

1 Compound microscopes

Compound, Fluorescence, Digital and Inverted microscopes



Compound microscope KERN OBE-1



Monocular OBE 111



Objectives OBE



Simple polarising unit

Darkfield unit

EDUCATIONAL LINE

The robust model for use in school, vocational training and laboratory

Features

- The KERN OBE-1 is a very easy to use, robust and stable educational microscope for all common routine applications.
- Thanks to its dimmable, strong 3W LED light source, it produces impressive images for its class.
- These microscopes are fitted with wide field eyepieces, achromatic objectives, a nosepiece for up to four objectives, a large, fully-fledged stage and an Abbe condenser, all as standard.
- Available as a mono, binocular or trinocular model with diopter adjustment (binocular and trinocular models only).
- Also available in different objective-outfits upon request
- A large selection of different eyepieces and objectives, a simple polarisation unit and a dark field unit are also available.
- Height adjustment is by means of coarse and fine focusses on both sides.
- A rechargeable model, equipped with a long-life battery, is also available.
- One of the central features of this variable and simultaneously robust series of microscopes is the stable and precisely adjustable mechanism. This is underlined by the functional and ergonomic design.

Technical data

- Eyepieces: WF 10x18 mm
- Objectives: 4x / 10x / 40x / 100x
- Quadplex nosepiece
- Tube 360° rotatable / 30° inclined
- Overall dimensions WxDxH 324x191x348 mm
- Net weight approx. 5,5 kg

Please find detailed information in the following charts.

STANDARD



only OBE 113

OPTION



Model	Standard configuration			Price excl. of VAT ex works €
	Optical system	Tube	Illumination	
KERN				
OBE 111	Achromatic	Monocular	3W LED (transmitting)	480,-
OBE 112	Achromatic	Binocular	3W LED (transmitting)	580,-
OBE 113	Achromatic	Binocular	3W LED (transmitting) (rechargeable battery incl., rechargeable)	650,-

Compound microscope KERN OBE-1

Model outfit		Model KERN			Order number	Price excl. of VAT ex works €
		OBE 111	OBE 112	OBE 113		
Eyepieces	WF 10x / Ø 18 mm	●	●●	●●	OBB-A1347	55,-
	WF 10x / Ø 18 mm (with Pointer)	○	○	○	OBB-A1348	55,-
	WF 16x / Ø 13 mm	○	○○	○○	OBB-A1354	55,-
	WF 10x / Ø 18 mm (reticule 0,1 mm) (non-adjustable)	○	○	○	OBB-A1349	80,-
Achromatic objectives	4x / 0,10	●	●	●	OBB-A1111	45,-
	10x / 0,25	●	●	●	OBB-A1108	55,-
	40x / 0,65 (spring)	●	●	●	OBB-A1112	75,-
	100x / 1,25 (oil) (spring)	●	●	●	OBB-A1109	105,-
	20x / 0,40	○	○	○	OBB-A1110	85,-
	60x / 0,85 (spring)	○	○	○	OBB-A1113	105,-
Monocular tube	30° inclined, 360° rotatable	●			OBB-A1227	105,-
Binocular tube	<ul style="list-style-type: none"> · Siedentopf, 30° inclined, 360° rotatable · Interpupillary distance: 50 - 75 mm · With diopter adjustment (one-sided) 		●	●	OBB-A1123	220,-
Nosepiece	Quadplex	●	●	●		
Mechanical stage	<ul style="list-style-type: none"> · Stage size: WxD 125x115 mm · Travel: WxD 50x70 mm 	●	●	●		
Condenser	Abbe N.A. 1,25 (aperture diaphragm)	●	●	●	OBB-A1101	85,-
Darkfield unit	Usable for 4x - 40x objectives	○	○	○	OBB-A1148	85,-
Polarising unit	Analyser / Polariser	○	○	○	OBB-A1276	265,-
Illumination	3W LED illumination system (transmitting) (non-rechargeable)	●	●			
	3W LED illumination system (transmitting) (rechargeable)			●		

● = Standard configuration

○ = Option

Compound microscopes KERN OBF-1 · OBL-1



Trinocular version



Objectives OBF



Simple polarising attachment

Darkfield unit

LAB LINE

The variable model for the flexible user in the laboratory and vocational training

Features

- The KERN OBF-1 and OBL-1 models are excellent and robust laboratory microscopes for all common routine applications.
- Thanks to the simple Koehler illumination, the adjustable field diaphragm and a pre-centred and height adjustable Abbe condenser with adjustable aperture diaphragm, these microscopes produce impressive images in both bright and dark field applications.
- The microscopes are equipped with wide field eyepieces, with achromatic, plan achromatic or infinity corrected E-plan objectives, depending on the model.
- These binocular microscopes are equipped with diopter adjustment.
- Trinocular versions are also available, allowing a camera to be fitted.
- A nosepiece for up to four objectives and a large stage are provided as standard.
- The following optional accessories are available: A variety of eyepieces, objectives, a complete polarisation kit, a phase contrast unit, complete HBO and LED fluorescence kits and more.
- 20W halogen illumination and a 3W LED alternative version are available for illumination.
- One of the central features of this variable and simultaneously robust series of microscopes is the stable and precisely adjustable mechanism.

Technical data

- Eyepieces: WF 10x18 mm / WF 10x20 mm
- Objectives: 4x / 10x / 40x / 100x
- Overall dimensions WxDxH 395x200x380 mm
- Net weight approx. 6,5 kg

Please find detailed information in the following charts.

STANDARD



only OBL

OPTION



Model	Standard configuration			Price excl. of VAT ex works €
	Optical system	Tube	Illumination	
KERN				
OBF 121	Finity	Binocular	6V / 20W Halogen (transmitting)	800,-
OBF 122	Finity	Binocular	6V / 20W Halogen (transmitting)	920,-
OBF 123	Finity	Binocular	3W LED (transmitting)	900,-
OBL 125	Infinity	Binocular	6V / 20W Halogen (transmitting)	970,-
OBL 127	Infinity	Binocular	3W LED (transmitting)	970,-

Compound microscope KERN OBF-1

Model outfit		Model KERN			Order number	Price excl. of VAT ex works €
		OBF 121	OBF 122	OBF 123		
Eyepieces	WF 10x / Ø 18 mm	●●	●●	●●	OBB-A1347	55,-
	WF 16x / Ø 13 mm	○○	○○	○○	OBB-A1354	55,-
	WF 10x / Ø 18 mm (reticule 0,1 mm) (non-adjustable)	○	○	○	OBB-A1349	80,-
	WF 10x / Ø 18 mm (reticule 0,1 mm) (adjustable)	○	○	○	OBB-A1350	100,-
	WF 10x / Ø 20 mm (reticule 0,1 mm) (adjustable)	○	○	○	OBB-A1352	150,-
Achromatic objectives	4x / 0,10	●			OBB-A1111	45,-
	10x / 0,25	●			OBB-A1108	55,-
	40x / 0,65 (spring)	●			OBB-A1112	75,-
	100x / 1,25 (oil) (spring)	●			OBB-A1109	105,-
	20x / 0,40	○	○	○	OBB-A1110	85,-
	60x / 0,85 (spring)	○	○	○	OBB-A1113	105,-
Plan objectives	4x / 0,10		●	●	OBB-A1255	65,-
	10x / 0,25		●	●	OBB-A1238	80,-
	40x / 0,65 (spring)		●	●	OBB-A1256	120,-
	100x / 1,25 (oil) (spring)		●	●	OBB-A1239	150,-
	20x / 0,40		○	○	OBB-A1249	115,-
	60x / 0,85 (spring)		○	○	OBB-A1269	155,-
Binocular tube	<ul style="list-style-type: none"> • Siedentopf, 30° inclined, 360° rotatable • Interpupillary distance: 50 – 75 mm (for non-infinity system) • With diopter adjustment (one-sided) 	●	●	●	OBB-A1129	260,-
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) • With diopter adjustment (one-sided) 	○	○	○	OBB-A1345	370,-
Nosepiece	Quadplex	●	●	●		
Mechanical stage	<ul style="list-style-type: none"> • Stage size: WxD 145x130 mm • Travel: 76x52 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,-
Illumination	6V / 20W Halogen spare bulb (transmitting)	●	●		OBB-A1370	30,-
	3W LED illumination system (transmitting) (non-rechargeable)			●		
Field diaphragm	Field diaphragm	●	●	●		
Darkfield unit	N.A. 0,9 (Dry) Usable for 4x – 40x objectives	○	○	○	OBB-A1149	85,-
Polarising unit	Analyser / Polariser	○	○	○	OBB-A1277	265,-
Fluorescence unit	100W HBO Epi Fluorescence unit, three-hole slide (B / G) including centering objective	○	○	○	OBB-A1154	2350,-
	3W LED Epi Fluorescence unit, three-hole slide (B / G) including centering objective	○	○	○	OBB-A1157	3380,-
Filter	Blue (built-in)	●	●	●	OBB-A1178	30,-
	Green	○	○	○	OBB-A1194	30,-
	Yellow	○	○	○	OBB-A1203	30,-
C-Mount	0,47x (focus adjustable)	○	○	○	OBB-A1135	160,-
	1x	○	○	○	OBB-A1142	115,-

● = Standard configuration

○ = Option

Compound microscope KERN OBL-1

Model outfit		Model KERN		Order number	Price excl. of VAT ex works €
		OBL 125	OBL 127		
Eyepieces	WF 10x / Ø 20 mm	●●	●●	OBB-A1351	95,-
	WF 16x / Ø 13 mm	○○	○○	OBB-A1354	55,-
	WF 10x / Ø 18 mm (reticule 0,1 mm)	○	○	OBB-A1349	80,-
	WF 10x / Ø 18 mm (reticule 0,1 mm) (adjustable)	○	○	OBB-A1350	100,-
	WF 10x / Ø 20 mm (reticule 0,1 mm) (adjustable)	○	○	OBB-A1352	150,-
Infinity E-Plan objectives	4x / 0,10	●	●	OBB-A1161	90,-
	10x / 0,25	●	●	OBB-A1159	145,-
	40x / 0,65 (spring)	●	●	OBB-A1160	260,-
	100x / 1,25 (oil) (spring)	●	●	OBB-A1158	335,-
	Plan 20x / 0,40	○	○	OBB-A1250	260,-
	Plan 60x / 0,85 (spring)	○	○	OBB-A1270	355,-
Binocular tube	<ul style="list-style-type: none"> • Siedentopf, 30° inclined, 360° rotatable • Interpupillary distance: 50 – 75 mm (for infinity system) • With diopter adjustment (one-sided) 	●	●	OBB-A1130	260,-
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) • With diopter adjustment (one-sided) 	○	○	OBB-A1346	370,-
Nosepiece	Quadplex	●	●		
Mechanical stage	<ul style="list-style-type: none"> • Stage size: WxD 145x130 mm • Travel: 76x52 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,-
Illumination	6V / 20W Halogen spare bulb (transmitting)	●		OBB-A1370	30,-
	3W LED illumination system (transmitting) (non-rechargeable)		●		
Field diaphragm	Field diaphragm	●	●		
Darkfield unit	N.A. 0,9 (Dry) Usable for 4x – 40x objectives	○	○	OBB-A1149	85,-
Polarising unit	Analyser / Polariser	○	○	OBB-A1277	265,-
Independent phase contrast unit (including PH-condenser and PH-slides)	Independent slot with ∞ PH-Plan objective 10x	○	○	OBB-A1215	320,-
	Independent slot with ∞ PH-Plan objective 20x	○	○	OBB-A1217	360,-
	Independent slot with ∞ PH-Plan objective 40x	○	○	OBB-A1219	440,-
	Independent slot with ∞ PH-Plan objective 100x	○	○	OBB-A1213	530,-
Fluorescence unit	100W HBO Epi Fluorescence unit, three-hole slide (B / G) including centering objective	○	○	OBB-A1154	2350,-
	3W LED Epi Fluorescence unit, three-hole slide (B / G) including centering objective	○	○	OBB-A1157	3380,-
Filter	Blue	●	●	OBB-A1178	30,-
	Green	○	○	OBB-A1194	30,-
	Yellow	○	○	OBB-A1203	30,-
C-Mount	0,47x (focus adjustable)	○	○	OBB-A1135	160,-
	1x	○	○	OBB-A1142	115,-

● = Standard configuration

○ = Option

Compound microscope KERN OBD-1

1



Easy connection to the PC, Laptop not included in delivery

LAB LINE

The digital model for the flexible user in the laboratory and vocational training

Features

- The KERN OBD-1 is an excellent and robust laboratory microscope with integral, 3 MP camera for all common routine applications.
- English-language software is included.
- Thanks to the simple Koehler illumination, the adjustable field diaphragm and a pre-centred and height adjustable Abbe condenser with adjustable aperture diaphragm, these microscopes produce impressive images.
- The microscopes are equipped with diopter adjustment, wide field eyepieces and infinity corrected E-plan objectives.
- A nosepiece for up to four objectives and a large stage are provided as standard.
- The following optional accessories are available: A complete polarisation kit, a phase contrast unit and a dark field unit.
- One of the central features of this variable and simultaneously robust digital microscopes is the stable and precisely adjustable mechanism.

Technical data

- Eyepieces: WF 10x20 mm
- Objectives: 4x / 10x / 40x / 100x
- Overall dimensions WxDxH 394x185x419 mm
- Net weight approx. 7 kg

Please find detailed information in the following charts.

STANDARD



OPTION



Model	Standard configuration			Price excl. of VAT ex works €
	Optical system	Tube	Illumination	
KERN OBD 127	Infinity	Binocular / digital	6V / 20W Halogen (transmitting)	1600,-

Compound microscope KERN OBD-1

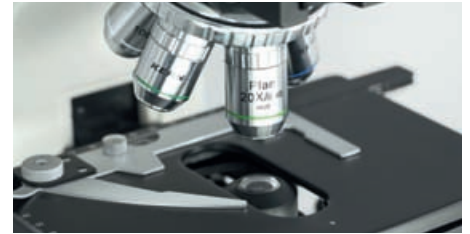
Model outfit		Model KERN	Order number	Price excl. of VAT ex works €
		OBD 127		
Eyepiece	WF 10x / Ø 20 mm	●●	OBB-A1351	95,-
Infinity E-Plan objectives	4x / 0,10	●	OBB-A1161	90,-
	10x / 0,25	●	OBB-A1159	145,-
	40x / 0,65 (spring)	●	OBB-A1160	260,-
	100x / 1,25 (oil) (spring)	●	OBB-A1158	335,-
	Plan 20x / 0,40	○	OBB-A1250	260,-
	Plan 60x / 0,80 (spring)	○	OBB-A1270	355,-
Digital tube Trinocular (3MP)	<ul style="list-style-type: none"> • 30° inclined, 360° rotatable • Interpupillary distance: 50 – 75 mm • With 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 English language software "MicroscopePIC" for Windows XP, 7, Vista 	●	OBB-A1126	760,-
Nosepiece	Quadplex	●		
Mechanical stage	<ul style="list-style-type: none"> • Stage size: WxD 145x130 mm, • Travel: 76x52 mm • Two slide holder 	●		
Condenser	Abbe N.A. 1,25 precentered (aperture diaphragm)	●	OBB-A1103	85,-
Illumination	6V / 20W Halogen spare bulb (transmitting)	●	OBB-A1370	30,-
Field diaphragm	Field diaphragm	●		
Darkfield unit	N.A. 0,9 (Dry) Usable for 4x - 40x objectives	○	OBB-A1149	85,-
Polarising unit	Analyser / Polariser	○	OBB-A1277	265,-
Independent phase contrast unit (including PH-condenser and PH-slides)	Independent slot with ∞ PH-Plan objective 10x	○	OBB-A1215	320,-
	Independent slot with ∞ PH-Plan objective 20x	○	OBB-A1217	360,-
	Independent slot with ∞ PH-Plan objective 40x	○	OBB-A1219	440,-
	Independent slot with ∞ PH-Plan objective 100x	○	OBB-A1213	530,-
Filter	Blue (built-in)	●	OBB-A1178	30,-

● = Standard configuration

○ = Option

Compound microscope KERN OBN-13

1



Nosepiece and stage



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



Quintuple hole turret with 10x / 20x / 40x / 100x Infinity-PH-Plan objectives (complete set)

PROFESSIONAL LINE

The flexible expandable model for the experienced user

Features

- The KERN OBN-13 is an excellent and stable laboratory microscope for all common routine applications for impressive images.
- These trinocular microscopes are equipped with wide field eyepieces with a large field of view, diopter adjustment on both sides and infinity corrected plan achromatic objectives as standard.
- The professional Koehler illumination is easily adjustable. It includes an adjustable field diaphragm, and a centerable and height adjustable Abbe condenser with adjustable aperture diaphragm. This provides impressive images in both bright and dark field applications.
- A nosepiece for up to five objectives and a large stage are provided as standard.
- The following optional accessories are available: A variety of eyepieces, objectives, a complete polarisation kit, a swing-out condenser, diverse phase contrast sets, complete HBO and LED fluorescence kits, and more.
- One of the central features of this highly variable and simultaneously robust series of microscopes is the stable and precisely adjustable mechanism. This is underlined by the functional and ergonomic design.

Technical data

- Eyepieces: WF 10x20 mm
- Objectives: 4x / 10x / 20x / 40x / 100x
- Overall dimensions WxDxH 390x200x400 mm
- Net weight approx. 10 kg

Please find detailed information in the following charts.

STANDARD



OPTION



Model	Standard configuration			Price excl. of VAT ex works €
	Optical system	Tube	Illumination	
KERN				
OBN 132	Infinity	Trinocular	6V / 20W Halogen (transmitting)	1480,-

Compound microscope KERN OBN-13

Model outfit		Model KERN	Order number	Price excl. of VAT ex works €
		OBN 132		
Eyepieces	WF 10x / Ø 18 mm	○○	OBB-A1347	55,-
	WF 10x / Ø 20 mm	●●	OBB-A1351	95,-
	WF 16x / Ø 13 mm	○○	OBB-A1354	55,-
	WF 10x / Ø 18 mm (reticule 0,1 mm) (adjustable)	○	OBB-A1350	100,-
	WF 10x / Ø 20 mm (reticule 0,1 mm) (adjustable)	○	OBB-A1352	150,-
Infinity Plan achromatic objectives	4x / 0,10	●	OBB-A1263	115,-
	10x / 0,25	●	OBB-A1243	190,-
	20x / 0,40	●	OBB-A1250	260,-
	40x / 0,66 (spring)	●	OBB-A1257	280,-
	100x / 1,25 (oil) (spring)	●	OBB-A1240	320,-
	2,5x / 0,07	○	OBB-A1247	265,-
	60x / 0,80 (spring)	○	OBB-A1270	355,-
Tube Binocular	<ul style="list-style-type: none"> • Siedentopf, 30° inclined, 360° rotatable • Interpupillary distance: 50 – 75 mm • With diopter adjustment (both-sided) 	○	OBB-A1125	260,-
Trinocular tube	<ul style="list-style-type: none"> • Siedentopf, 30° inclined, 360° rotatable • Interpupillary distance: 50 – 75 mm • Light distribution: 100:0 • With diopter adjustment (both-sided) 	●	OBB-A1344	420,-
Nosepiece	Quintuple	●		
Mechanical stage	<ul style="list-style-type: none"> • Stage size: WxD 175x145 mm • Travel: 78x55 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	215,-
Koehler illumination	6V / 20W Halogen spare bulb (transmitting)	●	OBB-A1370	30,-
Polarising unit	Analyser / Polariser	○	OBB-A1283	265,-
Phase contrast unit	Quintuple hole turret with 10x / 20x / 40x / 100x Infinity-PH-Plan objectives (complete set)	○	OBB-A1237	1650,-
	Independent slot with ∞ PH-Plan objective 10x	○	OBB-A1214	320,-
	Independent slot with ∞ PH-Plan objective 20x	○	OBB-A1216	360,-
	Independent slot with ∞ PH-Plan objective 40x	○	OBB-A1218	440,-
	Independent slot with ∞ PH-Plan objective 100x	○	OBB-A1212	530,-
Darkfield unit	N.A. 0,9 (Dry) Usable for 4x – 40x objectives	○	OBB-A1150	85,-
C-Mount	1x	○	OBB-A1140	105,-
	0,57x (focus adjustable)	○	OBB-A1136	160,-
Fluorescence unit	100W HBO Epi Fluorescence unit 6-filter disc (UV / V / B / G) including centering objective	○	OBB-A1155	4070,-
	100W HBO Epi Fluorescence unit, two-hole slide (B / G) including centering objective	○	OBB-A1153	2350,-
	3W LED Epi Fluorescence unit (B / G) including centering objective	○	OBB-A1156	3380,-
Field diaphragm	Field diaphragm	●		
Filter	Blue	●	OBB-A1170	30,-
	Green	○	OBB-A1187	30,-
	Yellow	○	OBB-A1201	30,-

● = Standard configuration

○ = Option

Fluorescence microscope KERN OBN-14



OBN 147



Illumination unit



Quintuple filter disc OBN 148

PROFESSIONAL LINE

The fluorescing model for the flexible and professional user

Features

- The KERN OBN-14 is based on the basic KERN OBN-13 model.
- It is an excellent and stable laboratory microscope for all common routine applications in light and fluorescence microscopy, providing impressive images.
- These trinocular microscopes are equipped with wide field eyepieces with a large field of view, diopter adjustment on both sides and infinity corrected plan achromatic objectives as standard.
- Either blue / green or blue / green / UV / V fluorescence filters, and a centering objective for the fluorescence illumination are included with the microscope, depending on the model.
- The professional Koehler illumination is easily adjustable. It includes an adjustable field diaphragm, and a centerable and height

adjustable Abbe condenser with adjustable aperture diaphragm. This provides impressive images in either bright or dark field applications.

- A nosepiece for up to 5 objectives and a large stage are also provided as standard.
- The following optional accessories are available: A variety of eyepieces, objectives, a complete polarisation kit, a swing-out condenser, a phase contrast set, and more.
- One of the central features of this highly variable and simultaneously robust series of fluorescence microscopes is the stable and precisely adjustable mechanism. This is underlined by the functional and ergonomic design.

Technical data

- Eyepieces: WF 10x20 mm
- Objectives: 4x / 10x / 20x / 40x / 100x
- Overall dimensions
WxDxH 306x200x460 mm
- Net weight approx. 17 kg

Please find detailed information in the following charts.

STANDARD



OPTION



Model	Standard configuration			Price excl. of VAT ex works €
	Optical system	Tube	Illumination	
KERN				
OBN 147	Infinity	Trinocular	Halogen + 100W Epi Fluorescence (B / G)	3860,-
OBN 148	Infinity	Trinocular	Halogen + 100W Epi Fluorescence (B / G / UV / V)	5490,-

Fluorescence microscope KERN OBN-14

Model outfit		Model KERN		Order number	Price excl. of VAT ex works €
		OBN 147	OBN 148		
Eyepieces	WF 10x / Ø 20 mm	●●	●●	OBB-A1351	95,-
	WF 16x / Ø 13 mm	○○	○○	OBB-A1354	55,-
	WF 10x / Ø 18 mm (reticule 0,1 mm) (adjustable)	○	○	OBB-A1350	100,-
	WF 10x / Ø 20 mm (reticule 0,1 mm) (adjustable)	○	○	OBB-A1352	150,-
Infinity Plan achromatic objectives	4x / 0,10	●	●	OBB-A1263	115,-
	10x / 0,25	●	●	OBB-A1243	190,-
	20x / 0,40	●	●	OBB-A1250	260,-
	40x / 0,66 (spring)	●	●	OBB-A1257	280,-
	100x / 1,25 (oil) (spring)	●	●	OBB-A1240	320,-
	2,5x / 0,07	○	○	OBB-A1247	265,-
	60x / 0,80 (spring)	○	○	OBB-A1270	355,-
Binocular tube	<ul style="list-style-type: none"> • Siedentopf, 30° inclined, 360° rotatable • Interpupillary distance: 50 – 75 mm • With diopter adjustment (both-sided) 	○	○	OBB-A1125	260,-
Trinocular tube	<ul style="list-style-type: none"> • Siedentopf, 30° inclined, 360° rotatable • Interpupillary distance: 50 – 75 mm • Light distribution: 100:0 • With diopter adjustment (both-sided) 	●	●	OBB-A1344	420,-
Nosepiece	Quintuple	●	●		
Mechanical stage	<ul style="list-style-type: none"> • Stage size: WxD 175x145 mm, Travel: 78x55 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	215,-
Koehler illumination	6V / 20W Halogen spare bulb (transmitting)	●	●	OBB-A1370	30,-
Polarising unit	Analyser / Polariser	○	○	OBB-A1283	265,-
Phase contrast unit	Quintuple hole turret with 10x / 20x / 40x / 100x Infinity-PH-Plan objectives (complete set)	○	○	OBB-A1237	1650,-
	Independent slot with ∞ PH-Plan objective 10x	○	○	OBB-A1214	320,-
	Independent slot with ∞ PH-Plan objective 20x	○	○	OBB-A1216	360,-
	Independent slot with ∞ PH-Plan objective 40x	○	○	OBB-A1218	440,-
	Independent slot with ∞ PH-Plan objective 100x	○	○	OBB-A1212	530,-
Darkfield unit	N.A. 0,9 (Dry) Usable for 4x – 40x objectives	○	○	OBB-A1150	85,-
C-Mount	1x	○	○	OBB-A1140	105,-
	0,57x (focus adjustable)	○	○	OBB-A1136	160,-
Fluorescence unit	100W HBO Epi Fluorescence unit 6-filter disc (UV / V / B / G) including centering objective		●	OBB-A1155	4070,-
	100W HBO Epi Fluorescence unit, two-hole slide (B / G) including centering objective	●		OBB-A1153	2350,-
Field diaphragm	Field diaphragm	●	●		
Filter	Blue	●	●	OBB-A1170	30,-
	Green	○	○	OBB-A1187	30,-
	Yellow	○	○	OBB-A1201	30,-

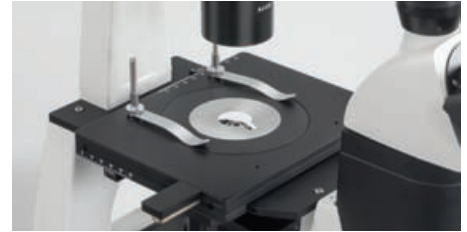
● = Standard configuration

○ = Option

Inverted microscope KERN OCL-2



Trinocular head



Stage



Phase contrast slide

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

LAB LINE

The variable inverted model for the flexible user in vocational training and the laboratory

Features

- The KERN OCL-2 is a very easy to use, robust and stable inverted microscope for all common routine applications, producing impressive images.
- These trinocular microscopes are equipped with wide field eyepieces with a large field of view, diopter adjustment and infinity corrected plan achromatic objectives as standard.
- A nosepiece for up to 5 objectives, a large, mechanically adjusted stage and a phase contrast set are also provided as standard with the microscope.
- The Abbe condenser with its aperture diaphragm and the long 72 mm working distance, together with the fine, 0,001 mm scale focus, sets standards in this microscope class.
- The following optional accessories are available: A variety of eyepieces, objectives for a large working distance, a fixed stage and much more.
- One of the central features of this variable and simultaneously robust series of inverted microscopes is the stable and precisely adjustable mechanism.
- This model is available for both, right- and lefthanded persons.

Technical data

- Eyepieces: HWF 10x20 mm
- Objectives: 10x / 20x / 40x und 20xPH
- Overall dimensions WxDxH 220x510x530 mm
- Net weight approx. 13 kg

OCL 251

- Right handed version

OCL 252

- Left handed version

Please find detailed information in the following charts.

STANDARD



OPTION



Model	Standard configuration			Price excl. of VAT ex works €
	Optical system	Tube	Illumination	
KERN				
OCL 251	Infinity	Trinocular	6V / 30W Halogen (transmitting)	3100,-
OCL 252	Infinity	Trinocular	6V / 30W Halogen (transmitting)	3100,-

Inverted microscope KERN OCL-2

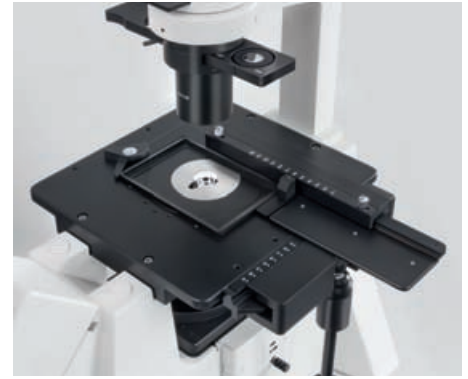
Model outfit		Model KERN		Order number	Price excl. of VAT ex works €	
		OCL 251	OCL 252			
Eyepieces	HWF 10x / Ø 20 mm		●●	●●	OBB-A2403	55,-
	WF 16x / Ø 13 mm		○○	○○	OBB-A2406	40,-
	HWF 10x / Ø 18 mm (reticule 0,1 mm)		○	○	OBB-A2404	190,-
	HWF 10x / Ø 20 mm (reticule 0,1 mm)		○	○	OBB-A2410	110,-
	HWF 10x / Ø 22 mm (Only in combination with tube OBB-A2407 / OBB-A2408)		○○	○○	OBB-A2409	70,-
Infinity Plan achromatic objectives (for long working distance)	4x / 0,13		○	○	OBB-A2413	100,-
	10x / 0,25		●	●	OBB-A2414	160,-
	20x / 0,40		●	●	OBB-A2415	225,-
	40x / 0,60		●	●	OBB-A2416	325,-
	60x / 0,70		○	○	OBB-A2417	425,-
Binocular tube	<ul style="list-style-type: none"> • 30° inclined • Interpupillary distance: 52 – 75 mm • With diopter adjustment (one-sided) 		○	○	OBB-A2401	135,-
	<ul style="list-style-type: none"> • 30° inclined • Interpupillary distance: 52 – 75 mm • With diopter adjustment (one-sided) • (Only in combination with tube OBB-A2409) 		○	○	OBB-A2407	160,-
Trinocular tube	<ul style="list-style-type: none"> • 30° inclined • Interpupillary distance: 52 – 75 mm • Light distribution: 80:20 • With diopter adjustment (one-sided) 		●	●	OBB-A2402	205,-
	<ul style="list-style-type: none"> • 30° inclined • Interpupillary distance: 52 – 75 mm • Light distribution: 80:20 • With diopter adjustment (one-sided) • (Only in combination with tube OBB-A2409) 		○	○	OBB-A2408	245,-
Nosepiece	Quintuple		●	●		
Mechanical stage	<ul style="list-style-type: none"> • Stage size: WxD 180x155 mm, • Travel: 80x50 mm • Coaxial coarse and fine focusing knobs 	Right handed v.	●			
		Left handed v.		●		
	Drop specimen holder (Ø 110)		●	●	OBB-A2425	65,-
Specimen holder (Clip)		●	●	OBB-A2426	50,-	
Fixed stage	Stage size: WxD 240x180 mm		○	○	OBB-A2424	150,-
	Drop specimen holder (Ø 110)		○	○	OBB-A2425	65,-
Condenser	Abbe N.A. 0,3 (aperture diaphragm), LWD 72 mm		●	●		
Illumination	6V / 30W Halogen spare bulb (transmitting)		●	●	OBB-A2440	55,-
Phase contrast unit	Phase contrast slide		●	●	OBB-A2432	105,-
	Infinity plan achromatic PH-objective 10x		○	○	OBB-A2418	190,-
	Infinity plan achromatic PH-objective 20x		●	●	OBB-A2419	260,-
	Infinity plan achromatic PH-objective 40x		○	○	OBB-A2420	360,-
	Centering telescope		●	●	OBB-A2405	95,-
C-Mount	0,5x		○	○	OBB-A2437	85,-
	1x		○	○	OBB-A2438	55,-
	0,25x		○	○	OBB-A2439	115,-
Filter	Filter holder		●	●	OBB-A1357	55,-
	Blue (Ø 34 mm)		●	●	OBB-A2434	35,-
	Green (Ø 34 mm)		●	●	OBB-A2435	35,-
	Yellow (Ø 34 mm)		●	●	OBB-A2436	35,-

● = Standard configuration

○ = Option

Inverted microscope KERN OCO-2

1



Stage



Camera connection and coaxial coarse and fine focusing knob

PROFESSIONAL LINE

The professional inverted model for the experienced user in the laboratory

Features

- The KERN OCO-2 models are very easy to use, robust and stable inverted microscopes for all common routine applications, producing impressive images.
- These binocular microscopes are equipped with wide field eyepieces with a large field of view, diopter adjustment and infinity corrected plan achromatic objectives as standard.
- A nosepiece for up to 5 objectives, a camera mount including a 0,5x C mount adapter and a phase contrast set are also provided as standard with the microscope.
- A large, mechanically adjustable or fixed stage is fitted, depending on the model.
- The Abbe condenser with its aperture diaphragm and the long 72 mm working distance, together with the fine, 0,001 mm scale focus, round off the features of this high-quality microscope.
- The following optional accessories are available: A variety of eyepieces, objectives for a large working distance, a fixed stage and much more.
- One of the central features of this variable and simultaneously robust series of inverted microscopes is the stable and precisely adjustable mechanism.

Technical data

- Eyepieces: WF 10x20 mm
- Objectives: 10x / 20x / 40x und 20xPH
- Connection for cameras
- Overall dimensions WxDxH 350x600x600 mm
- Net weight approx. 26,5 kg

Please find detailed information in the following charts.

STANDARD



OPTION



Model	Standard configuration			Price excl. of VAT ex works €
	Optical system	Tube	Illumination	
KERN				
OCO 255	Infinity	Binocular	6V / 30W Halogen (transmitting)	4930,-
OCO 256	Infinity	Binocular	6V / 30W Halogen (transmitting)	5135,-

Inverted microscope KERN OCO-2

Model outfit		Model KERN		Order number	Price excl. of VAT ex works €
		OCO 255	OCO 256		
Eyepieces	HWF 10x / Ø 20 mm	●●	●●	OBB-A2503	55,-
	WF 16x / Ø 13 mm	○○	○○	OBB-A2507	35,-
	HWF 10x / Ø 20 mm (reticule 0,1 mm)	○	○	OBB-A2410	110,-
	HWF 10x / Ø 22 mm	○○	○○	OBB-A2409	70,-
Infinity Plan achromatic objectives (for long working distance)	4x / 0,13	○	○	OBB-A2413	100,-
	10x / 0,25	●	●	OBB-A2414	160,-
	20x / 0,40	●	●	OBB-A2415	225,-
	40x / 0,60	●	●	OBB-A2416	325,-
	60x / 0,70	○	○	OBB-A2417	425,-
Binocular tube	• 45° inclined • Interpupillary distance: 52 – 75 mm • With diopter adjustment (one-sided)	●	●	OBB-A2501	270,-
	• 45° inclined • Interpupillary distance: 48 – 75 mm • With diopter adjustment (one-sided)	○	○	OBB-A2502	305,-
Nosepiece	Quintuple	●	●		
Mechanical stage	• Stage size: WxD 350x208 mm • Travel: 50x50 mm • Coaxial coarse and fine focusing knobs		●		
	Drop specimen holder (Ø 118)		●	OBB-A2520	100,-
Fixed stage	• Stage size: WxD 240x260 mm • Travel: 135x85 mm	●			
	Drop specimen holder (Ø 118)	●		OBB-A2520	100,-
	Specimen holder for 54 mm culture dish	●		OBB-A2522	75,-
	Specimen holder for 96-hole microtitre plate	○		OBB-A2521	100,-
	Specimen holder for 60 mm culture dish	○		OBB-A2560	75,-
	Specimen holder for 65 mm culture dish	○		OBB-A2561	75,-
	Specimen holder for 30 mm culture dish	○		OBB-A2562	75,-
Condenser	Abbe N.A. 0,3 (aperture diaphragm) LWD 72 mm	●	●		
Illumination	6V / 30W Halogen spare bulb (transmitting)	●	●	OBB-A2440	55,-
Phase contrast unit	Phase contrast slide	●	●	OBB-A2432	105,-
	Infinity plan achromatic PH-objective 10x	○	○	OBB-A2418	190,-
	Infinity plan achromatic PH-objective 20x	●	●	OBB-A2419	260,-
	Infinity plan achromatic PH-objective 40x	○	○	OBB-A2420	360,-
	Centering telescope	●	●	OBB-A2506	95,-
C-Mount	0,5x	●	●	OBB-A2531	85,-
	0,25x	○	○	OBB-A2532	115,-
Filter	Filter holder	●	●	OBB-A1357	55,-
	Blue (Ø 34 mm)	●	●	OBB-A2434	35,-
	Green (Ø 34 mm)	●	●	OBB-A2435	35,-
	Yellow (Ø 34 mm)	●	●	OBB-A2436	35,-

● = Standard configuration

○ = Option

3 Polarizing microscopes





λ Slip and quartz wedge

EDUCATIONAL LINE POL

The robust polarising model for your training establishment or workshops

Features

- The KERN OPE-1 is a very easy to use, robust and stable polarisation microscope.
- It is suitable for all common routine applications in training establishments or workshops and produces impressive images.
- This microscope is equipped with a reticule wide field eyepiece, non-stress achromatic objectives, a Bertrand lens and an Abbe condenser as standard.
- A nosepiece for up to 4 objectives and a stage rotatable through 360° are provided as standard.
- The following optional accessories are available: A quartz wedge, additional eyepiece, objectives and a mechanical stage unit.
- One of the central features of this variable and simultaneously robust series of microscopes is the stable and precisely adjustable mechanism. This is underlined by the functional and ergonomic design.

Technical data

- Eyepieces: WF 10x18 mm
- Objectives: Non-stress 4x / 10x / 40x
- Overall dimensions
WxDxH 242x170x379,3 mm
- Net weight approx. 6,5 kg

Please find detailed information in the following charts.

STANDARD



Model	Standard configuration			Price excl. of VAT ex works €
	Optical system	Tube	Illumination	
KERN OPE 118	Achromatic	Monocular	6V / 20W Halogen (transmitting)	940,-

Polarising microscope KERN OPE-1

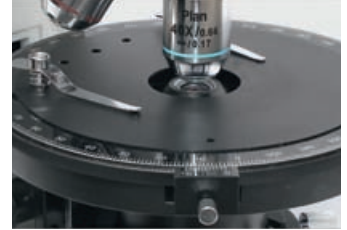
Model outfit		Model KERN	Order number	Price excl. of VAT ex works €
		OPE 118		
Eyepieces	WF 10x / Ø 18 mm (reticule 0,1mm) (non-adjustable)	●	OBB-A1349	80,-
	WF 16x / Ø 13 mm	○	OBB-A1354	55,-
Non-stress achromatic objectives	4x / 0,10	●	OBB-A1280	65,-
	10x / 0,25	●	OBB-A1278	75,-
	40x / 0,66 (spring)	●	OBB-A1281	80,-
	20x / 0,40	○	OBB-A1279	95,-
	60x / 0,80 (spring)	○	OBB-A1282	100,-
Monocular tube	30° inclined, 360° rotatable	●	OBB-A1227	105,-
Nosepiece	Quadplex	●		
Analyser unit	0 – 90°, can be moved out of the optical path for single polarising observe	●	OBB-A1118	160,-
Bertrand lens	Can be moved out of the optical path	●	OBB-A1120	220,-
$\lambda + \frac{1}{4} \lambda$ Slip	λ Slip and $\frac{1}{4} \lambda$ Slip (combination)	●	OBB-A1316	135,-
Quartz wedge	I – IV class	○	OBB-A1320	235,-
Revolving round stage	360° rotatable, division 1°, Vernier division 6', lockable	●		
Polarising attached mechanical stage	Polarising attached mechanical stage	○	OBB-A1337	260,-
Condenser	Abbe N.A. 1,25 (aperture diaphragm)	●	OBB-A1101	85,-
Polarising unit	Can be moved out of the optical path	●	OBB-A1285	170,-
Filter	Blue	●	OBB-A1173	45,-
Illumination	6V / 20W Halogen spare bulb (transmitting)	●	OBB-A1370	30,-

● = Standard configuration

○ = Option



Bertrand lens, λ Slip, 360° rotatable analyser (detachable)



Centrabale and rotatable polarisation stage



Swing-out condenser

PROFESSIONAL LINE POL

The polarising model for the flexible and professional user

Features

- The KERN OPM-1, OPN-1 and OPO-1 microscope series are polarisation microscopes for professional applications.
- They are available with two illumination systems: Standard halogen illumination (50 W) and premium illumination (100 W).
- They are both suitable for all common routine applications and produce impressive images.
- A transmitted light model (OPM), an reflecting light model (OPN) and a combination model (OPO) are available.
- A nosepiece with objective centring option for up to 5 objectives and a precise stage, rotatable through 360° and lockable, are provided as standard.

- These microscopes are equipped with wide field eyepieces with large field of view, non-stress, infinity corrected, plan achromatic objectives, λ slips, a Bertrand lens and a quartz wedge as standard, plus numerous additional valuable features, depending on model.
- The following optional accessories are available: A mechanical stage unit, a special polarisation microscope head, LWD objectives for a large working distance, diverse filters and more.
- One of the central features of this highly variable and simultaneously robust series of microscopes is the stable and precisely adjustable mechanism. This is underlined by the functional and ergonomic design.

Technical data

- OPM 181**
- Overall dimensions WxDxH 306x200x445 mm
 - Net weight approx. 10 kg
- OPN 182 / OPN 184**
- Overall dimensions WxDxH 306x200x497,5 mm
 - Net weight approx. 13 kg
- OPO 183 / OPO 185**
- Overall dimensions WxDxH 306x200x497,5 mm
 - Net weight approx. 12 kg

Please find detailed information in the following charts.

STANDARD



OPTION



Model	Standard configuration			Price excl. of VAT ex works €
	Optical system	Tube	Illumination	
KERN OPM 181	Infinity	Binocular	6V / 20W Halogen (transmitting)	3660,-
OPN 182	Infinity	Binocular	12V / 50W Halogen (reflecting)	3650,-
OPO 183	Infinity	Binocular	12V / 50W Halogen (reflecting) + 6V / 20W (transmitting)	5150,-
OPN 184	Infinity	Binocular	12V / 100W Halogen (reflecting)	3880,-
OPO 185	Infinity	Binocular	12V / 100W Halogen (reflecting) + 6V / 20W (transmitting)	5350,-

Polarizing microscopes KERN OPM-1 · OPN-1 · OPO-1

Model outfit		Model KERN	Order number	Price excl. of VAT ex works €
		OPM 181		
Eyepieces	WF10 / Ø 20 mm	●	OBB-A1351	95,-
	WF 10x / Ø 20 mm (reticule 0,1 mm) (adjustable)	●	OBB-A1352	150,-
Non-stress Infinity plan objectives	4x / 0,10	●	OBB-A1294	110,-
	10x / 0,25	●	OBB-A1289	200,-
	20x / 0,40 (spring)	●	OBB-A1290	265,-
	40x / 0,65 (spring)	●	OBB-A1292	315,-
	60x / 0,80 (spring)	○	OBB-A1296	375,-
Binocular tube	<ul style="list-style-type: none"> • Siedentopf, 30° inclined, 360° rotatable • Interpupillary distance: 50 – 75 mm • With diopter adjustment (one-sided) 	●	OBB-A1125	260,-
Trinocular tube	<ul style="list-style-type: none"> • Siedentopf, 30° inclined, 360° rotatable • Interpupillary distance: 50 – 75 mm • Light distribution: 100:0 • With diopter adjustment (one-sided) 	○	OBB-A1344	420,-
Professional dedicated polarising binocular head	To keep the reticular cross in the right-hand eyepiece in the same position, independent of the adjustment of the tube.	○	OBB-A1209	415,-
Professional dedicated polarising trinocular head		○	OBB-A1210	550,-
Nosepiece	Quintuple	●		
Analyser unit with scale	360° rotatable, lockable	●		
Bertrand lens	Built-in, center-adjustable	●	OBB-A1121	300,-
$\lambda + \frac{1}{4} \lambda$ Slip	λ Slip and $\frac{1}{4} \lambda$ Slip (combination)	●	OBB-A1316	135,-
Quartz wedge	I – IV Class	●	OBB-A1321	235,-
Revolving round stage	360° rotatable, center-adjustable, division 1°, Vernier division 6'	●		
Polarising attached mechanical stage	Polarising attached mechanical stage	○	OBB-A1337	260,-
Swing-out condenser	N.A. 0,9 / 0,13 swing-out achromatic condenser (aperture diaphragm)	●	OBB-A1107	135,-
Polarising unit with scale	360° rotatable, lockable	●		
Koehler illumination	6V / 20W Halogen spare bulb (transmitting)	●	OBB-A1370	30,-
Filter	Blue	●	OBB-A1172	30,-
	Amber	○	OBB-A1165	30,-
	Green	○	OBB-A1189	30,-
	Neutral	○	OBB-A1198	30,-
C-Mount	1x	○	OBB-A1140	105,-
	0,57x (focus adjustable)	○	OBB-A1136	160,-

● = Standard configuration

○ = Option

Polarizing microscopes KERN OPM-1 · OPN-1 · OPO-1

Model outfit		Model KERN				Order number	Price excl. of VAT ex works €
		OPN 182	OPO 183	OPN 184	OPO 185		
Eyepieces	WF 10x / 18 mm	●	●	●	●	OBB-A1347	55,-
	WF 10x / 18 mm (reticule 0,1 mm) (adjustable)	●	●	●	●	OBB-A1350	100,-
Non-stress Infinity Plan objectives	4x / 0,10	●	●	●	●	OBB-A1294	110,-
	10x / 0,25	●	●	●	●	OBB-A1289	200,-
	20x / 0,40 (spring)	●	●	●	●	OBB-A1290	265,-
	40x / 0,65 (spring)		●		●	OBB-A1292	315,-
	40x / 0,65 (spring) (no cover glass)	●	○	●	○	OBB-A1288	390,-
	60x / 0,80 (spring)	○	●	○	●	OBB-A1296	375,-
Infinity Plan objectives (no cover glass) for LWD	LWD 20x / 0,40 (spring) W.D. 8,35 mm	○	○	○	○	OBB-A1291	345,-
	LWD 40x / 0,65 (spring) W.D. 3,90 mm	○	○	○	○	OBB-A1293	390,-
	LWD 50x / 0,70 (spring) W.D. 1,95 mm	○	○	○	○	OBB-A1295	415,-
	LWD 80x / 0,80 (spring) W.D. 0,85 mm	○	○	○	○	OBB-A1297	510,-
Binocular tube	<ul style="list-style-type: none"> • Siedentopf, 30° inclined, 360° rotatable • Interpupillary distance: 50 – 75 mm • With diopter adjustment (one-sided) 	●	●	●	●	OBB-A1125	260,-
Trinocular tube	<ul style="list-style-type: none"> • Siedentopf, 30° inclined, 360° rotatable • Interpupillary distance: 50 – 75mm • Light distribution: 100:0 • With diopter adjustment (one-sided) 	○	○	○	○	OBB-A1344	420,-
Professional dedicated polarising binocular head	To keep the reticular cross in the right-hand eyepiece in the same position, independent of the adjustment of the tube.	○	○	○	○	OBB-A1209	415,-
Professional dedicated polarising trinocular head		○	○	○	○	OBB-A1210	550,-
Nosepiece	Quintuple	●	●	●	●		
Analyser unit with scale	360° rotatable, lockable	●	●	●	●		
Bertrand lens	Built-in, center-adjustable	●	●	●	●	OBB-A1121	300,-
$\lambda + \frac{1}{4} \lambda$ Slip	λ Slip und $\frac{1}{4} \lambda$ Slip (combination)	●	●	●	●	OBB-A1316	135,-
Quartz wedge	I – IV class	●	●	●	●	OBB-A1321	235,-
Revolving round stage	360° rotatable, center-adjustable, division 1°, Vernier division 6'	●	●	●	●		
Polarising attached mechanical stage	Polarising attached mechanical stage	○	○	○	○	OBB-A1337	260,-
Swing-out condenser	N.A. 0,9 / 0,13 swing-out achromatic condenser (aperture diaphragm)		●		●	OBB-A1107	135,-
Polarising unit with scale	360° rotatable, lockable		●		●		
Koehler illumination	6V / 20W Halogen spare bulb (transmitting)		●		●	OBB-A1370	30,-
Filter	Blue	●	●	●	●	OBB-A1172	30,-
	Amber	○	○	○	○	OBB-A1165	30,-
	Green	○	○	○	○	OBB-A1189	30,-
	Neutral	○	○	○	○	OBB-A1198	30,-
Reflecting polarising unit replacement bulb	12V / 50W Halogen	●	●	○	○	OBB-A1207	35,-
	12V / 100W Halogen	○	○	●	●	OBB-A1377	35,-
C-Mount	1x	○	○	○	○	OBB-A1140	105,-
	0,57x (focus adjustable)	○	○	○	○	OBB-A1136	160,-

● = Standard configuration

○ = Option

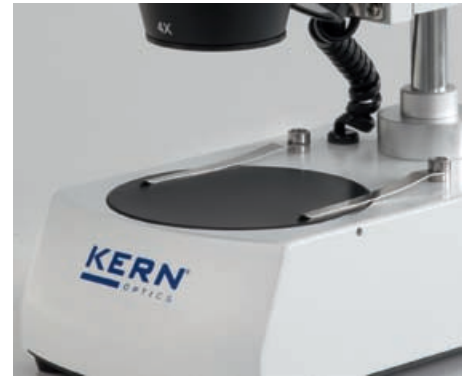
4 Stereomicroscopes

Stereo, Stereo Zoom, Coaxial and Gem microscopes





With white stage plate



With black stage plate

4

EDUCATIONAL LINE

The small robust model for school, training establishment or workshops

Features

- The KERN OSE-4 is a very robust, stable and easy to use stereo microscope.
- This model is optimally suited to schools, workshops and training establishments.
- It displays extremely good optical characteristics for its class, allowing clear images over its broad field of view.
- The model-dependent LED illumination reliably ensures good illumination at all times.
- The multitude of objective combinations and eyepieces are all you can wish for.
- The eyepieces are fixed in the tube to protect them against loss or damage.
- One of the central features of this variable and simultaneously robust series of microscopes is the stable and precisely adjustable mechanism. This is underlined by the functional and ergonomic design.

Technical data

- Optical system: Greenough
- Tube: 45° inclined
- Interpupillary distance: 55 – 75 mm
- Diopter adjustment (one-sided)
- Packing dimensions WxDxH 295x162x345 mm

OSE 410 / OSE 411

- Net weight approx. 1,75 kg

OSE 413 / OSE 414 / OSE 416 / OSE 417

- Net weight approx. 2,25 kg

Please find detailed information in the following charts.

STANDARD



Model	Standard configuration						Price excl. of VAT ex works €
	Tube	Eyepiece	Field of view mm	Objective	Stand	Illumination	
KERN							
OSE 410	Binocular	WF 10x Ø 20 mm	Ø 20	1x / 3x	Pillar style	-	215,-
OSE 411	Binocular	WF 10x Ø 20 mm	Ø 20	2x / 4x	Pillar style	-	215,-
OSE 413	Binocular	WF 10x Ø 20 mm	Ø 20	1x / 3x	Pillar style	0,21W LED (incident)	245,-
OSE 414	Binocular	WF 10x Ø 20 mm	Ø 20	2x / 4x	Pillar style	0,21W LED (incident)	245,-
OSE 416	Binocular	WF 10x Ø 20 mm	Ø 20	1x / 3x	Pillar style	0,21W LED (incident); 0,21W LED (transmitting)	260,-
OSE 417	Binocular	WF 10x Ø 20 mm	Ø 20	2x / 4x	Pillar style	0,21W LED (incident); 0,21W LED (transmitting)	260,-

Stereomicroscope KERN OSE-4

Eyepiece	Specifications – Objectives				
	Magnification	1x	2x	3x	4x
WF 5x	Total magnification	5x	10x	15x	20x
	Field of view mm	Ø 20	Ø 10	Ø 6,7	Ø 5
WF 10x	Total magnification	10x	20x	30x	40x
	Field of view mm	Ø 20	Ø 10	Ø 6,7	Ø 5
WF 15x	Total magnification	15x	30x	45x	60x
	Field of view mm	Ø 15	Ø 7,5	Ø 5	Ø 3,7
WF 20x	Total magnification	20x	40x	60x	80x
	Field of view mm	Ø 10	Ø 6,5	Ø 4,3	Ø 3,2
Working distance		57 mm	57 mm	57 mm	57 mm

Model outfit		Model KERN						Order number	Price excl. of VAT ex works €
		OSE 410	OSE 411	OSE 413	OSE 414	OSE 416	OSE 417		
Eyepieces	WF 5x / Ø 16,2 mm	○	○	○	○	○	○	OZB-A4101	50,-
	WF 10x / Ø 20 mm	●	●	●	●	●	●	OZB-A4102	45,-
	WF 15x / Ø 15 mm	○	○	○	○	○	○	OZB-A4103	45,-
	WF 20x / Ø 10 mm	○	○	○	○	○	○	OZB-A4104	50,-
Stands	Pillar style, without illumination	●	●						
	Pillar style, with 0,21W LED illumination (incident)			●	●				
	Pillar style, with 0,21W LED illumination (transmission + incident)					●	●		
Stage plate	Black-white / Ø 59,5 mm	●	●	●	●			OZB-A4816	30,-
	Frosted glass / Ø 95 mm					●	●	OZB-A4805	30,-
	Black-white / Ø 95 mm					●	●	OZB-A4806	30,-
External illumination	Please find the information about external illumination units in the catalogue from page 68 and on our website www.kern-sohn.com								

● = Standard configuration

○ = Option



EDUCATIONAL LINE

The small robust model for school, training establishment or workshops

Features

- The KERN OSF-4 are very robust, stable and easy to use stereo microscopes.
- Their mechanical stands makes them particularly stable.
- Models OSF 434 and OSF 435 are provided with 3 objectives each and an additional fine focussing knob for precise focussing.
- In addition to its very good optical properties, its large working surface offers the best possible ease of use in this class.
- This model is optimally suited to schools, workshops and training establishments.
- The model-dependent LED incident and transmitted illumination unit reliably ensures good illumination at all times.
- The multitude of objective combinations and eyepieces are all you can wish for.
- The eyepieces are fixed in the tube to protect them against loss or damage.
- One of the central features of this variable and simultaneously robust series of microscopes is the stable and precisely adjustable mechanism. This is underlined by the functional and ergonomic design.

Technical data

- Optical system: Greenough
- Tube: 45° inclined
- Interpupillary distance: 55 – 75 mm
- Diopter adjustment (one-sided)
- Packing dimensions WxDxH 290x210x380 mm
- Net weight approx. 3 kg

Please find detailed information in the following charts.

STANDARD



Model	Standard configuration						Price excl. of VAT ex works €
	Tube	Eyepiece	Field of view mm	Objective	Stand	Illumination	
KERN OSF 430	Binocular	WF 10x Ø 20 mm	Ø 20	1x / 3x	Arm curved	1W LED (incident); 0,21W LED (transmitting)	335,-
OSF 431	Binocular	WF 10x Ø 20 mm	Ø 20	2x / 4x	Arm curved	1W LED (incident); 0,21W LED (transmitting)	335,-
OSF 434	Binocular	WF 10x Ø 20 mm	Ø 20	1x / 2x / 3x	Arm curved	1W LED (incident); 0,21W LED (transmitting)	365,-
OSF 435	Binocular	WF 10x Ø 20 mm	Ø 20	1x / 2x / 4x	Arm curved	1W LED (incident); 0,21W LED (transmitting)	365,-

Stereomicroscope KERN OSF-4

Eyepiece	Specifications – Objectives				
	Magnification	1x	2x	3x	4x
WF 5x	Total magnification	5x	10x	15x	20x
	Field of view mm	Ø 20	Ø 10	Ø 6,7	Ø 5
WF 10x	Total magnification	10x	20x	30x	40x
	Field of view mm	Ø 20	Ø 10	Ø 6,7	Ø 5
WF 15x	Total magnification	15x	30x	45x	60x
	Field of view mm	Ø 15	Ø 7,5	Ø 5	Ø 3,7
WF 20x	Total magnification	20x	40x	60x	80x
	Field of view mm	Ø 10	Ø 6,5	Ø 4,3	Ø 3,2
Working distance		100 mm	100 mm	100 mm	100 mm

Model outfit		Model KERN				Order number	Price excl. of VAT ex works €
		OSF 430	OSF 431	OSF 434	OSF 435		
Eyepieces	WF 5x / Ø 16,2 mm	○○	○○	○○	○○	OZB-A4101	50,-
	WF 10x / Ø 20 mm	●●	●●	●●	●●	OZB-A4102	45,-
	WF 15x / Ø 15 mm	○○	○○	○○	○○	OZB-A4103	45,-
	WF 20x / Ø 10 mm	○○	○○	○○	○○	OZB-A4104	50,-
Stands	Arm curved, with LED illumination (0,21W transmitting + 1W incident)	●	●				
	Arm curved, incl. fine adjustment, with LED illumination (0,21W transmitting + 1W incident)			●	●		
Stage plate	Frosted glass / Ø 74,5 mm	●	●	●	●	OZB-A4813	30,-
	Black-white / Ø 74,5 mm	●	●	●	●	OZB-A4814	30,-
External illumination	Please find the information about external illumination units in the catalogue from page 68 and on our website www.kern-sohn.com						

● = Standard configuration

○ = Option

Stereomicroscope KERN OSF-4G



Stage plate black



Stage plate white

EDUCATIONAL LINE

The robust and practical model for school, training establishment, workshops and laboratory

Features

- The KERN OSF 4G is a very practical and easy to use stereo microscope.
- This microscope can be safely and easily moved around thanks to its built-in handle.
- Its mechanical stand makes it particularly stable.
- In addition to the very good optical properties, its ergonomically designed working surface offers the best possible ease of use in this class.
- This model is optimally suited to schools, workshops and training establishments.
- A strong LED incident and transmitted illumination unit reliably delivers the necessary light.
- The multitude of objective combinations and eyepieces are all you can wish for.
- The eyepieces are fixed in the tube to protect them against loss or damage.

Technical data

- Optical system: Greenough
- Brightness adjustable (separate)
- Tube: 45° inclined
- Interpupillary distance: 55 – 75 mm
- Diopter adjustment (one-sided)
- Packing dimensions WxDxH 290x225x340 mm
- Net weight approx. 2,5 kg

Please find detailed information in the following charts.

STANDARD



Model	Standard configuration						Price excl. of VAT ex works €
	Tube	Eyepiece	Field of view mm	Objective	Stand	Illumination	
KERN OSF 438	Binocular	WF 10x Ø 20 mm	Ø 20	1x / 2x / 3x	Arm curved	1W LED (incident); 0,35W LED (transmitting)	325,-
OSF 439	Binocular	WF 10x Ø 20 mm	Ø 20	1x / 2x / 4x	Arm curved	1W LED (incident); 0,35W LED (transmitting)	325,-

Stereomicroscope KERN OSF-4G

Eyepiece	Specifications – Objectives				
	Magnification	1x	2x	3x	4x
WF 5x	Total magnification	5x	10x	15x	20x
	Field of view mm	Ø 20	Ø 10	Ø 6,7	Ø 5
WF 10x	Total magnification	10x	20x	30x	40x
	Field of view mm	Ø 20	Ø 10	Ø 6,7	Ø 5
WF 15x	Total magnification	15x	30x	45x	60x
	Field of view mm	Ø 15	Ø 7,5	Ø 5	Ø 3,7
WF 20x	Total magnification	20x	40x	60x	80x
	Field of view mm	Ø 10	Ø 6,5	Ø 4,3	Ø 3,2
Working distance		57 mm	57 mm	57 mm	57 mm

Model outfit		Model KERN		Order number	Price excl. of VAT ex works €
		OSF 438	OSF 439		
Eyepieces	WF 5x / Ø 16,2 mm	○○	○○	OZB-A4101	50,-
	WF 10x / Ø 20 mm	●●	●●	OZB-A4102	45,-
	WF 15x / Ø 15 mm	○○	○○	OZB-A4103	45,-
	WF 20x / Ø 10 mm	○○	○○	OZB-A4104	50,-
Stands	Arm curved, incl. handle, with LED illumination (0,35W transmitting + 1W incident)	●	●		
Stage plate	Frosted glass / Ø 59,5 mm	●	●	OZB-A4815	30,-
	Black-white / Ø 59,5 mm	●	●	OZB-A4816	30,-
External illumination	Please find the information about external illumination units in the catalogue from page 68 and on our website www.kern-sohn.com				

● = Standard configuration

○ = Option



OSF 527



OSF 526

EDUCATIONAL LINE

The robust model for school, training establishment, workshops or laboratory

Features

- The KERN OSF-5 is a very robust, stable and easy to use stereo microscope.
- Thanks to its qualities and the flexible pillar stand, it is optimally suited to rough working environments, workshops, schools and training establishments.
- In addition to its very good optical properties, its large working surface offers the best possible ease of use in this class.
- The model-dependent, powerful and separately dimmable incident and transmitted LED illumination unit reliably ensures good illumination at all times.
- The multitude of objective combinations, the extra large working distance and the depth of view are all you can wish for.
- The large selection of additional eyepieces, including for wearers of glasses, and further accessories, round the package off.
- One of the central features of this variable and simultaneously robust series of microscopes is the stable and precisely adjustable mechanism. This is underlined by the functional and ergonomic design.

Technical data

- Optical system: Greenough
- Brightness adjustable (separate)
- Tube: 45° inclined
- Interpupillary distance: 52 – 76 mm
- Diopter adjustment (one-sided)
- Packing dimensions WxDxH 370x330x385 mm

OSF 522 / OSF 524 / OSF 526

- Net weight approx. 2,8 kg

OSF 523 / OSF 525 / OSF 527

- Net weight approx. 3,8 kg

Please find detailed information in the following charts.

STANDARD



OPTION



Model	Standard configuration						Price excl. of VAT ex works €
	Tube	Eyepiece	Field of view mm	Objective	Stand	Illumination	
KERN							
OSF 522	Binocular	HSWF 10x Ø 23 mm	Ø 23	1x / 2x	Pillar style	-	530,-
OSF 523	Binocular	HSWF 10x Ø 23 mm	Ø 23	1x / 2x	Pillar style	3W LED (incident); 3W LED (transmitting)	750,-
OSF 524	Binocular	HSWF 10x Ø 23 mm	Ø 23	1x / 3x	Pillar style	-	530,-
OSF 525	Binocular	HSWF 10x Ø 23 mm	Ø 23	1x / 3x	Pillar style	3W LED (incident); 3W LED (transmitting)	750,-
OSF 526	Binocular	HSWF 10x Ø 23 mm	Ø 23	2x / 4x	Pillar style	-	530,-
OSF 527	Binocular	HSWF 10x Ø 23 mm	Ø 23	2x / 4x	Pillar style	3W LED (incident); 3W LED (transmitting)	750,-

Stereomicroscope KERN OSF-5

Eyepiece	Specifications – Objectives				
	Magnification	1x	2x	3x	4x
HSWF 10x	Total magnification	10x	20x	30x	40x
	Field of view mm	Ø 23	Ø 11,5	Ø 7,67	Ø 5,75
SWF 15x	Total magnification	15x	30x	45x	60x
	Field of view mm	Ø 17	Ø 8,5	Ø 5,67	Ø 4,25
SWF 20x	Total magnification	20x	40x	60x	80x
	Field of view mm	Ø 14	Ø 7	Ø 4,67	Ø 3,5
SWF 30x	Total magnification	30x	60x	90x	120x
	Field of view mm	Ø 9	Ø 4,5	Ø 3	Ø 2,25
Working distance		105 mm	105 mm	105 mm	105 mm

Model outfit		Model KERN						Order number	Price excl. of VAT ex works €
		OSF 522	OSF 523	OSF 524	OSF 525	OSF 526	OSF 527		
Eyepieces	HSWF 10x / Ø 23 mm	●●	●●	●●	●●	●●	●●	OZB-A5503	60,-
	SWF 15x / Ø 17 mm	○○	○○	○○	○○	○○	○○	OZB-A5504	60,-
	SWF 20x / Ø 14 mm	○○	○○	○○	○○	○○	○○	OZB-A5505	70,-
	SWF 30x / Ø 9 mm	○○	○○	○○	○○	○○	○○	OZB-A5506	85,-
	HSWF 10x / Ø 23 mm (reticule 0,1 mm)	○	○	○	○	○	○	OZB-A5512	95,-
	SWF 15x / Ø 17 mm (reticule 0,05 mm)	○	○	○	○	○	○	OZB-A5513	110,-
	SWF 20x / Ø 14 mm (reticule 0,05 mm)	○	○	○	○	○	○	OZB-A5514	110,-
Darkfield attachment	Darkfield attachment	○	○	○	○	○	○	OBB-A4601	85,-
Object clamp	Object clamp	○	○	○	○	○	○	OBB-A6205	45,-
Stands	Pillar style, without illumination	●		●		●			
	Pillar style, with 3W LED illumination (transmitting + incident)		●		●		●		
	Please find more stands in the catalogue on page 64 and on our website www.kern-sohn.com								
Stage plate	Frosted glass / Ø 94,5 mm		●		●		●	OZB-A5192	30,-
	Black-white / Ø 94,5 mm	●	●	●	●	●	●	OZB-A5191	30,-
	Glass / Ø 94,5 mm		○		○		○	OZB-A5190	30,-
Mechanical stage	Stage size: WxD 188x160 mm, Travel: 76x65 mm, for transmitting and incident illumination	○	○	○	○	○	○	OZB-A5781	165,-
	Stage size: WxD 180x175 mm; Travel: 100x86 mm, for incident illumination only	○	○	○	○	○	○	OZB-A5782	240,-
External illumination	Please find the information about external illumination units in the catalogue from page 68 and on our website www.kern-sohn.com								

● = Standard configuration

○ = Option



OZL 445

LAB LINE

The flexible model for laboratory and quality control

Features

- The KERN OZL-44 models are flexible, robust and easy to use stereo microscopes with zoom function.
- Their qualities, the flexible pillar stand and the integral, dimmable LED incident and transmitted illumination make these models especially flexible.
- These models are optimally suited to schools, training establishments, workshops, and assembly and repair workstations in the electronics industry.
- These models are also ideal for use in both production and quality control.
- In addition to their very good optical properties, these models offer the best possible ease of use in this class thanks to their large working surface.
- The multitude of auxiliary objectives, eyepieces and additional accessory parts are all you can wish for.
- The eyepieces are fixed in the tube to protect them against loss or damage.
- One of the central features of this variable and simultaneously robust series of microscopes is the stable and precisely adjustable mechanism. This is underlined by the functional and ergonomic design.

Technical data

- Optical system: Greenough
- Brightness adjustable (separate)
- Tube: 45° inclined
- Interpupillary distance: 55 – 75 mm
- Diopter adjustment (both-sided)

OZL 441

- Magnification ratio: 4:1
- Packing dimensions WxDxH 370x392x470 mm
- Net weight approx. 5 kg

OZL 445

- Magnification ratio: 4,8:1
- Packing dimensions WxDxH 365x392x470 mm
- Net weight approx. 4,5 kg

Please find detailed information in the following charts.

STANDARD



Model	Standard configuration						Price excl. of VAT ex works €
	Tube	Eyepiece	Field of view mm	Objective Zoom	Stand	Illumination	
OZL 441	Trinocular	WF 10x Ø 22 mm	Ø 23 – 5,5	1x – 4x	Pillar style	1W LED (incident); 0,35W LED (transmitting)	600,-
OZL 445	Binocular	HWF 10x Ø 21,5 mm	Ø 28 – 6	0,75x – 3,6x	Pillar style	1W LED (incident); 0,35W LED (transmitting)	415,-

Stereo zoom microscope KERN OZL-44

OZL 44 1	Specifications - Objectives					
Eyepiece	Magnification	Standard 1,0x	Auxiliary objectives			
			0,5x	0,75x	1,5x	2,0x
WF 5x	Total magnification	5x - 20x	2,5x - 10x	3,75x - 15x	7,5x - 30x	10x - 40x
	Field of view mm	Ø 20 - 5	Ø 40 - 11	Ø 25 - 6,5	Ø 13 - 3,5	Ø 10 - 2,5
WF 10x	Total magnification	10x - 40x	5x - 20x	7,5x - 30x	15x - 60x	20x - 80x
	Field of view mm	Ø 23 - 5,5	Ø 52 - 12	Ø 30 - 7	Ø 15 - 4,8	Ø 11,5 - 3
WF 15x	Total magnification	15x - 60x	7,5x - 30x	11,25x - 45x	22,5x - 90x	30x - 120x
	Field of view mm	Ø 15,5 - 4	Ø 36 - 8,5	Ø 21 - 5	Ø 10,5 - 2,5	Ø 8 - 2
WF 20x	Total magnification	20x - 80x	10x - 40x	15x - 60x	30x - 120x	40x - 160x
	Field of view mm	Ø 10,5 - 3	Ø 25 - 5,8	Ø 14 - 3,5	Ø 7 - 1,8	Ø 5,5 - 1,5
Working distance		91 mm	170 mm	100 mm	42 mm	28 mm

OZL 44 5	Specifications - Objectives					
Eyepiece	Magnification	Standard 1,0x	Auxiliary objectives			
			0,5x	0,75x	1,5x	2,0x
WF 5x	Total magnification	3,75x - 18x	1,875x - 9x	2,81x - 13,5x	5,625x - 27x	7,5x - 36x
	Field of view mm	Ø 26 - 6	Ø 60 - 13	Ø 32 - 7	Ø 16 - 4	Ø 12,5 - 3
HWF 10x	Total magnification	7,5x - 36x	3,75x - 18x	5,625x - 27x	11,25x - 54x	15x - 72x
	Field of view mm	Ø 28 - 6	Ø 63 - 14	Ø 35 - 8	Ø 18 - 4	Ø 14 - 3
WF 15x	Total magnification	11,25x - 54x	5,625x - 27x	8,44x - 40,5x	16,875x - 81x	22,5x - 108x
	Field of view mm	Ø 19 - 4,5	Ø 43 - 9,5	Ø 24 - 5,5	Ø 12 - 3	Ø 9,5 - 2
WF 20x	Total magnification	15x - 72x	7,5x - 36x	56,25x - 54x	22,5x - 108x	30x - 144x
	Field of view mm	Ø 12,5 - 3	Ø 28 - 6	Ø 16 - 3,5	Ø 8 - 2	Ø 6 - 1,5
Working distance		86 mm	178 mm	96 mm	42,5 mm	25,5 mm

4

Model outfit		Model KERN		Order number	Price excl. of VAT ex works €
		OZL 44 1	OZL 44 5		
Eyepieces	WF 5x / Ø 16,2 mm	○	○	OZB-A4101	50,-
	WF 10x / Ø 22 mm	●		OZB-A4105	50,-
	HWF 10x / Ø 21,5 mm		●	OZB-A4106	50,-
	WF 15x / Ø 15 mm	○	○	OZB-A4103	45,-
	WF 20x / Ø 10 mm	○	○	OZB-A4104	50,-
Auxiliary objectives	0,5x	○	○	OZB-A4201	75,-
	0,75x	○	○	OZB-A4202	75,-
	1,5x	○	○	OZB-A4204	75,-
	2,0x	○	○	OZB-A4205	80,-
C-Mount	1x adjustable focus	○		OZB-A4809	65,-
	0,3x adjustable focus	○		OZB-A4810	85,-
	0,5x adjustable focus	○		OZB-A4811	100,-
Stands	Pillar style, with LED illumination (0,35W transmitting + 1W incident)	●	●		
	Stage plate				
Stage plate	Frosted glass / Ø 95 mm	●	●	OZB-A4805	30,-
	Black-white / Ø 95 mm	●	●	OZB-A4806	30,-
External illumination	Please find the information about external illumination units in the catalogue from page 68 and on our website www.kern-sohn.com				

● = Standard configuration ○ = Option

Stereo zoom microscope KERN OZL-45



OZL 451



OZL 453

LAB LINE

The smart model for laboratory, training establishment, quality control and agriculture

Features

- The KERN OZL-45 models are very robust and easy to use stereo microscopes with a large zoom range.
- Their qualities, the flexible pillar stand and the optional integral, bright halogen incident and transmitted illumination make these models especially flexible.
- These models are optimally suited to workstations in very rough working environments, training establishments, workshops, as well as assembly and repair workstations in the electronics industry.
- These models are also ideal for use in both production and quality control.
- In addition to their very good optical properties, these models offer the best possible ease of use in this class thanks to their large working surface.
- The multitude of auxiliary objectives, eyepieces and additional accessory parts facilitates use in all common stereo microscopy applications.
- One of the central features of this variable and simultaneously robust series of microscopes is the stable and precisely adjustable mechanism. This is underlined by the functional and ergonomic design.

Technical data

- Optical system: Greenough
- Brightness adjustable
- Magnification ratio: 6,7:1
- Tube: 45° inclined
- Interpupillary distance: 55 – 75 mm
- Diopter adjustment (both-sided)
- Packing dimensions
WxDxH 345x320x470 mm

OZL 451

- Net weight approx. 3,5 kg

OZL 453

- Net weight approx. 5 kg

Please find detailed information in the following charts.

STANDARD



Model	Standard configuration						Price excl. of VAT ex works €
	Tube	Eyepiece	Field of view mm	Objective Zoom	Stand	Illumination	
KERN							
OZL 451	Binocular	HSWF 10x Ø 23 mm	Ø 33 – 5	0,75x – 5,0x	Pillar style	12V / 10W Halogen (incident) 12V / 10W Halogen (transmitting)	595,-
OZL 453	Binocular	HSWF 10x Ø 23 mm	Ø 33 – 5	0,75x – 5,0x	Pillar style	-	560,-

Stereo zoom microscope KERN OZL-45

Eyepiece	Specifications - Objectives				
	Magnification	Standard 1,0x	Auxiliary objectives		
			0,5x	1,5x	2,0x
HWF 5x	Total magnification	3,75x - 25x	1,875x - 12,5x	5,625x - 37,5x	7,5x - 50x
	Field of view mm	Ø 31 - 4,6	Ø 61,3 - 9,2	Ø 22 - 3,3	Ø 16 - 2,5
HSWF 10x	Total magnification	7,5x - 50x	3,75x - 25x	11,25x - 75x	15x - 100x
	Field of view mm	Ø 33 - 5	Ø 65 - 10	Ø 22 - 3,3	Ø 16 - 2,5
HWF 15x	Total magnification	11,25x - 75x	5,625x - 37,5x	16,875x - 112,5x	22,5x - 150x
	Field of view mm	Ø 24 - 4,2	Ø 48 - 8,5	Ø 16 - 2,8	Ø 12 - 2
HSWF 20x	Total magnification	15x - 100x	7,5x - 50x	22,5x - 150x	30x - 200x
	Field of view mm	Ø 20 - 3,5	Ø 40 - 7	Ø 13,3 - 2,3	Ø 10 - 1,8
HWF 25x	Total magnification	18,75x - 125x	9,375x - 62,5x	28,125x - 187,5x	37,5x - 255x
	Field of view mm	Ø 15,8 - 2,4	Ø 31,5 - 4,8	Ø 10,5 - 1,6	Ø 7,9 - 1,2
Working distance		113 mm	220 mm	50 mm	35 mm

4

Model outfit		Model KERN		Order number	Price excl. of VAT ex works €
		OZL 451	OZL 453		
Eyepieces	HWF 5x / Ø 23,2 mm	oo	oo	OZB-A4112	55,-
	HSWF 10x / Ø 23 mm	●●	●●	OZB-A4118	55,-
	HWF 15x / Ø 15 mm	oo	oo	OZB-A4119	55,-
	HSWF 20x / Ø 14,5 mm	oo	oo	OZB-A4120	70,-
	HWF 25x / Ø 11,7 mm	oo	oo	OZB-A4121	70,-
Auxiliary objectives	0,5x	o	o	OZB-A4201	75,-
	1,5x	o	o	OZB-A4204	75,-
	2,0x	o	o	OZB-A4205	80,-
Stands	Pillar style, with 12V / 10W Halogen Illumination (transmitting + incident)	●			
	Pillar style, without illumination		●		
Stage plate	Frosted glass / Ø 95 mm	●		OZB-A4805	30,-
	Black-white / Ø 95 mm	●	●	OZB-A4806	30,-
Mechanical stage	Stage size: WxD 180x155 mm, Travel: 75x55 mm, for transmitting and incident illumination	o	o	OZB-A4605	215,-
External illumination	Please find the information about external illumination units in the catalogue from page 68 and on our website www.kern-sohn.com				

● = Standard configuration

o = Option

Stereo zoom microscope KERN OZL-45R



4

LAB LINE

The practical model for your laboratory, training establishment, quality control and agriculture

Features

- The KERN OZL-45R models are very robust and easy to use stereo microscopes with a large zoom range.
- Its mechanical stand makes it particularly stable.
- These models are optimally suited to workstations in very rough working environments, training establishments, workshops, as well as assembly and repair workstations in the electronics industry.
- These models are also ideal for use in both production and quality control.
- In addition to their very good optical properties, these models offer the best possible ease of use in this class thanks to their large working surface.
- The multitude of auxiliary objectives, eyepieces and additional accessory parts facilitates use in all common stereo microscopy applications.
- One of the central features of this variable and simultaneously robust series of microscopes is the stable and precisely adjustable mechanism as well as an integrated, dimmable LED-illumination ring. This is underlined by the functional and ergonomic design.

Technical data

- Optical system: Greenough
- Transmitting illumination dimmable
- LED ring illumination dimmable
- Magnification ratio: 6,7:1
- Tube: 45° inclined
- Interpupillary distance: 55 – 75 mm
- Diopter adjustment (both-sided)
- Packing dimensions WxDxH 345x320x470 mm
- Net weight approx. 5 kg

Please find detailed information in the following charts.

STANDARD



Model	Standard configuration						Price excl. of VAT ex works €
	Tube	Eyepiece	Field of view mm	Objective Zoom	Stand	Illumination	
KERN							
OZL 456	Binocular	HSWF 10x Ø 23 mm	Ø 33 – 5	0,75x – 5,0x	Arm curved	1W LED (incident); 0,21W LED (transmitting)	700,-

Stereo zoom microscope KERN OZL-45R

Eyepiece	Specifications - Objectives				
	Magnification	Standard 1,0x	Auxiliary objectives		
			0,5x	1,5x	2,0x
HWF 5x	Total magnification	3,75x - 25x	1,875x - 12,5x	5,625x - 37,5x	7,5x - 50x
	Field of view mm	Ø 31 - 4,6	Ø 61,3 - 9,2	Ø 22 - 3,3	Ø 16 - 2,5
HSWF 10x	Total magnification	7,5x - 50x	3,75x - 25x	11,25x - 75x	15x - 100x
	Field of view mm	Ø 33 - 5	Ø 65 - 10	Ø 22 - 3,3	Ø 16 - 2,5
HWF 15x	Total magnification	11,25x - 75x	5,625x - 37,5x	16,875x - 112,5x	22,5x - 150x
	Field of view mm	Ø 24 - 4,2	Ø 48 - 8,5	Ø 16 - 2,8	Ø 12 - 2
HSWF 20x	Total magnification	15x - 100x	7,5x - 50x	22,5x - 150x	30x - 200x
	Field of view mm	Ø 20 - 3,5	Ø 40 - 7	Ø 13,3 - 2,3	Ø 10 - 1,8
HWF 25x	Total magnification	18,75x - 125x	9,375x - 62,5x	28,125x - 187,5x	37,5x - 255x
	Field of view mm	Ø 15,8 - 2,4	Ø 31,5 - 4,8	Ø 10,5 - 1,6	Ø 7,9 - 1,2
Working distance		113 mm	220 mm	50 mm	35 mm

4

Model outfit		Model KERN	Order number	Price excl. of VAT ex works €
		OZL 456		
Eyepieces	HWF 5x / Ø 23,2 mm	○○	OZB-A4112	55,-
	HSWF 10x / Ø 23 mm	●●	OZB-A4118	55,-
	HWF 15x / Ø 15 mm	○○	OZB-A4119	55,-
	HSWF 20x / Ø 14,5 mm	○○	OZB-A4120	70,-
	HWF 25x / Ø 11,7 mm	○○	OZB-A4121	70,-
Auxiliary objectives	0,5x	○	OZB-A4201	75,-
	1,5x	○	OZB-A4204	75,-
	2,0x	○	OZB-A4205	80,-
Stands	Arm curved, with LED illumination (0,21W transmitting + 1W incident)	●		
Stage plate	Frosted glass / Ø 95 mm	●	OZB-A4805	30,-
	Black-white / Ø 95 mm	●	OZB-A4806	30,-
Mechanical stage	Stage size: WxD 180x155 mm, Travel: 75x55 mm, for transmitting and incident illumination	○	OZB-A4605	215,-
External illumination	Please find the information about external illumination units in the catalogue from page 68 and on our website www.kern-sohn.com			

● = Standard configuration

○ = Option

Stereo zoom microscope KERN OZM-5



OZM 544



OZM 541

LAB LINE

The high-quality model for experienced users

Features

- The KERN OZM-5 models are very robust and easy to use stereo microscopes with a zoom function operable from both sides.
- Their qualities, the flexible pillar stand and the optional integral, powerful and long-life LED incident and transmitted illumination make these models especially flexible.
- On all models it is possible to adjust the diopter on both tubes.
- A trinocular model version, allowing a camera to be fitted, is also available.
- These models are optimally suited to workstations in very rough working environments, training establishments, workshops, as well as assembly and repair workstations in the electronics and semi-conductor industries.
- These models are also ideal for use in production, in quality control and in biological laboratory and research areas.
- The design of the optical system allows a large depth of field, where only very little refocussing at the zoom enlargement is necessary.
- In addition, it provides precise resolution, an extra large field of view and is absolutely true-to-colour.
- These models offer the best possible ease of use thanks to their extra large working distance providing a large working surface.
- The multitude of auxiliary objectives, eyepieces, universal stands and additional accessory parts facilitates use in all common stereo microscopy applications.
- One of the central features of this variable and simultaneously robust series of microscopes is the stable and precisely adjustable mechanism. This is underlined by the functional and ergonomic design.

Technical data

- Optical system: Greenough
- Brightness adjustable (separate)
- Magnification ratio: 6,4:1
- Tube: 45° inclined
- Interpupillary distance: 52 – 76 mm
- Diopter adjustment (both-sided)
- Packing dimensions
WxDxH 370x330x385 mm

OZM 541 / OZM 543

- Net weight approx. 5,2 kg

OZM 542 / OZM 544

- Net weight approx. 6,2 kg

Please find detailed information in the following charts.

STANDARD



OPTION



Model	Standard configuration						Price excl. of VAT ex works €
	Tube	Eyepiece	Field of view mm	Objective Zoom	Stand	Illumination	
KERN							
OZM 541	Binocular	HSWF 10x Ø 23 mm	Ø 32,8 – 5,1	0,7x – 4,5x	Pillar style	–	895,-
OZM 542	Binocular	HSWF 10x Ø 23 mm	Ø 32,8 – 5,1	0,7x – 4,5x	Pillar style	3W LED (incident); 3W LED (transmitting)	1120,-
OZM 543	Trinocular	HSWF 10x Ø 23 mm	Ø 32,8 – 5,1	0,7x – 4,5x	Pillar style	–	1195,-
OZM 544	Trinocular	HSWF 10x Ø 23 mm	Ø 32,8 – 5,1	0,7x – 4,5x	Pillar style	3W LED (incident); 3W LED (transmitting)	1415,-

Stereo zoom microscope KERN OZM-5

Eyepiece	Specifications - Objectives						
	Magnification	Standard 1,0x	Auxiliary objectives				
			0,37x	0,5x	0,7x	1,5x	2x
HSWF 10x	Total magnification	7x - 45x	2,59x - 16,65x	3,5x - 22,5x	4,9x - 31,5x	10,5x - 67,5x	14x - 90x
	Field of view mm	Ø 32,8 - 5,1	Ø 88,8 - 13,8	Ø 65,7 - 10,2	Ø 46,9 - 7,3	Ø 21,9 - 3,4	Ø 16,4 - 2,6
SWF 15x	Total magnification	10,5x - 67,5x	3,89x - 25x	5,3x - 33,8x	7,4x - 47,2x	15,8x - 101,3x	21x - 135x
	Field of view mm	Ø 24,3 - 3,8	Ø 65,6 - 10,2	Ø 48,6 - 7,6	Ø 34,7 - 5,4	Ø 16,2 - 2,5	Ø 12,1 - 1,9
SWF 20x	Total magnification	14x - 90x	5,18x - 33,3x	7x - 45x	9,8x - 63x	21x - 135x	28x - 180x
	Field of view mm	Ø 20 - 3,1	Ø 54,1 - 8,4	Ø 40 - 6,2	Ø 28,6 - 4,4	Ø 13,3 - 2,1	Ø 10 - 1,6
SWF 30x	Total magnification	21x - 135x	7,77x - 50x	10,5x - 67,5x	14,7x - 94,5x	31,5x - 202,5x	42x - 270x
	Field of view mm	Ø 12,9 - 2	Ø 34,7 - 5,4	Ø 25,7 - 4	Ø 18,4 - 2,9	Ø 8,6 - 1,6	Ø 6,4 - 1
Working distance		110 mm	275 mm	195 mm	145 mm	50 mm	35 mm

Model outfit		Model KERN				Order number	Price excl. of VAT ex works €
		OZM 541	OZM 542	OZM 543	OZM 544		
Eyepieces	HSWF 10x / Ø 23 mm	●●	●●	●●	●●	OZB-A5503	60,-
	SWF 15x / Ø 17 mm	○○	○○	○○	○○	OZB-A5504	60,-
	SWF 20x / Ø 14 mm	○○	○○	○○	○○	OZB-A5505	70,-
	SWF 30x / Ø 9 mm	○○	○○	○○	○○	OZB-A5506	85,-
	HSWF 10x / Ø 23 mm (reticule 0,1 mm)	○	○	○	○	OZB-A5512	95,-
	SWF 15x / Ø 17 mm (reticule 0,05 mm)	○	○	○	○	OZB-A5513	110,-
	SWF 20x / Ø 14 mm (reticule 0,05 mm)	○	○	○	○	OZB-A5514	110,-
Achromatic auxiliary objectives	0,37x only in combination with universal stand	○	○	○	○	OZB-A5611	135,-
	0,5x	○	○	○	○	OZB-A5612	120,-
	0,7x	○	○	○	○	OZB-A5613	120,-
	1,5x	○	○	○	○	OZB-A5615	120,-
	2,0x	○	○	○	○	OZB-A5616	120,-
C-Mount	0,3x			○	○	OZB-A5701	120,-
	0,5x			○	○	OZB-A5702	120,-
	1,0x			○	○	OZB-A5703	95,-
	1,0x (with micrometer) only in combination with OZB-A5703			○	○	OZB-A5704	250,-
	for SLR cameras (Nikon)			○	○	OZB-A5706	250,-
	for SLR cameras (Olympus)			○	○	OZB-A5707	250,-
	for SLR cameras (Canon)			○	○	OZB-A5708	250,-
Darkfield attachment	Darkfield attachment	○	○	○	○	OBB-A4601	85,-
Object clamp	Object clamp	○	○	○	○	OBB-A6205	45,-
Stands	Pillar style, without illumination	●		●			
	Pillar style, with 3W LED illumination (transmitting + incident)		●		●		
	Please find more stands in the catalogue on page 64 and on our website www.kern-sohn.com						
Stage plate	Frosted glass / Ø 94,5 mm		●		●	OZB-A5192	30,-
	Black-white / Ø 94,5 mm	●	●	●	●	OZB-A5191	30,-
	Glass / Ø 94,5 mm		○		○	OZB-A5190	30,-
Mechanical stage	Stage size: WxD 188x160 mm, Travel: 76x65 mm, for transmitting and incident illumination	○	○	○	○	OZB-A5781	165,-
	Stage size: WxD 180x175 mm, Travel: 100x86 mm, for incident illumination only	○	○	○	○	OZB-A5782	240,-
External illumination	Please find the information about external illumination units in the catalogue from page 68 and on our website www.kern-sohn.com						

● = Standard configuration

○ = Option

Stereo zoom microscope KERN OZO-5



OZO 552



OZO 551



Trinocular tube

4

LAB LINE

The high-quality model for flexible and professional users

Features

- The KERN OZO-5 models are very robust and easy to use stereo microscopes with a zoom function operable from both sides for an above-average enlargement range.
- Their qualities, the flexible pillar stand and the optional integral, powerful and long-life LED incident and transmitted illumination make these models especially flexible.
- On all models it is possible to adjust the diopter on both tubes.
- A trinocular model version, allowing a camera to be fitted, is also available.
- These models are optimally suited to quality control, assembly and repair workstations in the electronics and semi-conductor industries as well as in biological laboratories and research establishments.
- These models are also ideal for use at workstations in rough working environments, such as training establishments, workshops and in production.
- The design of these special optical system allows a large depth of field, where only very little refocussing at the zoom enlargement is necessary.
- In addition, thanks to its precise resolution, it provides high-contrast images, an extra large field of view and is absolutely true-to-colour.
- These models offer the best possible ease of use thanks to their extra large working distance providing a large working surface.
- The multitude of auxiliary objectives, eyepieces, universal stands and additional accessory parts facilitates use in all common stereo microscopy applications.
- One of the central features of this variable and simultaneously robust series of microscopes is the stable and precisely adjustable mechanism. This is underlined by the functional and ergonomic design.

Technical data

- Optical system: Greenough
- Brightness adjustable (separate)
- Magnification ratio: 8,8:1
- Tube: 35° inclined
- Interpupillary distance: 52 – 76 mm
- Diopter adjustment (both-sided)
- Packing dimensions WxDxH 370x330x385 mm

OZO 551 / OZM 553

- Net weight approx. 5,1 kg

OZM 552 / OZM 554

- Net weight approx. 6,1 kg

Please find detailed information in the following charts.

STANDARD



OPTION



Model	Standard configuration						Price excl. of VAT ex works €
	Tube	Eyepiece	Field of view mm	Objective Zoom	Stand	Illumination	
KERN							
OZO 551	Binocular	HSWF 10x Ø 23 mm	Ø 28,75 – 3,3	0,8x – 7x	Pillar style	–	1525,-
OZO 552	Binocular	HSWF 10x Ø 23 mm	Ø 28,75 – 3,3	0,8x – 7x	Pillar style	3W LED (incident); 3W LED (transmitting)	1745,-
OZO 553	Trinocular	HSWF 10x Ø 23 mm	Ø 28,75 – 3,3	0,8x – 7x	Pillar style	–	1895,-
OZO 554	Trinocular	HSWF 10x Ø 23 mm	Ø 28,75 – 3,3	0,8x – 7x	Pillar style	3W LED (incident); 3W LED (transmitting)	2115,-

Stereo zoom microscope KERN OZO-5

Eyepiece	Specifications - Objectives						
	Magnification	Standard 1,0x	Auxiliary objectives				
			0,37x	0,5x	0,7x	1,5x	2x
HSWF 10x	Total magnification	8x - 70x	2,96x - 25,9x	4x - 35x	5,6x - 49x	12x - 105x	16x - 140x
	Field of view mm	Ø 28,75 - 3,3	Ø 74,3 - 8,5	Ø 57,5 - 6,6	Ø 41,1 - 4,7	Ø 19,2 - 2,2	Ø 14,4 - 1,6
SWF 15x	Total magnification	12x - 105x	4,44x - 38,9x	6x - 52,5x	8,4x - 73,5x	18x - 157,5x	24x - 210x
	Field of view mm	Ø 21,25 - 2,4	Ø 57,4 - 6,6	Ø 42,5 - 4,9	Ø 30,4 - 3,5	Ø 14,2 - 1,6	Ø 10,6 - 1,2
SWF 20x	Total magnification	16x - 140x	5,92x - 51,8x	8x - 70x	11,2x - 98x	24x - 210x	32x - 280x
	Field of view mm	Ø 17,5 - 2	Ø 47,3 - 5,4	Ø 35 - 4	Ø 25 - 2,9	Ø 11,7 - 1,3	Ø 8,75 - 1
SWF 30x	Total magnification	24x - 210x	8,88x - 77,7x	12x - 105x	16,8x - 147x	36x - 315x	48x - 420x
	Field of view mm	Ø 11,25 - 1,3	Ø 30,4 - 3,5	Ø 22,5 - 2,6	Ø 16,1 - 1,8	Ø 7,5 - 0,9	Ø 5,625 - 0,6
Working distance		108 mm	275 mm	195 mm	145 mm	50 mm	35 mm

Model outfit		Model KERN				Order number	Price excl. of VAT ex works €
		OZO 551	OZO 552	OZO 553	OZO 554		
Eyepieces	HSWF 10x / Ø 23 mm	●●	●●	●●	●●	OZB-A5503	60,-
	SWF 15x / Ø 17 mm	○○	○○	○○	○○	OZB-A5504	60,-
	SWF 20x / Ø 14 mm	○○	○○	○○	○○	OZB-A5505	70,-
	SWF 30x / Ø 9 mm	○○	○○	○○	○○	OZB-A5506	85,-
	HSWF 10x / Ø 23 mm (reticule 0,1 mm)	○	○	○	○	OZB-A5512	95,-
	SWF 15x / Ø 17 mm (reticule 0,05 mm)	○	○	○	○	OZB-A5513	110,-
	SWF 20x / Ø 14 mm (reticule 0,05 mm)	○	○	○	○	OZB-A5514	110,-
Achromatic auxiliary objectives	0,37x only in combination with universal stand	○	○	○	○	OZB-A5611	135,-
	0,5x	○	○	○	○	OZB-A5612	120,-
	0,7x	○	○	○	○	OZB-A5613	120,-
	1,5x	○	○	○	○	OZB-A5615	120,-
	2,0x	○	○	○	○	OZB-A5616	120,-
C-Mount	0,3x			○	○	OZB-A5701	120,-
	0,5x			○	○	OZB-A5702	120,-
	1,0x			○	○	OZB-A5703	95,-
	1,0x (with micrometer) only in combination with OZB-A5703			○	○	OZB-A5704	250,-
	for SLR cameras (Nikon)			○	○	OZB-A5706	250,-
	for SLR cameras (Olympus)			○	○	OZB-A5707	250,-
	for SLR cameras (Canon)			○	○	OZB-A5708	250,-
Darkfield attachment	Darkfield attachment	○	○	○	○	OBB-A4601	85,-
Object clamp	Object clamp	○	○	○	○	OBB-A6205	45,-
Stands	Pillar style, without illumination	●		●			
	Pillar style, with 3W LED illumination (transmitting + incident)		●		●		
	Please find more stands in the catalogue on page 64 and on our website www.kern-sohn.com						
Stage plate	Frosted glass / Ø 94,5 mm		●		●	OZB-A5192	30,-
	Black-white / Ø 94,5 mm	●	●	●	●	OZB-A5191	30,-
	Glass / Ø 94,5 mm		○		○	OZB-A5190	30,-
Mechanical stage	Stage size: WxD 188x160 mm, Travel: 76x65 mm, for transmitting and incident illumination	○	○	○	○	OZB-A5781	165,-
	Stage size: WxD 180x175 mm, Travel: 100x86 mm, for incident illumination only	○	○	○	○	OZB-A5782	240,-
External illumination	Please find the information about external illumination units in the catalogue from page 68 and on our website www.kern-sohn.com						

● = Standard configuration

○ = Option

Stereo zoom microscope KERN OZP-5



OZP 555



OZP 558



Trinocular head

4

LAB LINE

The high-quality model for flexible and professional users

Features

- The KERN OZP-5 models are very robust and easy to use stereo microscopes with a zoom function operable from both sides for an above-average enlargement range.
- Their qualities, the flexible pillar stand and the optional integral, powerful and long-life LED incident and transmitted illumination make these models especially flexible.
- On all models it is possible to adjust the diopter on both tubes.
- A trinocular model version, allowing a camera to be fitted, is also available.
- These models are optimally suited to quality control, assembly and repair workstations in the electronics and semi-conductor industries and in biological laboratories and research establishments.
- These models are also ideal for use at workstations in rough working environments, such as training establishments, workshops and in production.

- The design of these special optical system allows a large depth of field, where only very little refocussing at the zoom enlargement is necessary.
- In addition, thanks to its precise resolution, it provides high-contrast images, an extra large field of view and is absolutely true-to-colour.
- These models offer the best possible ease of use thanks to their extra large working distance providing a large working surface.
- The multitude of auxiliary objectives, eyepieces, universal stands and additional accessory parts facilitates use in all common stereo microscopy applications.
- One of the central features of this variable and simultaneously robust series of microscopes is the stable and precisely adjustable mechanism. This is underlined by the functional and ergonomic design.

Technical data

- Optical system: Greenough
- Brightness adjustable (separate)
- Magnification ratio: 9,2:1
- Tube: 35° inclined
- Interpupillary distance: 52 – 76 mm
- Diopter adjustment (both-sided)
- Packing dimensions WxDxH 370x330x385 mm

OZP 555 / OZP 557

- Net weight approx. 5,1 kg

OZP 556 / OZP 558

- Net weight approx. 6,1 kg

Please find detailed information in the following charts.

STANDARD



OPTION



Model	Standard configuration						Price excl. of VAT ex works €
	Tube	Eyepiece	Field of view mm	Objective Zoom	Stand	Illumination	
KERN							
OZP 555	Binocular	HSWF 10x Ø 23 mm	Ø 38,3 – 4,2	0,6x – 5,5x	Pillar style	–	1070,-
OZP 556	Binocular	HSWF 10x Ø 23 mm	Ø 38,3 – 4,2	0,6x – 5,5x	Pillar style	3W LED (incident); 3W LED (transmitting)	1290,-
OZP 557	Trinocular	HSWF 10x Ø 23 mm	Ø 38,3 – 4,2	0,6x – 5,5x	Pillar style	–	1385,-
OZP 558	Trinocular	HSWF 10x Ø 23 mm	Ø 38,3 – 4,2	0,6x – 5,5x	Pillar style	3W LED (incident); 3W LED (transmitting)	1605,-

Stereo zoom microscope KERN OZP-5

Eyepiece	Specifications - Objectives						
	Magnification	Standard 1,0x	Auxiliary objectives				
			0,37x	0,5x	0,7x	1,5x	2x
HSWF 10x	Total magnification	6x - 55x	2,22x - 20,4x	3x - 27,5x	4,2x - 38,5x	9x - 82,5x	12x - 110x
	Field of view mm	Ø 38,3 - 4,2	Ø 99,1 - 10,8	Ø 76,7 - 8,4	Ø 54,8 - 6	Ø 25,6 - 2,8	Ø 19,2 - 2,1
SWF 15x	Total magnification	9x - 82,5x	3,33x - 30,5x	4,5x - 41,25x	6,3x - 57,75x	13,5x - 123,75x	18x - 165x
	Field of view mm	Ø 28,3 - 3,1	Ø 76,6 - 8,35	Ø 56,7 - 6,2	Ø 40,5 - 4,4	Ø 18,9 - 2,1	Ø 14,2 - 1,5
SWF 20x	Total magnification	12x - 110x	4,44x - 40,7x	6x - 55x	8,4x - 77x	18x - 165x	24x - 220x
	Field of view mm	Ø 23,3 - 2,5	Ø 63,1 - 6,9	Ø 46,7 - 5,1	Ø 33,3 - 3,6	Ø 15,6 - 1,7	Ø 11,7 - 1,3
SWF 30x	Total magnification	18x - 165x	6,66x - 61,1x	9x - 82,5x	12,6x - 115,5x	27x - 247,5x	36x - 330x
	Field of view mm	Ø 15 - 1,6	Ø 40,5 - 4,4	Ø 30 - 3,3	Ø 21,4 - 2,3	Ø 10 - 1,1	Ø 7,5 - 0,8
Working distance		108 mm	275 mm	195 mm	145 mm	50 mm	35 mm

Model outfit		Model KERN				Order number	Price excl. of VAT ex works €
		OZP 555	OZP 556	OZP 557	OZP 558		
Eyepieces	HSWF 10x / Ø 23 mm	●●	●●	●●	●●	OZB-A5503	60,-
	SWF 15x / Ø 17 mm	○○	○○	○○	○○	OZB-A5504	60,-
	SWF 20x / Ø 14 mm	○○	○○	○○	○○	OZB-A5505	70,-
	SWF 30x / Ø 9 mm	○○	○○	○○	○○	OZB-A5506	85,-
	HSWF 10x / Ø 23 mm (reticule 0,1 mm)	○	○	○	○	OZB-A5512	95,-
	SWF 15x / Ø 17 mm (reticule 0,05 mm)	○	○	○	○	OZB-A5513	110,-
	SWF 20x / Ø 14 mm (reticule 0,05 mm)	○	○	○	○	OZB-A5514	110,-
Achromatic auxiliary objectives	0,37x only in combination with universal stand	○	○	○	○	OZB-A5611	135,-
	0,5x	○	○	○	○	OZB-A5612	120,-
	0,7x	○	○	○	○	OZB-A5613	120,-
	1,5x	○	○	○	○	OZB-A5615	120,-
	2,0x	○	○	○	○	OZB-A5616	120,-
C-Mount	0,3x			○	○	OZB-A5701	120,-
	0,5x			○	○	OZB-A5702	120,-
	1,0x			○	○	OZB-A5703	95,-
	1,0x (with micrometer) only in combination with OZB-A5703			○	○	OZB-A5704	250,-
	for SLR cameras (Nikon)			○	○	OZB-A5706	250,-
	for SLR cameras (Olympus)			○	○	OZB-A5707	250,-
	for SLR cameras (Canon)			○	○	OZB-A5708	250,-
Darkfield attachment	Darkfield attachment	○	○	○	○	OBB-A4601	85,-
Object clamp	Object clamp	○	○	○	○	OBB-A6205	45,-
Stands	Pillar style, without illumination	●		●			
	Pillar style, with 3W LED illumination (transmitting + incident)		●		●		
	Please find more stands in the catalogue from page 64 and on our website www.kern-sohn.com						
Stage plate	Frosted glass / Ø 94,5 mm		●		●	OZB-A5192	30,-
	Black-white / Ø 94,5 mm	●	●	●	●	OZB-A5191	30,-
	Glass / Ø 94,5 mm		○		○	OZB-A5190	30,-
Mechanical stage	Stage size: WxD 188x160 mm, Travel: 76x65 mm, for incident and transmitting illumination	○	○	○	○	OZB-A5781	165,-
	Stage size: WxD 180x175 mm, Travel: 100x86 mm, for incident illumination only	○	○	○	○	OZB-A5782	240,-
External illumination	Please find the information about external illumination units in the catalogue from page 68 and on our website www.kern-sohn.com						

● = Standard configuration

○ = Option

Stereo zoom microscope KERN OZR-5



OZR 563



OZR 564

PROFESSIONAL LINE

The high-contrast parallel model for the professional user

Features

- The KERN OZR-5 models are highly professional, very robust but easy to use stereo microscopes with a zoom function operable from both sides.
- Their qualities, the flexible pillar stand and the optional integral, powerful and long-life LED incident and transmitted illumination make these models especially flexible.
- All models have diopter adjustment on both tubes and are supplied with an adapter, allowing a camera to be fitted.
- The parallel optical system allows work without tiring the eyes and offers a large depth of field. In addition, only very minor refocussing at the zoom enlargement is necessary.
- Furthermore, it provides precise resolution, an extra large field of view and is absolutely true-to-colour.
- These models are optimally suited to quality control, assembly and repair workstations

- in the electronics and semi-conductor industries as well as in biological laboratories and research establishments.
- These models are also ideal for use at workstations in rough working environments, such as training establishments, workshops and in production.
- These models offer the best possible ease of use thanks to their extra large working distance providing a large working surface.
- The multitude of auxiliary objectives, eyepieces, universal stands and additional accessory parts facilitates use in all common and professional stereo microscopy applications.
- One of the central features of this variable and simultaneously robust series of microscopes is the stable and precisely adjustable mechanism. This is underlined by the functional and ergonomic design.

Technical data

- Optical system: Parallele
- Brightness adjustable (separate)
- Magnification ratio: 6,25:1
- Tube: 45° inclined
- Interpupillary distance: 52 - 76 mm
- Diopter adjustment (both-sided)
- Packing dimensions
WxDxH 370x330x385 mm

OZR 563

- Net weight approx. 5,9 kg

OZR 564

- Net weight approx. 6,9 kg

Please find detailed information in the following charts.

STANDARD



OPTION

Model	Standard configuration						Price excl. of VAT ex works €
	Tube	Eyepiece	Field of view mm	Objective Zoom	Stand	Illumination	
KERN							
OZR 563	Trinocular	HWF 10x Ø 22 mm	Ø 27,5 - 4,4	0,8x - 5x	Pillar style	-	2030,-
OZR 564	Trinocular	HWF 10x Ø 22 mm	Ø 27,5 - 4,4	0,8x - 5x	Pillar style	3W LED (incident); 3W LED (transmitting)	2250,-

Stereo zoom microscope KERN OZR-5

Eyepiece	Specifications - Objectives				
	Magnification	Standard Plan 1,0x	Achromatic objectives		
			0,5x	0,7x	1,5x (Auxiliary)
HWF 10x	Total magnification	8x - 50x	4x - 25x	5,6x - 35x	12x - 75x
	Field of view mm	Ø 27,5 - 4,4	Ø 55 - 8,8	Ø 39,3 - 6,3	Ø 18,33 - 2,93
SWF 15x	Total magnification	12x - 75x	6x - 37,5x	8,4x - 5,5x	18x - 112,5x
	Field of view mm	Ø 21,25 - 3,4	Ø 42,5 - 6,8	Ø 30,36 - 4,86	Ø 14,17 - 2,27
SWF 20x	Total magnification	16x - 100x	8x - 50x	11,2x - 70x	24x - 150x
	Field of view mm	Ø 17,5 - 2,8	Ø 35 - 5,6	Ø 25 - 4	Ø 11,67 - 1,87
SWF 30x	Total magnification	24x - 150x	12x - 75x	16,8x - 105x	36x - 225x
	Field of view mm	Ø 11,25 - 1,8	Ø 22,5 - 3,6	Ø 16,1 - 2,57	Ø 7,5 - 1,2
Working distance		91 mm	186 mm	135 mm	40 mm

Model outfit		Model KERN		Order number	Price excl. of VAT ex works €
		OZR 563	OZR 564		
Eyepieces	HWF 10x / Ø 22 mm	●●	●●	OZB-A5502	60,-
	SWF 15x / Ø 17 mm	○○	○○	OZB-A5504	60,-
	SWF 20x / Ø 14 mm	○○	○○	OZB-A5505	70,-
	SWF 30x / Ø 9 mm	○○	○○	OZB-A5506	85,-
	HWF 10x / Ø 22 mm (reticule 0,1 mm)	○	○	OZB-A5511	95,-
	SWF 15x / Ø 17 mm (reticule 0,05 mm)	○	○	OZB-A5513	110,-
	SWF 20x / Ø 14 mm (reticule 0,05 mm)	○	○	OZB-A5514	110,-
Plan achromatic objective	1,0x	●	●	OZB-A5603	495,-
Achromatic objectives	0,5x	○	○	OZB-A5601	195,-
	0,7x	○	○	OZB-A5602	195,-
	1,5x (Only in combination with OZB-A5603)	○	○	OZB-A5604	255,-
Trinocular beamsplitter	Division 100:0	●	●	OZB-A5401	575,-
	Division 50:50	○	○	OZB-A5402	575,-
C-Mount	0,3x	○	○	OZB-A5701	120,-
	0,5x	○	○	OZB-A5702	120,-
	1,0x	○	○	OZB-A5703	95,-
	1,0x (reticule) only in combination with OZB-A5703	○	○	OZB-A5704	250,-
	for SLR cameras (Nikon)	○	○	OZB-A5706	250,-
	for SLR cameras (Olympus)	○	○	OZB-A5707	250,-
	for SLR cameras (Canon)	○	○	OZB-A5708	250,-
Darkfield attachment	Darkfield attachment	○	○	OBB-A4601	85,-
Object clamp	Object clamp	○	○	OBB-A6205	45,-
Stands	Pillar style, without illumination	●			
	Pillar style, with 3W LED illumination (transmitting + incident)		●		
Stage plate	Frosted glass / Ø 94,5 mm		●	OZB-A5192	30,-
	Black-white / Ø 94,5 mm	●	●	OZB-A5191	30,-
	Glass / Ø 94,5 mm		○	OZB-A5190	30,-
Mechanical stage	Stage size: WxD 188x160 mm, Travel: 76x65 mm, for incident and transmitting illumination	○	○	OZB-A5781	165,-
	Stage size: WxD 180x175 mm, Travel: 100x86 mm, for incident illumination only	○	○	OZB-A5782	240,-
External illumination	Please find the information about external illumination units in the catalogue from page 68 and on our website www.kern-sohn.com				

● = Standard configuration

○ = Option

Stereo zoom microscope KERN OZS-5



OZS 573



OZS 574

PROFESSIONAL LINE

The high-zoom parallel model for the professional user

Features

- The KERN OZS-5 models are highly professional, very robust but easy to use stereo microscopes with a zoom function operable from both sides for an above-average enlargement range.
- Their qualities, the flexible pillar stand and the optional integral, powerful and long-life LED incident and transmitted illumination make these models especially flexible.
- All models have diopter adjustment on both tubes and are supplied with an adapter, allowing a camera to be fitted.
- The parallel optical system allows work without tiring the eyes and offers a large depth of field. In addition, only very minor refocussing at the zoom enlargement is necessary.
- Furthermore, it provides precise resolution, an extra large field of view and is absolutely true-to-colour.
- These models are optimally suited to quality control, assembly and repair workstations

- in the electronics and semi-conductor industries as well as in biological laboratories and research establishments.
- These models are also ideal for use at workstations in rough working environments, such as training establishments, workshops and in production.
- These models offer the best possible ease of use thanks to their extra large working distance providing a large working surface.
- The multitude of auxiliary objectives, eyepieces, universal stands and additional accessory parts facilitates use in all common and professional stereo microscopy applications.
- One of the central features of this variable and simultaneously robust series of microscopes is the stable and precisely adjustable mechanism. This is underlined by the functional and ergonomic design.

Technical data

- Optical system: Parallel
- Brightness adjustable
- Magnification ratio: 10:1
- Tube: 45° inclined
- Interpupillary distance: 52 – 76 mm
- Diopter adjustment (both-sided)
- Packing dimensions WxDxH 370x330x385 mm

OZS 573

- Net weight approx. 6,1 kg

OZS 574

- Net weight approx. 7,1 kg

Please find detailed information in the following charts.

STANDARD



OPTION



Model	Standard configuration						Price excl. of VAT ex works €
	Tube	Eyepiece	Field of view mm	Objective Zoom	Stand	Illumination	
KERN							
OZS 573	Trinocular	HWF 10x Ø 22 mm	Ø 27,5 – 2,75	0,8x – 8x	Pillar style	-	2885,-
OZS 574	Trinocular	HWF 10x Ø 22 mm	Ø 27,5 – 2,75	0,8x – 8x	Pillar style	3W LED (incident); 3W LED (transmitting)	3110,-

Stereo zoom microscope KERN OZS-5

Eyepiece	Specifications - Objectives				
	Magnification	Standard Plan 1,0x	Achromatic objectives		
			0,5x	0,7x	1,5x (Auxiliary)
HWF 10x	Total magnification	8x - 80x	4x - 40x	5,6x - 56x	12x - 120x
	Field of view mm	Ø 27,5 - 2,75	Ø 55 - 5,5	Ø 39,3 - 3,93	Ø 18,33 - 1,83
SWF 15x	Total magnification	12x - 120x	6x - 60x	8,4x - 84x	18x - 180x
	Field of view mm	Ø 21,25 - 2,13	Ø 42,5 - 4,25	Ø 30,36 - 3,04	Ø 14,17 - 1,42
SWF 20x	Total magnification	16x - 160x	8x - 80x	11,2x - 112x	24x - 240x
	Field of view mm	Ø 17,5 - 1,75	Ø 35 - 3,5	Ø 25 - 2,5	Ø 11,67 - 1,17
SWF 30x	Total magnification	24x - 240x	12x - 120x	16,8x - 168x	36x - 360x
	Field of view mm	Ø 11,25 - 1,13	Ø 22,5 - 2,25	Ø 16,1 - 1,61	Ø 7,5 - 0,75
Working distance		91 mm	186 mm	135 mm	40 mm

Model outfit		Model KERN		Order number	Price excl. of VAT ex works €
		OZS 573	OZS 574		
Eyepieces	HWF 10x / Ø 22 mm	●●	●●	OZB-A5502	60,-
	SWF 15x / Ø 17 mm	○○	○○	OZB-A5504	60,-
	SWF 20x / Ø 14 mm	○○	○○	OZB-A5505	70,-
	SWF 30x / Ø 9 mm	○○	○○	OZB-A5506	85,-
	HWF 10x / Ø 22 mm (reticule 0,1 mm)	○	○	OZB-A5511	95,-
	SWF 15x / Ø 17 mm (reticule 0,05 mm)	○	○	OZB-A5513	110,-
	SWF 20x / Ø 14 mm (reticule 0,05 mm)	○	○	OZB-A5514	110,-
Plan achromatic objective	1,0x	●	●	OZB-A5603	495,-
Achromatic objectives	0,5x	○	○	OZB-A5601	195,-
	0,7x	○	○	OZB-A5602	195,-
	1,5x (Only in combination with OZB-A5603)	○	○	OZB-A5604	255,-
Trinocular beamsplitter	Division 100:0	●	●	OZB-A5401	575,-
	Division 50:50	○	○	OZB-A5402	575,-
C-Mount	0,3x	○	○	OZB-A5701	120,-
	0,5x	○	○	OZB-A5702	120,-
	1,0x	○	○	OZB-A5703	95,-
	1,0x (reticule) only in combination with OZB-A5703	○	○	OZB-A5704	250,-
	for SLR cameras (Nikon)	○	○	OZB-A5706	250,-
	for SLR cameras (Olympus)	○	○	OZB-A5707	250,-
	for SLR cameras (Canon)	○	○	OZB-A5708	250,-
Darkfield attachment	Darkfield attachment	○	○	OBB-A4601	85,-
Object clamp	Object clamp	○	○	OBB-A6205	45,-
Stands	Pillar style, without illumination	●			
	Pillar style, with 3W LED illumination (transmitting + incident)		●		
Stage plate	Frosted glass / Ø 94,5 mm		●	OZB-A5192	30,-
	Black-white / Ø 94,5 mm	●	●	OZB-A5191	30,-
	Glass / Ø 94,5 mm		○	OZB-A5190	30,-
Mechanical stage	Stage size: WxD 188x160 mm, Travel: 76x65 mm, for incident and transmitting illumination	○	○	OZB-A5781	165,-
	Stage size: WxD 180x175 mm, Travel: 100x86 mm, for incident illumination only	○	○	OZB-A5782	240,-
External illumination	Please find the information about external illumination units in the catalogue from page 68 and on our website www.kern-sohn.com				

● = Standard configuration

○ = Option

Coaxial microscope KERN OZC-5



Plug in for power supply

4

PROFESSIONAL LINE

The coaxial model for your LCD / LED-electronic and semi-conductor workstation

Features

- The KERN OZC-5 models are very robust and easy to use trinocular stereo microscopes, with a zoom range operated from both sides and coaxial illumination for above-average images with excellent contrast and depth of field.
- The base is solid and therefore extremely stable.
- Their ideal applications are at monitoring, control and measuring workstations in the semi-conductor, LCD and LED industries, where coaxial illumination is required.
- The parallel optical system allows work without tiring the eyes. In addition, only very minor refocussing at the zoom enlargement is necessary.
- Furthermore, it provides precise resolution, an extra large field of view and is absolutely true-to-colour.
- These models offer the best possible ease of use thanks to their extra large working distance providing a large working surface.
- The multitude of eyepieces and additional accessory parts facilitates use in all common and professional stereo microscopy applications.
- One of the central features of this variable and simultaneously robust series of microscopes is the stable and precisely adjustable mechanism. This is underlined by the functional and ergonomic design.

Technical data

- Optical system: Parallel
- Brightness adjustable
- Magnification ratio: 3,6:1
- Tube: 45° inclined
- Interpupillary distance: 52 - 76 mm
- Diopter adjustment (both-sided)
- Packing dimensions WxDxH 370x330x385 mm
- Net weight approx. 7,1 kg

Please find detailed information in the following charts.

STANDARD



OPTION



Model	Standard configuration						Price excl. of VAT ex works €
	Tube	Eyepiece	Field of view mm	Objective Zoom	Stand	Illumination	
KERN							
OZC 583	Trinocular	HSWF 10x Ø 23 mm	Ø 12,78 - 3,5	1,8x - 6,5x	Arm curved	2W LED (coaxial incident)	4490,-

Coaxial microscope KERN OZC-5

Eyepiece	Specifications - Objectives	
	Magnification	Standard 1,0x
HWF 10x	Total magnification	18x - 65x
	Field of view mm	Ø 12,78 - 3,5
SWF 15x	Total magnification	27x - 97,5x
	Field of view mm	Ø 9,5 - 2,6
SWF 20x	Total magnification	36x - 130x
	Field of view mm	Ø 7,78 - 2,2
SWF 30x	Total magnification	54x - 195x
	Field of view mm	Ø 5 - 1,4
Working distance		92 mm

Model outfit		Model KERN	Order number	Price excl. of VAT ex works €
		OZC 583		
Eyepieces	HSWF 10x / Ø 23 mm	●●	OZB-A5503	60,-
	SWF 15x / Ø 17 mm	○○	OZB-A5504	60,-
	SWF 20x / Ø 14 mm	○○	OZB-A5505	70,-
	SWF 30x / Ø 9 mm	○○	OZB-A5506	85,-
	HSWF 10x / Ø 23 mm (reticule 0,1 mm)	○	OZB-A5512	95,-
	SWF 15x / Ø 17 mm (reticule 0,05 mm)	○	OZB-A5513	110,-
	SWF 20x / Ø 14 mm (reticule 0,05 mm)	○	OZB-A5514	110,-
C-Mount	0,3x	○	OZB-A5701	120,-
	0,5x	○	OZB-A5702	120,-
	1,0x	○	OZB-A5703	95,-
	1,0x (with micrometer) only in combination with OZB-A5703	○	OZB-A5704	250,-
	for SLR cameras (Nikon)	○	OZB-A5706	250,-
	for SLR cameras (Olympus)	○	OZB-A5707	250,-
	for SLR cameras (Canon)	○	OZB-A5708	250,-
Stands	Arm curved, without illumination	●		
Mechanical stage	Stage size: WxD 188x160 mm, Travel: 76x65 mm, for incident and transmitting illumination	○	OZB-A5781	165,-
	Stage size: WxD 180x175 mm, Travel: 100x86 mm, for incident illumination only	○	OZB-A5782	240,-
External illumination	Please find the information about external illumination units in the catalogue from page 68 and on our website www.kern-sohn.com			

● = Standard configuration

○ = Option



OZG 493



OZG 497



Backside of OZG 497



Tilt positions



Tilt positions

LAB LINE

The flexible model for the jeweller and the jewellery industry

Features

- The KERN OZG-4 models are stereo microscopes with zoom function specially developed for the jewellery industry and jewellers.
- The KERN OZG 493 is equipped with a pillar stand and bright integral halogen incident and transmitted illumination units.
- The KERN OZG 497 is provided with a mechanical stand and is extremely flexible thanks to its tip and rotate function. Together with its powerful illumination including a fiber illumination, this is an ideal solution for jewellers and the jewellery industry.

- In addition to their very good optical properties, these models offer an optimal package thanks to their dark field unit with stage clamp, provided with the microscope.
- One of the central features of this variable and simultaneously robust series of microscopes is the stable and precisely adjustable mechanism.

Technical data

- Optical system: Greenough
- Brightness adjustable
- Tube: 45° inclined
- Interpupillary distance: 55 – 75 mm
- Diopter adjustment (both-sided)

OZG 493

- Magnification ratio: 5,1:1
- Packing dimensions WxDxH 365x292x470 mm
- Net weight approx. 5 kg

OZG 497

- Magnification ratio: 6,7:1
- Packing dimensions WxDxH 370x355x480 mm
- Net weight approx. 11 kg

Please find detailed information in the following charts.

STANDARD



Model	Standard configuration						Price excl. of VAT ex works €
	Tube	Eyepiece	Field of view mm	Objective Zoom	Stand	Illumination	
KERN							
OZG 493	Binocular	HWF 10x Ø 21,5 mm	Ø 28 – 5,6	0,7x – 3,6x	Pillar style	12V / 10W Halogen (incident) 12V / 10W Halogen (transmitting) 10W Fluorescence (front illumination)	485,-
OZG 497	Trinocular	HSWF 10x Ø 23 mm	Ø 33 – 5,1	0,75x – 5,0x	Arm curved	12V / 10W Halogen (transmitting) 10W Fluorescence (front illumination including single fiber)	1820,-

Gem microscope KERN OZG-4

OZG 493		
Specifications - Objectives		
Eyepiece	Magnification	Standard 1,0x
WF 5x	Total magnification	3,75x - 18x
	Field of view mm	Ø 26 - 6
HWF 10x	Total magnification	7,5x - 36x
	Field of view mm	Ø 28 - 6
WF 15x	Total magnification	11,25x - 54x
	Field of view mm	Ø 19 - 4,5
WF 20x	Total magnification	15x - 72x
	Field of view mm	Ø 12,5 - 3
Working distance		86 mm

OZG 497		
Specifications - Objectives		
Eyepiece	Magnification	Standard 1,0x
HWF 5x	Total magnification	3,75x - 25x
	Field of view mm	Ø 31 - 4,6
HSWF 10x	Total magnification	7,5x - 50x
	Field of view mm	Ø 33 - 5
HWF 15x	Total magnification	11,25x - 75x
	Field of view mm	Ø 24 - 4,2
HSWF 20x	Total magnification	15x - 100x
	Field of view mm	Ø 20 - 3,5
HWF 25x	Total magnification	18,75x - 125x
	Field of view mm	Ø 15,8 - 2,4
Working distance		113 mm

Model outfit		Model KERN		Order number	Price excl. of VAT ex works €
		OZG 493	OZG 497		
Eyepieces	WF 5x / Ø 16,2 mm	oo		OZB-A4101	50,-
	HWF 10x / Ø 21,5 mm	●●		OZB-A4106	50,-
	WF 15x / Ø 15 mm	oo		OZB-A4103	45,-
	WF 20x / Ø 10 mm	oo		OZB-A4104	50,-
	HWF 5x / Ø 23,2 mm		oo	OZB-A4112	55,-
	HSWF 10x / Ø 23 mm		●●	OZB-A4118	55,-
	HWF 15x / Ø 15 mm		oo	OZB-A4119	55,-
	HSWF 20x / Ø 14,5 mm		oo	OZB-A4120	70,-
	HWF 25x / Ø 11,7 mm		oo	OZB-A4121	70,-
C-Mount	1x		o	OZB-A4809	65,-
	0,3x		o	OZB-A4810	85,-
	0,5x		o	OZB-A4811	100,-
Darkfield attachment	Darkfield attachment	●	●	OZB-A4601	70,-
Object clamp	Object clamp (steel wire)	●	●	OZB-A4604	45,-
Stands	Pillar style, with 12V / 10W Halogen (transmitting + incident) and 10W Fluorescent illumination (front)	●			
	Arm curved, with 12V / 10W Halogen (transmitting) and 10W Fluorescent illumination (front) + Single fiber illumination		●		

● = Standard configuration

o = Option