×/ø 18 mm	Achromatic		6 V/20 W Halogen (transmitted)	870,-
OBF 132 <small>NEW</small>	Trinocular	WF 10×/ø 18 mm	Plan		6 V/20 W Halogen (transmitted)	980,-
OBF 133 <small>NEW</small>	Trinocular	WF 10×/ø 18 mm	Plan		3 W LED (transmitted)	960,-

NEW New model

↓ Price reduction

Model outfit		Model KERN						Order number	Price/piece excl. of VAT ex works €
		OBF 121	OBF 131	OBF 122	OBF 132	OBF 123	OBF 133		
Eyepieces (23,2 mm)	WF 10×/∅ 18 mm	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	OBB-A1347	40,-
	WF 16×/∅ 13 mm	○	○	○	○	○	○	OBB-A1354	45,-
	WF 10×/∅ 18 mm (with Pointer)	○	○	○	○	○	○	OBB-A1348	40,-
	WF 10×/∅ 18 mm (reticule 0,1 mm) (non-adjustable)	○	○	○	○	○	○	OBB-A1349	60,-
	WF 10×/∅ 18 mm (reticule 0,1 mm) (adjustable)	○	○	○	○	○	○	OBB-A1350	90,-
Achromatic objectives	4×/0,10 W.D. 18,6 mm	✓	✓					OBB-A1111	35,-
	10×/0,25 W.D. 6,5 mm	✓	✓					OBB-A1108	45,-
	40×/0,65 (spring) W.D. 0,47 mm	✓	✓					OBB-A1112	70,-
	100×/1,25 (oil) (spring) W.D. 0,07 mm	✓	✓					OBB-A1109	105,-
	20×/0,40 (spring) W.D. 1,75 mm	○	○					OBB-A1110	85,-
	60×/0,85 (spring) W.D. 0,1 mm	○	○					OBB-A1113	105,-
Plan objectives	4×/0,10 W.D. 14,5 mm			✓	✓	✓	✓	OBB-A1255	55,-
	10×/0,25 W.D. 5,65 mm			✓	✓	✓	✓	OBB-A1238	75,-
	40×/0,65 (spring) W.D. 0,85 mm			✓	✓	✓	✓	OBB-A1256	115,-
	100×/1,25 (oil) (spring) W.D. 0,07 mm			✓	✓	✓	✓	OBB-A1239	150,-
	20×/0,40 (spring) W.D. 1,5 mm			○	○	○	○	OBB-A1249	115,-
	60×/0,85 (spring) W.D. 0,07 mm			○	○	○	○	OBB-A1269	155,-
	100×/1,0 (water) (spring) W.D. 0,18 mm	○	○	○	○	○	○	OBB-A1441	170,-
Binocular tube	<ul style="list-style-type: none"> • Siedentopf 30° inclined/360° rotatable • Interpupillary distance 50–75 mm (for non-infinity system) • Diopter adjustment: One-sided 	✓	○	✓	○	✓	○	OBB-A1129	
Trinocular tube	<ul style="list-style-type: none"> • Siedentopf 30° inclined/360° rotatable • Interpupillary distance 50–75 mm • Light distribution 20:80 (for non-infinity system) • Diopter adjustment: One-sided 	○	✓	○	✓	○	✓	OBB-A1345	
Mechanical stage	<ul style="list-style-type: none"> • 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)	✓	✓	✓	✓	✓	✓	OBB-A1103	85,-
Darkfield condenser	N.A. 0,85–0,91 (dry)	○	○	○	○	○	○	OBB-A1422	230,-
Illumination	6 V/20 W Halogen spare bulb (transmitted)	✓	✓	✓	✓			OBB-A1370	25,-
	3 W LED illumination system (transmitted) (non-rechargeable)					✓	✓		
Polarising unit	Analyser/Polariser	○	○	○	○	○	○	OBB-A1277	265,-
Colour filters for transmitted illumination	Blue (fitted to the condenser)	✓	✓	✓	✓	✓	✓		
	Green	○	○	○	○	○	○	OBB-A1188	19,-
	Yellow	○	○	○	○	○	○	OBB-A1165	19,-
	Gray	○	○	○	○	○	○	OBB-A1183	19,-
C-Mount	0,47× (focus adjustable)		○		○		○	OBB-A1135	160,-
	1×		○		○		○	OBB-A1142	100,-

✓ = Included with delivery

○ = Option



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 transmitted illumination applications for the most demanding users. 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 charts.

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)

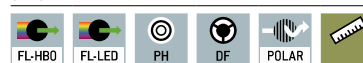
Technical data

- 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

STANDARD



OPTION



Model	Standard configuration					Price excl. of VAT ex works €
	Tube	Eyepiece	Objective quality	Objectives	Illumination	
KERN						
OBL 125	Binocular	WF 10×/ø 20 mm	Infinity E-Plan	4×/10×/40×/100×	6 V/20 W Halogen (transmitted)	920,- ↓
OBL 127	Binocular	WF 10×/ø 20 mm	Infinity E-Plan		3 W LED (transmitted)	920,- ↓
OBL 135 <small>NEW</small>	Trinocular	WF 10×/ø 20 mm	Infinity E-Plan		6 V/20 W Halogen (transmitted)	1030,-
OBL 137 <small>NEW</small>	Trinocular	WF 10×/ø 20 mm	Infinity E-Plan		3 W LED (transmitted)	1030,-

NEW New model

↓ Price reduction

Model outfit		Model KERN				Order number	Price/piece excl. of VAT ex works €
		OBL 125	OBL 135	OBL 127	OBL 137		
Eyepieces (23,2 mm)	WF 10×/ø 20 mm	✓✓	✓✓	✓✓	✓✓	OBB-A1351	85,-
	WF 16×/ø 13 mm	○	○	○	○	OBB-A1354	45,-
	WF 10×/ø 20 mm (with Pointer)	○	○	○	○	OBB-A1448	80,-
	WF 10×/ø 20 mm (reticule 0,1 mm) (adjustable)	○	○	○	○	OBB-A1352	140,-
Infinity E-Plan objectives	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,-
	100×/1,25 (oil) (spring) W.D. 0,19 mm	✓	✓	✓	✓	OBB-A1158	335,-
	Plan 20×/0,40 (spring) W.D. 2,41 mm	○	○	○	○	OBB-A1250	265,-
	Plan 60×/0,80 (spring) W.D. 0,33 mm	○	○	○	○	OBB-A1270	360,-
	Plan 100×/1,15 (water) (spring) W.D. 0,18 mm	○	○	○	○	OBB-A1437	445,-
Binocular tube	<ul style="list-style-type: none"> • Siedentopf 30° inclined/360° rotatable • Interpupillary distance 50–75 mm (for infinity system) • Diopter adjustment: One-sided 	✓	○	✓	○	OBB-A1130	
Trinocular tube	<ul style="list-style-type: none"> • Siedentopf 30° inclined/360° rotatable • Interpupillary distance 50–75 mm • Light distribution 20:80 (for infinity system) • Diopter adjustment: One-sided 	○	✓	○	✓	OBB-A1346	
Mechanical stage	<ul style="list-style-type: none"> • 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)	✓	✓	✓	✓	OBB-A1103	85,-
Darkfield condenser	N.A. 0,85–0,91 (dry)	○	○	○	○	OBB-A1422	230,-
Illumination	6 V/20 W Halogen spare bulb (transmitted)	✓	✓			OBB-A1370	25,-
	3 W LED illumination system (transmitted) (non-rechargeable)			✓	✓		
Polarising unit	Analyser/Polariser	○	○	○	○	OBB-A1277	265,-
Phase contrast units (including PH-condenser and PH-slides)	Single unit with ∞ PH-Plan objective 10×	○	○	○	○	OBB-A1215	320,-
	Single unit with ∞ PH-Plan objective 20×	○	○	○	○	OBB-A1217	360,-
	Single unit with ∞ PH-Plan objective 40×	○	○	○	○	OBB-A1219	430,-
	Single unit with ∞ PH-Plan objective 100×	○	○	○	○	OBB-A1213	520,-
	If required, there are several magnification levels, please contact our OPTICS product management team						
Fluorescence unit	100 W HBO Epi Fluorescence unit, three-hole slide (B/G) including centering objective	○	○	○	○	OBB-A1154	3100,-
	3 W LED Epi Fluorescence unit, three-hole slide (B/G) including centering objective	○	○	○	○	OBB-A1157	3140,-
Colour filters for transmitted illumination	Blue (fitted to the condenser)	✓	✓	✓	✓		
	Green	○	○	○	○	OBB-A1188	19,-
	Yellow	○	○	○	○	OBB-A1165	19,-
	Gray	○	○	○	○	OBB-A1183	19,-
C-Mount	0,47× (focus adjustable)	○	○	○	○	OBB-A1135	160,-
	1×	○	○	○	○	OBB-A1142	100,-

✓ = Included with delivery

○ = Option



NEW



Mounted phase contrast condenser



Simple PH condenser with 40x 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 continuously 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 charts.

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

STANDARD



OPTION



Model	Standard configuration					Price excl. of VAT ex works €
	Tube	Eyepiece	Objective quality	Objectives	Illumination	
KERN						
OBL 145	Binocular	WF 10×/ø 20 mm	Infinity Plan	4×/PH10×/ PH40×/100×	6 V/20 W Halogen (transmitted)	1440,-
OBL 155	Trinocular	WF 10×/ø 20 mm	Infinity Plan		6 V/20 W Halogen (transmitted)	1560,-

Model outfit		Model KERN		Order number	Price/piece excl. of VAT ex works €
		OBL 145	OBL 155		
Eyepieces (23,2 mm)	WF 10×/∅ 20 mm	✓✓	✓✓	OBB-A1351	85,-
	WF 16×/∅ 13 mm	○○	○○	OBB-A1354	45,-
	WF 10×/∅ 20 mm (with Pointer)	○	○	OBB-A1448	80,-
	WF 10×/∅ 20 mm (reticule 0,1 mm) (adjustable)	○	○	OBB-A1352	140,-
Infinity E-Plan objectives	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,-
	100×/1,25 (oil) (spring) W.D. 0,19 mm	✓	✓	OBB-A1158	335,-
	Plan 20×/0,40 (spring) W.D. 2,41 mm	○	○	OBB-A1250	265,-
	Plan 60×/0,80 (spring) W.D. 0,33 mm	○	○	OBB-A1270	360,-
	Plan 100×/1,15 (water) (spring) W.D. 0,18 mm	○	○	OBB-A1437	445,-
Binocular tube	<ul style="list-style-type: none"> • Siedentopf 30° inclined/360° rotatable • Interpupillary distance 50–75 mm (for infinity system) • Diopter adjustment: One-sided 	✓	○	OBB-A1130	
Trinocular tube	<ul style="list-style-type: none"> • Siedentopf 30° inclined/360° rotatable • Interpupillary distance 50–75 mm • Light distribution 20:80 (for infinity system) • Diopter adjustment: One-sided 	○	✓	OBB-A1346	
Mechanical stage	<ul style="list-style-type: none"> • 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,-
Phase contrast units	Infinity PH-Plan objective 10×	✓	✓	OBB-A1390	170,-
	Infinity PH-Plan objective 20×	○	○	OBB-A1391	200,-
	Infinity PH-Plan objective 40×	✓	✓	OBB-A1392	260,-
	Infinity PH-Plan objective 100×	○	○	OBB-A1393	345,-
	PH slide 10×	✓	✓	OBB-A1399	75,-
	PH slide 20×	○	○	OBB-A1400	75,-
	PH slide 40×	✓	✓	OBB-A1401	75,-
	PH slide 100×	○	○	OBB-A1402	75,-
	Centering eyepiece	✓	✓		
Darkfield condenser	N.A. 0,85–0,91 (dry)	○	○	OBB-A1422	230,-
Illumination	6 V/20 W Halogen spare bulb (transmitted)	✓	✓	OBB-A1370	25,-
Colour filters for transmitted illumination	Blue (fitted to the condenser)	✓	✓		
	Green	✓	✓	OBB-A1188	19,-
	Yellow	○	○	OBB-A1165	19,-
	Gray	○	○	OBB-A1183	19,-
C-Mount	0,47× (focus adjustable)		○	OBB-A1135	160,-
	1×		○	OBB-A1142	100,-

For further optional accessories, please see the list of items for the OBL-12 and OBL-13 series from page 16

✓ = Included with delivery

○ = Option



Easy connection to the PC,
Laptop not included in delivery
Please find the description of the
software in chapter 7 (p. 87)

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 continuously 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 charts.

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)

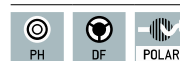
Technical data

- Infinity optical system
- Quadplex nosepiece
- Siedentopf 30° inclined/360° rotatable
- Diopter adjustment: One-sided
- Overall dimensions WxDxH
395x200x430 mm
- Net weight approx. 7 kg

STANDARD



OPTION



Model	Standard configuration					Price excl. of VAT ex works €
	Tube	Eyepiece	Objective quality	Objectives	Illumination	
KERN						
OBD 127	Binocular/3MP digital/USB 2.0	WF 10x/ø 20 mm	Infinity E-Plan	4x/10x/40x/100x	6 V/20 W Halogen (transmitted)	1530,-
OBD 128 <small>NEW</small>	Binocular/5MP digital/USB 2.0	WF 10x/ø 20 mm	Infinity E-Plan		6 V/20 W Halogen (transmitted)	1650,-

NEW New model

Model outfit		Model KERN		Order number	Price/piece excl. of VAT ex works €
		OBD 127	OBD 128		
Eyepieces (23,2 mm)	WF 10×/ø 20 mm	✓✓	✓✓	OBB-A1351	85,-
	WF 16×/ø 13 mm	○○	○○	OBB-A1354	45,-
	WF 10×/ø 20 mm (with Pointer)	○	○	OBB-A1448	80,-
	WF 10×/ø 20 mm (reticule 0,1 mm) (adjustable)	○	○	OBB-A1352	140,-
Infinity E-Plan objectives	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,-
	100×/1,25 (oil) (spring) W.D. 0,19 mm	✓	✓	OBB-A1158	335,-
	Plan 20×/0,40 (spring) W.D. 2,41 mm	○	○	OBB-A1250	265,-
	Plan 60×/0,80 (spring) W.D. 0,33 mm	○	○	OBB-A1270	360,-
	Plan 100×/1,15 (water) (spring) W.D. 0,18 mm	○	○	OBB-A1437	445,-
Digital tube Trinocular (3MP)	<ul style="list-style-type: none"> • 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)	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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)	○	○	OBB-A1422	230,-
Illumination	6 V/20 W Halogen spare bulb (transmitted)	✓	✓	OBB-A1370	25,-
Polarising unit	Analyser/Polariser	○	○	OBB-A1277	265,-
Phase contrast units (including PH-condenser and PH-slides)	Single unit with ∞ PH-Plan objective 10×	○	○	OBB-A1215	320,-
	Single unit with ∞ PH-Plan objective 20×	○	○	OBB-A1217	360,-
	Single unit with ∞ PH-Plan objective 40×	○	○	OBB-A1219	430,-
	Single unit with ∞ PH-Plan objective 100×	○	○	OBB-A1213	520,-
	If required, there are several magnification levels, please contact our OPTICS product management team				
Colour filters for transmitted illumination	Blue (fitted to the condenser)	✓	✓		
	Green	○	○	OBB-A1188	19,-
	Yellow	○	○	OBB-A1165	19,-
	Gray	○	○	OBB-A1183	19,-

✓ = Included with delivery

○ = Option



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 charts.

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)

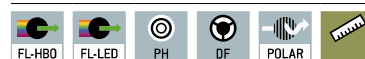
Technical data

- 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

STANDARD



OPTION



Model	Standard configuration					Price excl. of VAT ex works €
	Tube	Eyepiece	Objective quality	Objectives	Illumination	
KERN						
OBN 132	Trinocular	WF 10×/ø 20 mm	Infinity Plan	4×/10×/20×/40×/100×	6 V/20 W Halogen (transmitted)	1390,-
OBN 135 <small>NEW</small>	Trinocular	WF 10×/ø 20 mm	Infinity Plan	40×/100×	3 W LED (transmitted)	1410,-

NEW New model

Price reduction

Model outfit		Model KERN		Order number	Price/piece excl. of VAT ex works €
		OBN 132	OBN 135		
Eyepieces (23,2 mm)	WF 10×/∅ 20 mm	✓✓	✓✓	OBB-A1351	85,-
	WF 16×/∅ 13 mm	○○	○○	OBB-A1354	45,-
	WF 10×/∅ 20 mm (reticule 0,1 mm) (adjustable)	○	○	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	✓	✓	OBB-A1243	195,-
	20×/0,40 (spring) W.D. 2,41 mm	✓	✓	OBB-A1250	265,-
	40×/0,66 (spring) W.D. 0,65 mm	✓	✓	OBB-A1257	290,-
	100×/1,25 (oil) (spring) W.D. 0,19 mm	✓	✓	OBB-A1240	315,-
	2,5×/0,07 W.D. 8,47 mm	○	○	OBB-A1247	265,-
	Plan 60×/0,80 (spring) W.D. 0,33 mm	○	○	OBB-A1270	360,-
Plan 100×/1,15 (water) (spring) W.D. 0,18 mm	○	○	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	○	○	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,-
	Swing-out condenser N.A. 0,9/0,13 center-adjustable (aperture diaphragm)	○	○	OBB-A1104	220,-
Darkfield condenser	N.A. 0,85–0,91 (dry)	○	○	OBB-A1421	265,-
Koehler illumination	6 V/20 W Halogen spare bulb (transmitted)	✓		OBB-A1370	25,-
	3 W LED illumination system (transmitted) (non-rechargeable)		✓		
Polarising unit	Analyser/Polariser	○	○	OBB-A1283	265,-
Phase contrast units	Quintuple hole turret with 10×/20×/40×/100× Infinity-PH-Plan objectives (complete set)	○	○	OBB-A1237	1590,-
	Single unit with ∞ PH-Plan objective 10×	○	○	OBB-A1214	320,-
	Single unit with ∞ PH-Plan objective 20×	○	○	OBB-A1216	360,-
	Single unit with ∞ PH-Plan objective 40×	○	○	OBB-A1218	430,-
	Single unit with ∞ PH-Plan objective 100×	○	○	OBB-A1212	520,-
	If required, there are several magnification levels, please contact our OPTICS product management team				
C-Mount	1×	○	○	OBB-A1140	100,-
	0,57× (focus adjustable)	○	○	OBB-A1136	160,-
Fluorescence unit	100 W HBO Epi Fluorescence unit 6-filter disc (UV/V/B/G) including centering objective	○	○	OBB-A1155	4400,-
	100 W HBO Epi Fluorescence unit, two-hole slide (B/G) including centering objective	○	○	OBB-A1153	3100,-
	3 W LED Epi Fluorescence unit (B/G) including centering objective	○	○	OBB-A1156	3140,-
Colour filters for transmitted illumination	Blue (fitted to the condenser)	✓	✓		
	Green	○	○	OBB-A1188	19,-
	Yellow	○	○	OBB-A1165	19,-
	Gray	○	○	OBB-A1183	19,-

✓ = Included with delivery

○ = Option



NEW



Mounted phase contrast condenser



Quintuple PH universal rotary condenser with 10×/20×/40×/100× Infinity PH-Plan objectives (complete set)

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 charts.

Scope of application

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

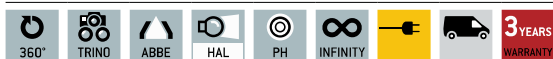
Applications/Samples

- 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



OPTION



Model	Standard configuration					Price excl. of VAT ex works €
	Tube	Eyepiece	Objective quality	Objectives	Illumination	
KERN						
OBN 158	Trinocular	WF 10×/ø 20 mm	Infinity Plan	4×/PH10×/PH20×/PH40×/PH100×	6 V/20 W Halogen (transmitted)	2570,-

Phase contrast microscope KERN OBN-15

Model outfit		Model KERN	Order number	Price/piece excl. of VAT ex works €
		OBN 158		
Eyepieces (23,2 mm)	WF 10×/∅ 20 mm	✓✓	OBB-A1351	85,-
	WF 16×/∅ 13 mm	○ ○	OBB-A1354	45,-
	WF 10×/∅ 20 mm (reticule 0,1 mm) (adjustable)	○	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	○	OBB-A1243	195,-
	20×/0,40 (spring) W.D. 2,41 mm	○	OBB-A1250	265,-
	40×/0,66 (spring) W.D. 0,65 mm	○	OBB-A1257	290,-
	100×/1,25 (oil) (spring) W.D. 0,19 mm	○	OBB-A1240	315,-
	2,5×/0,07 W.D. 8,47 mm	○	OBB-A1247	265,-
	Plan 60×/0,80 (spring) W.D. 0,33 mm	○	OBB-A1270	360,-
Trinocular tube	<ul style="list-style-type: none"> • Siedentopf 30° inclined/360° rotatable • Interpupillary distance 50 – 75 mm • Light distribution 100:0 • Diopter adjustment: Both-sided 	✓		
	<ul style="list-style-type: none"> • Butterfly 30° inclined/360° rotatable • Interpupillary distance 50 – 75 mm • Light distribution 100:0 • Diopter adjustment: Both-sided 	○	OBB-A1382	520,-
Mechanical stage	<ul style="list-style-type: none"> • 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	✓		
Phase contrast units	Infinity PH-Plan objective 10×	✓	OBB-A1390	170,-
	Infinity PH-Plan objective 20×	✓	OBB-A1391	200,-
	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)	○	OBB-A1421	265,-
Koehler illumination	6 V/20 W Halogen spare bulb (transmitted)	✓	OBB-A1370	25,-
Colour filters for transmitted illumination	Blue	○	OBB-A1170	19,-
	Green	✓		
	Yellow	○	OBB-A1165	19,-
	Gray	○	OBB-A1183	19,-
C-Mount	1×	○	OBB-A1140	100,-
	0,57× (focus adjustable)	○	OBB-A1136	160,-

For further optional accessories, please see the list of items for the OBN-13 series from page 22

✓ = Included with delivery

○ = Option



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 20 W halogen illumination unit (Philips) and a 100 W Epi fluorescence illumination unit ensure perfect illumination and excitation of your fluorescence samples.
- 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.
- Depending on the version, in addition to the strong 100 W Epi fluorescence unit a modular filter wheel (up to 6 times) (B/G) or (B/G/UV/V) is integrated into the standard product. By turning this filter wheel you can change the excitation 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 charts.

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.)

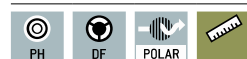
Technical data

- 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



OPTION



Model	Standard configuration					Price excl. of VAT ex works €
	Tube	Eyepiece	Objective quality	Objectives	Illumination	
KERN						
OBN 147	Trinocular	WF 10×/ø 20 mm	Infinity Plan	4×/10×/20×/ 40×/100×	Halogen + 100 W Epi Fluorescence (B/G)	4470,-
OBN 148	Trinocular	WF 10×/ø 20 mm	Infinity Plan	40×/100×	Halogen + 100 W Epi Fluorescence (B/G/UV/V)	5710,-

Fluorescence microscope KERN OBN-14

Model outfit		Model KERN		Order number	Price/piece excl. of VAT ex works €
		OBN 147	OBN 148		
Eyepieces (23,2 mm)	WF 10×/∅ 20 mm	✓✓	✓✓	OBB-A1351	85,-
	WF 16×/∅ 13 mm	○○	○○	OBB-A1354	45,-
	WF 10×/∅ 20 mm (reticule 0,1 mm) (adjustable)	○	○	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	✓	✓	OBB-A1243	195,-
	20×/0,40 (spring) W.D. 2,41 mm	✓	✓	OBB-A1250	265,-
	40×/0,66 (spring) W.D. 0,65 mm	✓	✓	OBB-A1257	290,-
	100×/1,25 (oil) (spring) W.D. 0,19 mm	✓	✓	OBB-A1240	315,-
	2,5×/0,07 W.D. 8,47 mm	○	○	OBB-A1247	265,-
	Plan 60×/0,80 (spring) W.D. 0,33 mm	○	○	OBB-A1270	360,-
Trinocular tube	<ul style="list-style-type: none"> • Siedentopf 30° inclined/360° rotatable • Interpupillary distance 50 – 75 mm • Light distribution 100:0 • Diopter adjustment: Both-sided 	✓	✓		
	<ul style="list-style-type: none"> • Butterfly 30° inclined/360° rotatable • Interpupillary distance 50 – 75 mm • Light distribution 100:0 • Diopter adjustment: Both-sided 	○	○	OBB-A1382	520,-
Mechanical stage	<ul style="list-style-type: none"> • 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,-
	Swing-out condenser N.A. 0,9/0,13 center-adjustable (aperture diaphragm)	○	○	OBB-A1104	220,-
Darkfield condenser	N.A. 0,85 – 0,91 (dry)	○	○	OBB-A1421	265,-
Koehler illumination	6 V/20 W Halogen spare bulb (transmitted)	✓	✓	OBB-A1370	25,-
Polarising unit	Analyser/Polariser	○	○	OBB-A1283	265,-
Phase contrast units	Quintuple hole turret with 10×/20×/40×/100× Infinity-PH-Plan objectives (complete set)	○	○	OBB-A1237	1590,-
	Single unit with ∞ PH-Plan objective 10×	○	○	OBB-A1214	320,-
	Single unit with ∞ PH-Plan objective 20×	○	○	OBB-A1216	360,-
	Single unit with ∞ PH-Plan objective 40×	○	○	OBB-A1218	430,-
	Single unit with ∞ PH-Plan objective 100×	○	○	OBB-A1212	520,-
If required, there are several magnification levels, please contact our OPTICS product management team					
C-Mount	1×	○	○	OBB-A1140	100,-
	0,57× (focus adjustable)	○	○	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	○	○	OBB-A1156	3140,-
Colour filters for transmitted illumination	Blue (fitted to the condenser)	✓	✓		
	Green	○	○	OBB-A1188	19,-
	Yellow	○	○	OBB-A1165	19,-
	Gray	○	○	OBB-A1183	19,-

✓ = Included with delivery

○ = Option



NEW



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



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

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 (∅ 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 charts.

Scope of application

- Research and breeding of cell cultures and tissue cultures

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 304x599x530 mm
- Net weight approx. 13,5 kg

OCM 165

- Overall dimensions W×D×H 304x782x530 mm
- Net weight approx. 21 kg

STANDARD



Model	Standard configuration					Price excl. of VAT ex works €
	Tube	Eyepiece	Objective quality	Objectives	Illumination	
KERN OCM 161	Trinocular	HWF 10×/∅ 22 mm	Infinity Plan	LWD10×/LWD20×/ LWD40×/LWD20×PH	6 V/30 W Halogen (transmitted)	3240,-
OCM 165	Trinocular	HWF 10×/∅ 22 mm	Infinity Plan		6 V/30 W Halogen + 100 W Epi Fluorescence (B/G)	7980,-

Inverted microscope KERN OCM-1

Model outfit		Model KERN		Order number	Price/piece excl. of VAT ex works €
		OCM 161	OCM 165		
Eyepieces (30 mm)	HWF 10×/∅ 22 mm (adjustable)	✓✓	✓✓	OBB-A1491	90,-
Infinity Plan achromatic objectives for long working distance	4×/0,11 W.D. 12,1 mm	○	○	OBB-A1493	135,-
	10×/0,25 W.D. 8,3 mm	✓	✓	OBB-A1494	160,-
	20×/0,40 W.D. 7,2 mm	✓	✓	OBB-A1495	215,-
	40×/0,60 W.D. 3,4 mm	✓	✓	OBB-A1496	280,-
Trinocular tube	<ul style="list-style-type: none"> • 45° inclined • Interpupillary distance 48–76 mm • Light distribution 100:0 • Diopter adjustment: Both-sided 	✓	✓		
Mechanical stage	<ul style="list-style-type: none"> • Stage size W×D 210×241 mm • Travel 128×80 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 (∅ 110)	✓	✓	OBB-A1503	19,-
	Specimen holder for 35 mm culture dish	○	○	OBB-A1505	60,-
	Specimen holder for 54 mm culture dish	✓	✓	OBB-A1506	60,-
	Specimen holder for 65 mm culture dish	○	○	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 units	Phase contrast slide (universal)	✓	✓	OBB-A1500	100,-
	Infinity PH-Plan objective 10×	○	○	OBB-A1497	215,-
	Infinity PH-Plan objective 20×	✓	✓	OBB-A1498	280,-
	Infinity PH-Plan objective 40×	○	○	OBB-A1499	330,-
Fluorescence unit	100 W HBO Epi Fluorescence unit, two-hole slide (B/G)		✓	OBB-A1516	5050,-
Colour filters for transmitted illumination	Blue	✓	✓	OBB-A1510	19,-
	Green	✓	✓	OBB-A1511	19,-
	Yellow	○	○	OBB-A1512	19,-
	Gray	○	○	OBB-A1513	19,-
C-Mount	0,5×	○	○	OBB-A1515	185,-
	1×	○	○	OBB-A1514	120,-

✓ = Included with delivery

○ = Option



Trinocular head



Stage



Phase contrast slide



Coaxial pinion drive for x/y
Coarse and fine height adjustment

1

LAB LINE

The inverted Infinity microscope for high level of requirements and large working distance

Features

- The products in the OCL series are inverted microscopes and will impress you with their stability, ergonomic design and high-quality features. The inverted design means that a large working distance is guaranteed, for example for the analysis of cell cultures.
- A strong and continuously adjustable 30 W halogen transmitted illumination unit (Osram) ensures the optimum illumination of your samples.
- A special Abbe N.A. 0.3 condenser with aperture diaphragm and large working distance of 72 mm guarantees the very best working routine in the bright field and with phase-contrast applications.
- The extremely large stage is configured with two specimen holders as standard, one with a diameter of 110 mm and the other with a clip. The precise coarse and fine focusing knob (on both sides) allows optimal adjustment and focusing of your sample.
- Depending on the model, the OCL series is available for left-handed (OCL 252) or right-handed (OCL 251) operators.
- Further options such as, for example, a large selection of eyepieces, objectives further phase contrast units or a fixed stage can easily be integrated thanks to the modular construction system.
- A dust cover as well as user instructions are included with the 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 charts.

Scope of application

- Research and breeding of cell cultures and tissue cultures

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)

Technical data

- Infinity optical system
- Quintuple nosepiece
- Siedentopf 30° inclined
- Diopter adjustment: Both-sided
- Overall dimensions W×D×H 510×220×530 mm
- Net weight approx. 13 kg

STANDARD



OPTION



Model	Standard configuration					Price excl. of VAT ex works €
	Tube	Eyepiece	Objective quality	Objectives	Illumination	
KERN						
OCL 251	Trinocular	HWF 10×/φ 20 mm	Infinity Plan	10×/20×/40×/ 20×PH	6 V/30 W Halogen (transmitted)	2150,-
OCL 252	Trinocular	HWF 10×/φ 20 mm	Infinity Plan		6 V/30 W Halogen (transmitted)	2150,-

ONLY WHILE STOCKS LAST

Price reduction

Inverted microscope KERN OCL-2

Model outfit		Model KERN		Order number	Price/piece excl. of VAT ex works €
		OCL 251	OCL 252		
Eyepieces (23,2 mm)	HWF 10×/∅ 20 mm	✓✓	✓✓	OBB-A2403	55,-
	WF 16×/∅ 13 mm	○○	○○	OBB-A2406	65,-
	HWF 10×/∅ 18 mm (reticule 0,1 mm)	○	○	OBB-A2404	200,-
	HWF 10×/∅ 20 mm (reticule 0,1 mm)	○	○	OBB-A2410	100,-
	HWF 10×/∅ 22 mm (Only in combination with tube OBB-A2407/OBB-A2408)	○○	○○	OBB-A2409	70,-
Infinity Plan achromatic objectives for long working distance	4×/0,13	○	○	OBB-A2413	90,-
	10×/0,25	✓	✓	OBB-A2414	155,-
	20×/0,40	✓	✓	OBB-A2415	230,-
	40×/0,60	✓	✓	OBB-A2416	325,-
	60×/0,70	○	○	OBB-A2417	420,-
Binocular tube	• Siedentopf 30° inclined • Interpupillary distance 52 – 75 mm • Diopter adjustment: One-sided	○	○	OBB-A2401	135,-
	• Siedentopf 30° inclined, for 22 mm field of view • Interpupillary distance 52 – 75 mm • Diopter adjustment: One-sided (Only in combination with tube OBB-A2409)	○	○	OBB-A2407	170,-
Trinocular tube	• Siedentopf 30° inclined • Interpupillary distance 52 – 75 mm • Light distribution 80:20 • Diopter adjustment: One-sided	✓	✓		
	• Siedentopf 30° inclined, for 22 mm field of view • Interpupillary distance 52 – 75 mm • Light distribution 80:20 • Diopter adjustment: One-sided (Only in combination with tube OBB-A2409)	○	○	OBB-A2408	250,-
Mechanical stage	• Stage size W×D 180×155 mm, • Travel 80×50 mm • Coaxial coarse and fine focusing knobs	Right handed v.	✓		
		Left handed v.		✓	
	Drop specimen holder (∅ 110)	✓	✓	OBB-A2425	60,-
	Specimen holder (Clip)	✓	✓	OBB-A2426	35,-
Fixed stage	Stage size W×D 240×180 mm	○	○	OBB-A2424	165,-
	Drop specimen holder (∅ 110)	○	○	OBB-A2425	60,-
Condenser	Abbe N.A. 0,3 (aperture diaphragm) LWD 72 mm	✓	✓		
Illumination	6 V/30 W Halogen spare bulb (transmitted)	✓	✓	OBB-A2440	35,-
Phase contrast units	Phase contrast slide	✓	✓	OBB-A2432	95,-
	Infinity PH-Plan objective 10×	○	○	OBB-A2418	195,-
	Infinity PH-Plan objective 20×	✓	✓	OBB-A2419	260,-
	Infinity PH-Plan objective 40×	○	○	OBB-A2420	360,-
	Centering telescope	✓	✓	OBB-A2405	95,-
C-Mount	0,5×	○	○	OBB-A2437	85,-
	1×	○	○	OBB-A2438	55,-
	0,25×	○	○	OBB-A2439	115,-
Colour filters for transmitted illumination	Blue	✓	✓	OBB-A2434	19,-
	Green	✓	✓	OBB-A2435	19,-
	Yellow	✓	✓	OBB-A2436	19,-

✓ = Included with delivery

○ = Option



Stage



Camera connection and coaxial coarse and fine focusing knob

PROFESSIONAL LINE

The modular, fully-equipped and extra stable inverted microscope with varied options

Features

- The KERN OCO series is part of the group of inverted microscopes and it stands out through its design which is ergonomic, robust and extremely stable. This design, with its large working distance, is particularly suitable for the analysis of cell cultures, for example.
- A strong and continuously adjustable 30 W halogen transmitted illumination unit (Osram) ensures the optimum illumination of your samples.
- A special Abbe N.A. 0,3 condenser with aperture diaphragm and large working distance of 72 mm guarantees the very best working routine in the bright field and with phase-contrast applications.
- As standard, the KERN OCO series is fitted with a trinocular connection including a 0,5× C-mount adapter which is delivered with the product, and is fitted on the side.
- Depending on the model, there is a choice of a mechanical stage including a specimen holder (∅ 118 mm) or a fixed stage including a specimen holder (∅ 118 mm and ∅ 54 mm for culture petri dishes).
- Further options such as, for example, eyepieces, objectives, specimen holders and further phase contrast units can easily be integrated thanks to the modular construction system.
- A dust cover as well as user instructions are included with the delivery.
- Please find detailed information in the following charts.

Scope of application

- Research and breeding of cell cultures and tissue cultures

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)

Technical data

- Infinity optical system
- Quintuple nosepiece
- Siedentopf 45° inclined
- Diopter adjustment: Both-sided
- Overall dimensions W×D×H 600×350×600 mm
- Net weight approx. 26,5 kg

STANDARD



OPTION



Model	Standard configuration					Price excl. of VAT ex works €
	Tube	Eyepiece	Objective quality	Objectives	Illumination	
KERN						
OCO 255	Trinocular	HWF 10×/∅ 20 mm	Infinity Plan	10×/20×/40×/ 20×PH	6 V/30 W Halogen (transmitted)	3350,- ↓
OCO 256	Trinocular	HWF 10×/∅ 20 mm	Infinity Plan		6 V/30 W Halogen (transmitted)	3350,- ↓

■ ONLY WHILE STOCKS LAST

↓ Price reduction

Inverted microscope KERN OCO-2

Model outfit		Model KERN		Order number	Price/piece excl. of VAT ex works €
		OCO 255	OCO 256		
Eyepieces (23,2 mm)	HWF 10×/∅ 20 mm	✓✓	✓✓	OBB-A2503	55,-
	WF 16×/∅ 13 mm	○○	○○	OBB-A2507	35,-
	HWF 10×/∅ 20 mm (reticule 0,1 mm)	○	○	OBB-A2410	100,-
	HWF 10×/∅ 22 mm	○○	○○	OBB-A2409	70,-
Infinity Plan achromatic objectives for long working distance	4×/0,13	○	○	OBB-A2413	90,-
	10×/0,25	✓	✓	OBB-A2414	155,-
	20×/0,40	✓	✓	OBB-A2415	230,-
	40×/0,60	✓	✓	OBB-A2416	325,-
	60×/0,70	○	○	OBB-A2417	420,-
Binocular tube	• Siedentopf 45° inclined • Interpupillary distance 52 – 75 mm • Diopter adjustment: One-sided	✓	✓		
	• Siedentopf 45° inclined • Interpupillary distance 48 – 75 mm • Diopter adjustment: One-sided	○	○	OBB-A2502	300,-
Mechanical stage	• Stage size W×D 350×208 mm • Travel 50×50 mm • Coaxial coarse and fine focusing knobs		✓		
	Drop specimen holder (∅ 118)		✓	OBB-A2520	95,-
Fixed stage	• Stage size W×D 240×260 mm • Travel 135×85 mm	✓			
	Drop specimen holder (∅ 118)	✓		OBB-A2520	95,-
	Specimen holder for 96-hole microtitre plate	○		OBB-A2521	70,-
	Specimen holder for 30 mm culture dish	○		OBB-A2562	65,-
	Specimen holder for 54 mm culture dish	✓		OBB-A2522	70,-
	Specimen holder for 60 mm culture dish	○		OBB-A2560	65,-
	Specimen holder for 65 mm culture dish	○		OBB-A2561	65,-
Condenser	Abbe N.A. 0,3 (aperture diaphragm) LWD 72 mm	✓	✓		
Illumination	6 V/30 W Halogen spare bulb (transmitted)	✓	✓	OBB-A2440	35,-
Phase contrast units	Phase contrast slide	✓	✓	OBB-A2432	95,-
	Infinity PH-Plan objective 10×	○	○	OBB-A2418	195,-
	Infinity PH-Plan objective 20×	✓	✓	OBB-A2419	260,-
	Infinity PH-Plan objective 40×	○	○	OBB-A2420	360,-
	Centering telescope	✓	✓	OBB-A2506	95,-
C-Mount	0,5×	✓	✓	OBB-A2531	85,-
	0,25×	○	○	OBB-A2532	115,-
Colour filters for transmitted illumination	Blue	✓	✓	OBB-A2434	19,-
	Green	✓	✓	OBB-A2435	19,-
	Yellow	✓	✓	OBB-A2436	19,-

✓ = Included with delivery

○ = Option