KERN - Tradition and Innovation for 170 years

An independent family business, KERN since already 7 generations is synonymous with quality and reliability in customer service.

fast

- 24 hours delivery service order today, on its way tomorrow
- Sales & service hotline from 8:00 am to 6:00 pm

reliable

- 3 years warranty for instruments over € 400,-
- · Certified QM system DIN EN ISO 9001:2008

E-mail order

Fax Order Fax Order +49 [0] 7433 9933-146

info@kern-sohn.com

versatile

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







www.kern-sohn.com

Our team of consultants will assist you

from Monday to Friday from 8:00 am to 6:00 pm www.kern-sohn.com

For product specification sheets, user manuals, useful information, technical glossary pictures and much more to download

KERN & SOHN GmbH Microscopes and Refractometers Ziegelei 1

72336 Balingen Germany

Tel. +49[0]7433 9933-0 Fax +49[0]74339933-149

info@kern-sohn.com www.kern-sohn.com





MICROSCOPES & REFRACTOMETERS

for laboratory, industry and food



2015

Do you have questions about our products? Our customer consultants will be pleased to assist you:



South East Asia Corinna Klaass Tel. +49[0]7433 9933-215

Fax +49[0]7433 9933-29215 corinna.klaass@kern-sohn.com



PT, SLO, HR, BA, RS, MK, BE, LUX **Taras Mikitisin**

Tel. +49[0]7433 9933-143 Fax +49[0]7433 9933-29143 Mobil +49 [0] 171 5590115 mikitisin@kern-sohn.com



RO, CZ, SK, HU, DE (ZIP Code 4, 5) Katharina Queitsch Tel. +49[0]7433 9933-218 Fax +49[0]7433 9933-29218

Mobil +49 [0] 151 46142894 katharina.queitsch@kern-sohn.com



GB, IE, MT, Scandinavia Marietta Diener

Tel. +49[0]7433 9933-167 Fax +49[0]7433 9933-29167 Mobil +49 [0] 151 46143236 diener@kern-sohn.com

Special questions for the OPTICS product management:



Manager KERN Optics Daniel Junger Tel. +49 [0] 7433 9933 - 155 Fax +49[0]7433 9933-149

daniel.junger@kern-sohn.com



Segment Development Ingo Schlaich

Tel. +49[0]7433 9933-158 Fax +49[0]7433 9933-149



Assistant Technical Sales & Product Management KERN Optics Samuel Haasis

Tel. +49 [0] 7433 9933 - 173 Fax +49[0]7433 9933-29173 samuel.haasis@kern-sohn.com



Product specialist for optical instruments **Ralf Gutbrod**

Tel. +49[0]74339933-306 Fax +49[0]74339933-29306 ralf.gutbrod@kern-sohn.com

Quick help for all questions regarding our technical service and maintenance:



Technical Service Frank Eigler

Tel. +49[0]7433 9933-166 Fax +49[0]7433 9933-195 eigler@kern-sohn.com



Technical Service

Tel. +49[0]7433 9933-193 Fax +49[0]7433 9933-195



Technical Service Heiko Taufenbach Tel. +49[0]7433 9933-120

Fax +49[0]74339933-195 taufenbach@kern-sohn.com



Max-Julian Matthes

matthes@kern-sohn.com

Special questions on sales & marketing:



General Management **Albert Sauter**

Tel. +49 [0] 7433 9933-157 Fax +49[0]7433 9933-29157 albert-sauter@kern-sohn.com

Marketing Management Thomas Fimpel



Sales Management **Ulrich Ulmer** Tel. +49[0]7433 9933-160 Fax +49[0]74339933-29160 Mobil +49 [0] 172 7423944 ulmer@kern-sohn.com



Tel. +49[0]7433 9933-130 Fax +49[0]7433 9933-29130 mpel@kern-sohn.com







Product group index 2015



Microscopes

1	Compound microscopes	06	1
2	Metallurgical microscopes	22	2
3	Polarizing microscopes	29	3
4	Stereomicroscopes	35	4
5	Stereomicroscope stands	64	5
6	External light sources for stereomicroscopes	68	6
7	Microscope cameras	70	7



Refractometers

8	Analogue refractometers – type: hand-held	74	8
9	Digital refractometers - type: hand-held	80	9
10	Abbe refractometers – type: desktop	85	10





Microscopes

I	Compound microscopes Compound, Fluorescence, Digital and Inverted microscopes	(
2	Metallurgical microscopes	22
3	Polarizing microscopes	29
4	Stereomicroscopes Stereo, Stereo-Zoom, Coaxial and Gem microscopes	35
5	Stereomicroscope stands	64
6	External illumination units for stereomicroscopes Ring illumination and cold light sources	68
7	Microscope cameras	70

Your KERN product specialist will be happy to help:



Daniel Junger Manager KERN Optics

Tel. +49 [0] 7433 9933-155 Fax +49 [0] 7433 9933-149 daniel.junger@kern-sohn.com

Compound microscopes Compound, Fluorescence, Digital and Inverted microscopes















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.

























min
SCALE

Мо	odel			Standard configuration	Price excl. of VAT
KEI	RN	Optical system	Tube	Illumination	ex works €
ОВ	E 111	Achromatic	Monocular	3W LED (transmitting)	480,-
ОВ	E 112	Achromatic	Binocular	3W LED (transmitting)	580,-
ОВ	E 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		
	WF 10x/Ø 18 mm	•	••	••	OBB-A1347	55,-
Eyepieces	WF 10x/Ø 18 mm (with Pointer)	0	0	0	OBB-A1348	55,-
Eyepieces	WF 16x/Ø 13 mm	0	00	00	OBB-A1354	55,-
	WF 10x/Ø 18 mm (reticule 0,1 mm) (non-adjustable)	0	0	0	OBB-A1349	80,-
	4x / 0,10	•	•	•	OBB-A1111	45,-
	10x/0,25	•	•	•	OBB-A1108	55,-
Achromatic	40x / 0,65 (spring)	•	•	•	OBB-A1112	75,-
objectives	100x / 1,25 (oil) (spring)	•	•	•	OBB-A1109	105,-
	20x/0,40	0	0	0	OBB-A1110	85,-
	60x / 0,85 (spring)	0	0	0	OBB-A1113	105,-
Monocular tube	30° inclined, 360° rotatable	•			OBB-A1227	105,-
Binocular tube	Siedentopf, 30° inclined, 360° rotatable Interpupillary distance: 50 – 75 mm With diopter adjustment (one-sided)		•	•	OBB-A1123	220,-
Nosepiece	Quadplex	•	•	•		
Mechanical stage	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	0	0	0	OBB-A1148	85,-
Polarising unit	Analyser / Polariser	0	0	0	OBB-A1276	265,-
IIItu aktau	3W LED illumination system (transmitting) (non-rechargeable)	•	•			
Illumination	3W LED illumination system (transmitting) (rechargeable)			•		

ullet = Standard configuration

o = Option





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.































UIIIY OEL						
Model		Standard configuration				
KERN	Optical system	Tube	Illumination	ex works €		
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,-		

Model outfit			Model KERN		Order number	Price excl. of VAT
		OBF 121	OBF 122	OBF 123		ex works €
	WF 10x / Ø 18 mm	••	••	••	OBB-A1347	55,-
	WF 16x/Ø 13 mm	00	00	00	OBB-A1354	55,-
Eyepieces	WF 10x / Ø 18 mm (reticule 0,1 mm) (non-adjustable)	0	0	0	OBB-A1349	80,-
	WF 10x / Ø 18 mm (reticule 0,1 mm) (adjustable)	0	0	0	OBB-A1350	100,-
	WF 10x / Ø 20 mm (reticule 0,1 mm) (adjustable)	0	0	0	OBB-A1352	150,-
	4x/0,10	•			OBB-A1111	45,-
	10x/0,25	•			OBB-A1108	55,-
Achromatic	40x / 0,65 (spring)	•			OBB-A1112	75,-
objectives	100x / 1,25 (oil) (spring)	•			OBB-A1109	105,-
	20x/0,40	0	0	0	OBB-A1110	85,-
	60x / 0,85 (spring)	0	0	0	OBB-A1113	105,-
	4x/0,10		•	•	OBB-A1255	65,-
	10x/0,25		•	•	OBB-A1238	80,-
	40x / 0,65 (spring)		•	•	OBB-A1256	120,-
Plan objectives	100x / 1,25 (oil) (spring)		•	•	OBB-A1239	150,-
	20x/0,40		0	0	OBB-A1249	115,-
	60x / 0,85 (spring)		0	0	OBB-A1269	155,-
Binocular tube	Siedentopf, 30° inclined, 360° rotatable Interpupillary distance: 50 – 75 mm (for non-infinity system) With diopter adjustment (one-sided)	•	•	•	OBB-A1129	260,-
Trinocular tube	Siedentopf, 30° inclined, 360° rotatable Interpupillary distance: 50 – 75 mm Light distribution: 20:80 (for non-infinity system) With diopter adjustment (one-sided)	0	0	0	OBB-A1345	370,-
Nosepiece	Quadplex	•	•	•		
Mechanical stage	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,-
	6V / 20W Halogen spare bulb (transmitting)	•	•		OBB-A1370	30,-
Illumination	3W LED illumination system (transmitting) (non-rechargeable)			•		
Field diaphragm	Field diaphragm	•	•	•		
Darkfield unit	N.A. 0,9 (Dry) Usable for 4x – 40x objectives	0	0	0	OBB-A1149	85,-
Polarising unit	Analyser / Polariser	0	0	0	OBB-A1277	265,-
Fluorescence unit	100W HBO Epi Fluorescence unit, three-hole slide (B / G) including centering objective	0	0	0	OBB-A1154	2350,-
Truorescence unit	3W LED Epi Fluorescence unit, three-hole slide (B / G) including centering objective	0	0	0	OBB-A1157	3380,-
	Blue (built-in)	•	•	•	OBB-A1178	30,-
Filter	Green	0	0	0	OBB-A1194	30,-
	Yellow	0	0	0	OBB-A1203	30,-
C-Mount	0,47x (focus adjustable)	0	0	0	OBB-A1135	160,-
O-IVIOUITE	1x	0	0	0	OBB-A1142	115,-

Standard configuration

o = Option

Compound microscope KERN OBL-1

Model outfit		Mode	I KERN	Order number	Price excl. of VAT
		OBL 125	OBL 127		ex works €
	WF 10x/Ø 20 mm	••	••	OBB-A1351	95,-
	WF 16x/Ø 13 mm	00	00	OBB-A1354	55,-
yepieces	WF 10x / Ø 18 mm (reticule 0,1 mm)	0	0	OBB-A1349	80,-
	WF 10x / Ø 18 mm (reticule 0,1 mm) (adjustable)	0	0	OBB-A1350	100,-
	WF 10x / Ø 20 mm (reticule 0,1 mm) (adjustable)	0	0	OBB-A1352	150,-
	4x/0,10	•	•	OBB-A1161	90,-
	10x/0,25	•	•	OBB-A1159	145,-
nfinity	40x / 0,65 (spring)	•	•	OBB-A1160	260,-
	100x / 1,25 (oil) (spring)	•	•	OBB-A1158	335,-
E-Plan objectives	Plan 20x / 0,40	0	0	OBB-A1250	260,-
	Plan 60x / 0,85 (spring)	0	0	OBB-A1270	355,-
Binocular tube	Siedentopf, 30° inclined, 360° rotatable Interpupillary distance: 50 – 75 mm (for infinity system) With diopter adjustment (one-sided)	•	•	OBB-A1130	260,-
rinocular tube	Siedentopf, 30° inclined, 360° rotatable Interpupillary distance: 50 – 75 mm Light distribution: 20:80 (for infinity system) With diopter adjustment (one-sided)	0	0	OBB-A1346	370,-
losepiece	Quadplex	•	•		
Mechanical stage	 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,-
	6V / 20W Halogen spare bulb (transmitting)	•		OBB-A1370	30,-
llumination	3W LED illumination system (transmitting) (non-rechargeable)		•		
ield diaphragm	Field diaphragm	•	•		
Parkfield unit	N.A. 0,9 (Dry) Usable for 4x – 40x objectives	0	0	OBB-A1149	85,-
olarising unit	Analyser / Polariser	0	0	OBB-A1277	265,-
ndenendent nhase	Independent slot with ∞ PH-Plan objective 10x	0	0	OBB-A1215	320,-
ontrast unit	Independent slot with ∞ PH-Plan objective 20x	0	0	OBB-A1217	360,-
H-condenser and	Independent slot with ∞ PH-Plan objective 40x	0	0	OBB-A1219	440,-
PH-condenser and PH-slides)	Independent slot with ∞ PH-Plan objective 100x	0	0	OBB-A1213	530,-
Fluorescence unit	100W HBO Epi Fluorescence unit, three-hole slide (B / G) including centering objective	0	0	OBB-A1154	2350,-
	3W LED Epi Fluorescence unit, three-hole slide (B / G) including centering objective	0	0	OBB-A1157	3380,-
	Blue	•	•	OBB-A1178	30,-
ilter	Green	0	0	OBB-A1194	30,-
Binocular tube Trinocular tube Nosepiece Mechanical stage Condenser Illumination Field diaphragm Darkfield unit Polarising unit Independent phase contrast unit (including PH-condenser and PH-slides)	Yellow	0	0	OBB-A1203	30,-
` Mount	0,47x (focus adjustable)	0	0	OBB-A1135	160,-
-iviount	1x	0	0	OBB-A1142	115,-

Standard configuration

O = Option





Easy connection to the PC, Laptop not included in delievery

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



Model

KERN OBD 127







Optical system





Tube



Binocular / digital



Standa



ar	d configuration	Price excl. of VAT
	Illumination	ex works €
	6V / 20W Halogen (transmitting)	1600,-

Infinity

Compound microscope KERN OBD-1

Model outfit		Model KERN	Order number	Price excl. of VAT
		OBD 127		ex works €
Eyepiece	WF 10x/Ø 20 mm	••	OBB-A1351	95,-
	4x/0,10	•	OBB-A1161	90,-
Infinity	10x/0,25	•	OBB-A1159	145,-
	40x / 0,65 (spring)	•	OBB-A1160	260,-
E-Plan objectives	100x / 1,25 (oil) (spring)	•	OBB-A1158	335,-
	Plan 20x / 0,40	0	OBB-A1250	260,-
	Plan 60x / 0,80 (spring)	0	OBB-A1270	355,-
Digital tube Trinocular (3MP)	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	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	0	OBB-A1149	85,-
Polarising unit	Analyser / Polariser	0	OBB-A1277	265,-
Independent phase contrast unit (including PH-condenser and PH-clides)	Independent slot with ∞ PH-Plan objective 10x	0	OBB-A1215	320,-
	Independent slot with ∞ PH-Plan objective 20x	0	OBB-A1217	360,-
	Independent slot with ∞ PH-Plan objective 40x	0	OBB-A1219	440,-
PH-slides)	Independent slot with ∞ PH-Plan objective 100x	0	OBB-A1213	530,-
Filter	Blue (built-in)	•	OBB-A1178	30,-

^{• =} Standard configuration

O = Option





Nosepiece and stage



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



Quintuple hole turret with 10x/20x/40x/100xInfinity-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.



























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

Compound microscope KERN OBN-13

Model outfit		Model KERN	Order number	Price excl. of VAT
WE 40 17 12		OBN 132		ex works €
	WF 10x/Ø 18 mm	00	OBB-A1347	55,-
	WF 10x/Ø 20 mm	••	OBB-A1351	95,-
Eyepieces	WF 16x/Ø 13 mm	00	OBB-A1354	55,-
	WF 10x/Ø 18 mm (reticule 0,1 mm) (adjustable)	0	OBB-A1350	100,-
	WF 10x/Ø 20 mm (reticule 0,1 mm) (adjustable)	0	OBB-A1352	150,-
	4x/0,10	•	OBB-A1263	115,-
Infinity Plan achromatic objectives	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	0	OBB-A1247	265,-
	60x / 0,80 (spring)	0	OBB-A1270	355,-
Tube Binocular	Siedentopf, 30° inclined, 360° rotatable Interpupillary distance: 50 - 75 mm With diopter adjustment (both-sided)	0	OBB-A1125	260,-
Trinocular tube	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	Stage size: WxD 175x145 mm Travel: 78x55 mm Coaxial coarse and fine focusing knobs Two slide holder	•		
	Abbe N.A. 1,25 center-adjustable (aperture diaphragm)	•	OBB-A1102	85,-
Condenser	Swing-out condenser N.A. 0,9 / 0,13 center-adjustable (aperture diaphragm)	0	OBB-A1104	215,-
Koehler illumination	6V / 20W Halogen spare bulb (transmitting)	•	OBB-A1370	30,-
Polarising unit	Analyser / Polariser	0	OBB-A1283	265,-
	Quintuple hole turret with 10x / 20x / 40x / 100x Infinity-PH-Plan objectives (complete set)	0	OBB-A1237	1650,-
Phase contrast unit	Independent slot with ∞ PH-Plan objective 10x	0	OBB-A1214	320,-
nado contract ame	Independent slot with ∞ PH-Plan objective 20x	0	OBB-A1216	360,-
	Independent slot with ∞ PH-Plan objective 40x	0	OBB-A1218	440,-
	Independent slot with ∞ PH-Plan objective 100x	0	OBB-A1212	530,-
Darkfield unit	N.A. 0,9 (Dry) Usable for 4x – 40x objectives	0	OBB-A1150	85,-
C-Mount	1x	0	OBB-A1140	105,-
5-Iviount	0,57x (focus adjustable)	0	OBB-A1136	160,-
	100W HBO Epi Fluorescence unit 6-filter disc (UV / V / B / G) including centering objective	0	OBB-A1155	4070,-
Fluorescence unit	100W HBO Epi Fluorescence unit, two-hole slide (B / G) including centering objective	0	OBB-A1153	2350,-
	3W LED Epi Fluorescence unit (B / G) including centering objective	0	OBB-A1156	3380,-
Field diaphragm	Field diaphragm	•		
	Blue	•	OBB-A1170	30,-
Filter	Green	0	OBB-A1187	30,-
	Yellow	0	OBB-A1201	30,-

Standard configuration

o = Option





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.































Model		Standard configuration						
KERN	Optical system	Tube	Illumination	ex works €				
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		Mode	I KERN	Order number	Price excl. of VAT
		OBN 147	OBN 148	_	ex works €
	WF 10x / Ø 20 mm	••	••	OBB-A1351	95,-
Forestone	WF 16x/Ø 13 mm	00	00	OBB-A1354	55,-
Eyepieces	WF 10x / Ø 18 mm (reticule 0,1 mm) (adjustable)	0	0	OBB-A1350	100,-
	WF 10x / Ø 20 mm (reticule 0,1 mm) (adjustable)	0	0	OBB-A1352	150,-
	4x/0,10	•	•	OBB-A1263	115,-
	10x/0,25	•	•	OBB-A1243	190,-
Infinity	20x/0,40	•	•	OBB-A1250	260,-
Plan achromatic objectives	40x / 0,66 (spring)	•	•	OBB-A1257	280,-
	100x / 1,25 (oil) (spring)	•	•	OBB-A1240	320,-
	2,5x/0,07	0	0	OBB-A1247	265,-
	60x / 0,80 (spring)	0	0	OBB-A1270	355,-
Binocular tube	Siedentopf, 30° inclined, 360° rotatable Interpupillary distance: 50 – 75 mm With diopter adjustment (both-sided)	0	0	OBB-A1125	260,-
Trinocular tube	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	Stage size: WxD 175x145 mm, Travel: 78x55 mm Coaxial coarse and fine focusing knobs Two slide holder	•	•		
	Abbe N.A. 1,25 center-adjustable (aperture diaphragm)	•	•	OBB-A1102	85,-
Condenser	Swing-out condenser N.A. 0,9 / 0,13 center-adjustable (aperture diaphragm)	0	0	OBB-A1104	215,-
Koehler illumination	6V / 20W Halogen spare bulb (transmitting)	•	•	OBB-A1370	30,-
Polarising unit	Analyser / Polariser	0	0	OBB-A1283	265,-
	Quintuple hole turret with 10x/20x/40x/100x Infinity-PH-Plan objectives (complete set)	0	0	OBB-A1237	1650,-
	Independent slot with ∞ PH-Plan objective 10x	0	0	OBB-A1214	320,-
Phase contrast unit	Independent slot with ∞ PH-Plan objective 20x	0	0	OBB-A1216	360,-
	Independent slot with ∞ PH-Plan objective 40x	0	0	OBB-A1218	440,-
	Independent slot with ∞ PH-Plan objective 100x	0	0	OBB-A1212	530,-
Darkfield unit	N.A. 0,9 (Dry) Usable for 4x – 40x objectives	0	0	OBB-A1150	85,-
C-Mount	1x	0	0	OBB-A1140	105,-
C-WOUTT	0,57x (focus adjustable)	0	0	OBB-A1136	160,-
Fluorescence unit	100W HBO Epi Fluorescence unit 6-filter disc (UV / V / B / G) including centering objective		•	OBB-A1155	4070,-
aorescence unit	100W HBO Epi Fluorescence unit, two-hole slide (B / G) including centering objective	•		OBB-A1153	2350,-
Field diaphragm	Field diaphragm	•	•		
	Blue	•	•	OBB-A1170	30,-
Filter	Green	0	0	OBB-A1187	30,-
	Yellow	0	0	OBB-A1201	30,-

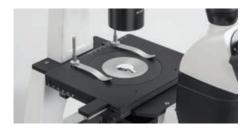
• = Standard configuration

o = Option





Trinocular head



Stage





Phase contrast slide

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

3100,-

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
- · 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 availabe 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



Model

KERN OCL 251

OCL 252







Infinity

Infinity



Optical system







Tube

Trinocular

Trinocular







6V / 30W Halogen (transmitting)

Standard configuration	Price excl. of VAT
Illumination	ex works €
6V / 30W Halogen (transmitting)	3100,-

Inverted microscope KERN OCL-2

Model outfit			Mode	I KERN	Order number	Price excl. of VAT
			OCL 251	OCL 252		ex works €
	HWF 10x / Ø 20 mm		••	••	OBB-A2403	55,-
	WF 16x / Ø 13 mm		00	00	OBB-A2406	40,-
Evenieces	HWF 10x/Ø 18 mm (reticule 0,1 mm)		0	0	OBB-A2404	190,-
Eyepieces	HWF 10x/Ø 20 mm (reticule 0,1 mm)		0	0	OBB-A2410	110,-
	HWF 10x / Ø 22 mm (Only in combination with tube OBB-A2407)	/ OBB-A2408)	00	00	OBB-A2409	70,-
	4x / 0,13		0	0	OBB-A2413	100,-
Infinity	10x/0,25		•	•	OBB-A2414	160,-
Plan achromatic objectives	20x/0,40		•	•	OBB-A2415	225,-
(for long working distance)	40x/0,60		•	•	OBB-A2416	325,-
a.o.aoo,	60x/0,70		0	0	OBB-A2417	425,-
Dia conton todo	30° inclined Interpupillary distance: 52 – 75 mm With diopter adjustment (one-sided)		o	0	OBB-A2401	135,-
Binocular tube	30° inclined Interpupillary distance: 52 – 75 mm With diopter adjustment (one-sided) (Only in combination with tube OBB-A2409)		0	0	OBB-A2407	160,-
	30° inclined Interpupillary distance: 52 – 75 mm Light distribution: 80:20 With diopter adjustment (one-sided)		•	•	OBB-A2402	205,-
Trinocular tube	30° inclined Interpupillary distance: 52 - 75 mm Light distribution: 80:20 With diopter adjustment (one-sided) (Only in combination with tube OBB-A2409)		o	o	OBB-A2408	245,-
Nosepiece	Quintuple		•	•		
	Stage size: WxD 180x155 mm, Travel: 80x50 mm	Right handed v.	•			
Mechanical stage	Coaxial coarse and fine focusing knobs	Left handed v.		•		
	Drop specimen holder (Ø 110)		•	•	OBB-A2425	65,-
	Specimen holder (Clip)		•	•	OBB-A2426	50,-
F	Stage size: WxD 240x180 mm		0	0	OBB-A2424	150,-
Fixed stage	Drop specimen holder (Ø 110)		0	0	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 slide		•	•	OBB-A2432	105,-
	Infinity plan achromatic PH-objective 10x		0	0	OBB-A2418	190,-
Phase contrast unit	Infinity plan achromatic PH-objective 20x		•	•	OBB-A2419	260,-
	Infinity plan achromatic PH-objective 40x		0	0	OBB-A2420	360,-
	Centering telescope		•	•	OBB-A2405	95,-
	0,5x		0	0	OBB-A2437	85,-
C-Mount	1x		0	0	OBB-A2438	55,-
	0,25x		0	0	OBB-A2439	115,-
	Filter holder		•	•	OBB-A1357	55,-
	Blue (Ø 34 mm)		•	•	OBB-A2434	35,-
Filter	Green (Ø 34 mm)		•	•	OBB-A2435	35,-
	Yellow (Ø 34 mm)		•	•	OBB-A2436	35,-

^{• =} Standard configuration

o = Option





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.



















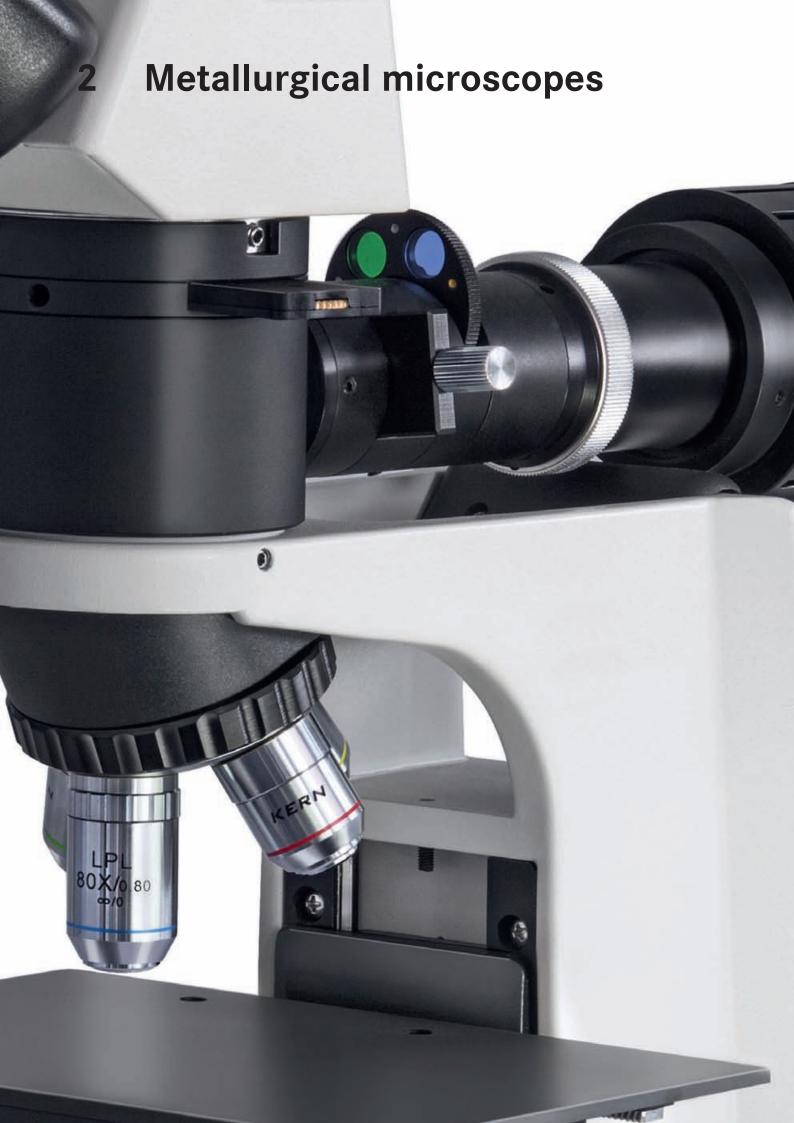
Mod	lel		Standard configuration							
KER	N	Optical system	Tube		Illumination	ex v	works €			
ОСО	255	Infinity	Binocular		6V / 30W Halogen (transmitting)	49	30,-			
OCO	256	Infinity	Binocular		6V / 30W Halogen (transmitting)	51	35,-			

Inverted microscope KERN OCO-2

Model outfit	odel outfit		I KERN	Order number	Price excl. of VAT
		OCO 255	OCO 256	_	ex works €
	HWF 10x/Ø 20 mm	••	••	OBB-A2503	55,-
	WF 16x/Ø 13 mm	00	00	OBB-A2507	35,-
Eyepieces	HWF 10x/Ø 20 mm (reticule 0,1 mm)	0	0	OBB-A2410	110,-
	HWF 10x/Ø 22 mm	00	00	OBB-A2409	70,-
	4x/0,13	0	0	OBB-A2413	100,-
nfinity	10x/0,25	•	•	OBB-A2414	160,-
Plan achromatic objectives	20x/0,40	•	•	OBB-A2415	225,-
for long working distance)	40x/0,60	•	•	OBB-A2416	325,-
	60x/0,70	0	0	OBB-A2417	425,-
Binocular tube	 45° inclined Interpupillary distance: 52 – 75 mm With diopter adjustment (one-sided) 	•	•	OBB-A2501	270,-
omocular tube	 45° inclined Interpupillary distance: 48 – 75 mm With diopter adjustment (one-sided) 	o	0	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,-
	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,-
ixed stage	Specimen holder for 96-hole microtitre plate	0		OBB-A2521	100,-
	Specimen holder for 60 mm culture dish	0		OBB-A2560	75,-
	Specimen holder for 65 mm culture dish	0		OBB-A2561	75,-
	Specimen holder for 30 mm culture dish	0		OBB-A2562	75,-
Condenser	Abbe N.A. 0,3 (aperture diaphragm) LWD 72 mm	•	•		
llumination	6V / 30W Halogen spare bulb (transmitting)	•	•	OBB-A2440	55,-
	Phase contrast slide	•	•	OBB-A2432	105,-
	Infinity plan achromatic PH-objective 10x	0	0	OBB-A2418	190,-
Phase contrast unit	Infinity plan achromatic PH-objective 20x	•	•	OBB-A2419	260,-
	Infinity plan achromatic PH-objective 40x	0	0	OBB-A2420	360,-
	Centering telescope	•	•	OBB-A2506	95,-
	0,5x	•	•	OBB-A2531	85,-
C-Mount	0,25x	0	0	OBB-A2532	115,-
	Filter holder	•	•	OBB-A1357	55,-
	Blue (Ø 34 mm)	•	•	OBB-A2434	35,-
Filter	Green (Ø 34 mm)	•	•	OBB-A2435	35,-
	Yellow (Ø 34 mm)	•	•	OBB-A2436	35,-

• = Standard configuration

o = Option







Illumination unit with filter disc



Stage and objectives

LAB LINE MET

The metallurgical model for the experienced user

Features

- The KERN OKM-1 is an excellent and stable metallurgical reflecting light microscope.
- It is suitable for all common routine applications, producing excellent images thanks to its strong 30 W halogen illumination.
- These microscopes are equipped with infinity corrected, plan achromatic objectives as standard.
- A trinocular head is optionally 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 lenses, LWD objectives for long working distances, plus a complete polarisation kit and more.
- 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
- Objectives: 5x / 10x and LWD 20x / 40x
- Overall dimensions WxDxH 240x170x400 mm
- Net weight basic configuration approx. 8 kg

Please find detailed information in the following charts.



















Model		Standard configuration						
KERN	Optical system	Tube	Illumination	ex works €				
OKM 172	Infinity	Binocular	6V / 30W Halogen (reflecting)	1950,-				

Model outfit		Model KERN	Order number	Price excl. of VAT	
		OKM 172		ex works €	
	WF 10x/Ø 18 mm	•	OBB-A1347	55,-	
Eyepieces	WF 10x / Ø 18 mm (reticule 0,1 mm) (non-adjustable)	•	OBB-A1349	80,-	
	WF 5x / Ø 20 mm	0	OBB-A1355	70,-	
	WF 12,5x / Ø 14 mm	0	OBB-A1353	85,-	
	WF 16x/Ø 13 mm	0	OBB-A1354	55,-	
	5x / 0,11 W.D. 12,10 mm	•	OBB-A1268	110,-	
Infinity Plan achromatic objectives (no cover glass)	10x / 0,25 W.D. 4,75 mm	•	OBB-A1244	190,-	
	20x / 0,40 (spring) W.D. 2,14 mm	0	OBB-A1251	260,-	
	40x / 0,65 (spring) W.D. 0,45 mm	0	OBB-A1258	280,-	
Infinity	20x / 0,40 (spring) W.D. 8,35 mm	•	OBB-A1252	290,-	
Plan achromatic objectives (no cover glass) for long working distance	40x / 0,65 (spring) W.D. 3,90 mm	•	OBB-A1259	415,-	
	50x / 0,70 (spring) W.D. 1,95 mm	0	OBB-A1266	460,-	
	80x / 0,80 (spring) W.D. 0,85 mm	0	OBB-A1271	510,-	
Binocular tube	Siedentopf, 30° inclined, 360° rotatable Interpupillary distance: 50 - 75 mm With diopter adjustment (one-sided)	•	OBB-A1130	260,-	
Trinocular tube	Siedentopf, 30° inclined, 360° rotatable Interpupillary distance: 50 – 75 mm Light distribution: 80:20 With diopter adjustment (one-sided)	0	OBB-A1346	370,-	
Nosepiece	Quadplex	•			
Mechanical stage	Stage size: WxD 200x140 mm Travel: 76x52 mm Coaxial coarse and fine focusing knobs	•			
Illumination	6V / 30W Halogen spare bulb (reflecting)	•	OBB-A1372	30,-	
Filter unit	5-filter unit (Blue, Green, Amber, Grey, Empty)	•			
Polarising unit	Analyser / Polariser	•			
C Married	1x	0	OBB-A1142	115,-	
C-Mount	0,47x (focus adjustable)	0	OBB-A1135	160,-	

Standard configuration

O = Option





Stage OKN



Stage OKO



Illumination unit

PROFESSIONAL LINE MET

The metallurgical model for the flexible and professional user

Features

- The KERN OKN-1 and OKO-1 microscope series are metallurgical 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
- · Additional transmitted light halogen illumination is available for some models.
- These microscope models are equipped with infinity corrected, plan achromatic objectives as standard.
- · A nosepiece for up to 5 objectives, a large stage and a complete polarisation kit are standard on the OKN and OKO models.

- The transmitted light models equipped with Koehler illumination have an additional centerable and height adjustable Abbe condenser and an adjustable aperture diaphragm.
- These binocular microscopes are equipped with diopter adjustment and are available with a variety of eyepieces.
- · A trinocular head is optionally available, allowing a camera to be fitted.
- · The following optional accessories are available: A variety of eyepieces, LWD objectives for long working distances 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: 3x WF 10x18 mm
- Objectives: 5x / 10x / (100x) and LWD 20x/40x
- · Overall dimensions WxDxH 306x200x448 mm
- Net weight basic configuration approx. 12 kg

Please find detailed information in the following charts.



























Model		Standard configuration						
KERN	Optical system	Tube	Illumination	ex works €				
OKN 175	Infinity	Binocular	12V / 50W Halogen (reflecting)	2380,-				
OKO 176	Infinity	Binocular	12V / 50W Halogen (reflecting) + 6V / 20W (transmitting)	2960,-				
OKN 177	Infinity	Binocular	12V / 100W Halogen (reflecting)	2600,-				
OKO 178	Infinity	Binocular	12V / 100W Halogen (reflecting) + 6V / 20W (transmitting)	3180,-				

Model outfit			Mode	KERN		Order number	Price excl. of VAT
		OKN 175	ОКО 176	OKN 177	OKO 178	-	ex works €
	WF 10x/Ø 18 mm	••	••	••	••	OBB-A1347	55,-
F	WF 10x / Ø 18 mm (reticule 0,1 mm) (adjustable)	•	•	•	•	OBB-A1350	100,-
Eyepieces	WF 5x / Ø 20 mm	00	00	00	00	OBB-A1355	70,-
	WF12,5x/Ø 14 mm	00	00	00	00	OBB-A1353	85,-
	5x / 0,11 W.D. 6,73 mm	•	•	•	•	OBB-A1268	110,-
La Carte	10x / 0,25 W.D. 4,19 mm	•	•	•	•	OBB-A1244	190,-
Infinity Plan objectives	20x / 0,40 (spring) W.D. 2,14 mm	0	0	0	0	OBB-A1251	260,-
(no cover glass)	40x / 0,65 (spring) W.D. 0,45 mm	0	0	0	0	OBB-A1258	280,-
	100x / 1,25 (oil) (spring) W.D. 0,12 mm	0	•	0	•	OBB-A1241	320,-
Infinity	20x / 0,40 (spring) W.D. 8,35 mm	•	•	•	•	OBB-A1252	290,-
Plan objectives Infinity	40x / 0,65 (spring) W.D. 3,90 mm	•	•	•	•	OBB-A1259	415,-
(no cover glass) for long working	50x / 0,70 (spring) W.D. 1,95 mm	0	0	0	0	OBB-A1266	460,-
distance	80x / 0,80 (spring) W.D. 0,85 mm	0	0	0	0	OBB-A1271	510,-
Binocular tube	Siedentopf, 30° inclined, 360° rotatable Interpupillary distance: 50 – 75 mm With diopter adjustment (both-sided)	•	•	•	•	OBB-A1125	260,-
Trinocular tube	Siedentopf, 30°inclined, 360° rotatable Interpupillary distance: 50 – 75mm Light distribution: 100:0 With diopter adjustment (both-sided)	0	0	0	0	OBB-A1344	420,-
Nosepiece	Quintuple	•	•	•	•		
Mechanical stage for reflection	Stage size: WxD 200x140 mm Travel: 78x55 mm Stage fast lowering unit Stage Up-Down moving range: max. 50 mm	•		•			
Mechanical stage for transmission	Stage size: WxD 175x145 mm Travel: 78x55 mm Coaxial coarse and fine focusing knobs		•		•		
Stage plate	Plate for sample placement	•	•	•	•		
Glass plate	Glass plate		0		0	OBB-A1378	40,-
Clip	Clip		•		•	OBB-A1134	55,-
Stage micrometer	Specimen slide with scale reticule 0,01 mm	0	0	0	0	OBB-A1224	70,-
Polarising unit	Reflective light unit with polarising / Analyser slide	•	•	•	•		
Condenser	Abbe N.A. 1,25 (aperture diaphragm)		•		•	OBB-A1380	90,-
	6V / 20W Halogen spare bulb (transmitting)		•		•	OBB-A1370	30,-
Illumination	12V / 50W Halogen spare bulb (reflecting)	•	•			OBB-A1207	35,-
	12V / 100W Halogen spare bulb (reflecting)			•	•	OBB-A1377	35,-
Field diaphragm	Field diaphragm		•		•		
	Blue	0	•	0	•	OBB-A1176	30,-
Filter	Green	0	0	0	0	OBB-A1192	30,-
	Yellow	0	0	0	0	OBB-A1202	30,-
C-Mount	1x	0	0	0	0	OBB-A1361	120,-
O-IVIOUIIL	0,57x (focus adjustable)	0	0	0	0	OBB-A1136	160,-

Standard configuration

o = Option





EDUCATIONAL LINE MET

The robust inverted metallurgical model for your training establishment or workshops

Features

- The KERN OLE-1 and OLF-1 are very easy to use, stable, inverted metallurgical microscopes.
- They are suitable for all common routine applications in training establishments or workshops and produce impressive images.
- Available as mono- or binocular models with a variety of eyepieces.
- These microscopes are equipped with plan achromatic objectives as standard.
- A nosepiece for up to 4 objectives and a large stage are also provided as standard.
- The following optional accessories are available: LWD-objectives for a long working distance as well as various stage inlays and more.
- A powerful 3W LED is available as illumination source.
- 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: 10x/20x/40x
- Overall dimensions WxDxH 240x170x311 mm
- Net weight basic configuration approx. 7 kg

Please find detailed information in the following charts.















Model		Standard configuration						
KERN	Optical system	Tube	Illumination	ex works €				
OLE 161	Achromatic	Monocular	3W LED (reflecting)	1360,-				
OLF 162	Achromatic	Binocular	3W LED (reflecting)	1460,-				

Metallurgical inverted microscopes KERN OLE-1 · OLF-1

Model outfit		Mode	I KERN	Order number	Price excl. of VAT	
		OLE 161	OLF 162		ex works €	
	WF 10x/Ø 18 mm	•	••	OBB-A1347	55,-	
Eyepieces Plan achromatic objectives Infinity Plan achromatic objectives for LWD Monocular tube Binocular tube Nosepiece Mechanical stage Extra stage plate Illumination Filter	WF 12,5x / Ø14 mm	0	00	OBB-A1353	85,-	
	WF 16x/Ø 13 mm	0	00	OBB-A1354	55,-	
	WF 5x / Ø 20 mm	0	00	OBB-A1355	70,-	
	WF 10x/Ø 18 mm (reticule 0,1 mm) (non-adjustable)	0	00	OBB-A1349	80,-	
	Plan 10x / 0,25	•	•	OBB-A1246	140,-	
objectives	Plan 20x / 0,35 (spring)	•	•	OBB-A1253	220,-	
	Plan 40x / 0,65 (spring)	•	•	OBB-A1261	220,-	
	Plan 100x / 1,25 (spring) (oil)	0	0	OBB-A1242	240,-	
	Plan 4x / 0,10	0	0	OBB-A1265	120,-	
Plan achromatic objectives	PL L 40x / 0,60 W.D. 3,64 mm	0	0	OBB-A1262	420,-	
	PL L 50x / 0,70 W.D. 3,01 mm	0	0	OBB-A1267	420,-	
	PL L 80x / 0,80 (spring) W.D. 1,08 mm	0	0	OBB-A1272	470,-	
Monocular tube	45° inclined	•		OBB-A1228	105,-	
Binocular tube	45° inclined With diopter adjustment (one-sided)		•	OBB-A1128	220,-	
Nosepiece	Quadplex	•	•			
Mechanical stage	Stage size: WxD 180x180 mm Travel: 50x40 mm	•	•			
	1 (opening Ø 10 mm)	•	•	OBB-A1322	60,-	
Extra stage plate	2 (opening Ø 20 mm)	•	•	OBB-A1323	60,-	
	3 (opening Ø 40 mm)	0	0	OBB-A1324	60,-	
Illumination	3W LED illumination system (reflecting)	•	•			
Filter	Blue	•	•	OBB-A1174	30,-	
	Green	•	•	OBB-A1190	30,-	
	Grey	•	•	OBB-A1184	30,-	
Stage micrometer	Specimen slide with scale 0,01 mm	0	0	OBB-A1224	70,-	

^{• =} Standard configuration









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.















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

Polarising microscope KERN OPE-1

Model outfit		Model KERN	Order number	Price excl. of VAT
		OPE 118		ex works €
Evenieses	WF 10x / Ø 18 mm (reticule 0,1mm) (non-adjustable)	•	OBB-A1349	80,-
Eyepieces	WF 16x/Ø 13 mm	0	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	0	OBB-A1279	95,-
	60x / 0,80 (spring)	0	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,-
λ + 1/4 λ Slip	λ Slip and ¼ λ Slip (combination)	•	OBB-A1316	135,-
Quartz wedge	I - IV class	0	OBB-A1320	235,-
Revolving round stage	360° rotatable, division 1°, Vernier division 6', lockable	•		
Polarising attached mechanical stage	Polarising attached mechanical stage	٥	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

o = Option









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



Centrable 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
- · 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, nonstress, infinity corrected, plan achromatic objectives, \(\lambda \) slips, a Bertrand lens and a quartz wedge as standard, plus numerous additional valuable features, depending on
- 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.























Model		:	Standard configuration	Price excl. of VAT
KERN	Optical system Tube Illumination			
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
		OPM 181		ex works €
Formities	WF10 / Ø 20 mm	•	OBB-A1351	95,-
Eyepieces	WF 10x / Ø 20 mm (reticule 0,1 mm) (adjustable)	•	OBB-A1352	150,-
	4x/0,10	•	OBB-A1294	110,-
Non-stress Infinity plan objectives	10x/0,25	•	OBB-A1289	200,-
	20x / 0,40 (spring)	•	OBB-A1290	265,-
objectives	40x / 0,65 (spring)	•	OBB-A1292	315,-
Binocular tube	60x / 0,80 (spring)	0	OBB-A1296	375,-
Binocular tube	Siedentopf, 30°inclined, 360° rotatable Interpupillary distance: 50 – 75 mm With diopter adjustment (one-sided)	•	OBB-A1125	260,-
Trinocular tube	Siedentopf, 30° inclined, 360° rotatable Interpupillary distance: 50 – 75 mm Light distribution: 100:0 With diopter adjustment (one-sided)	0	OBB-A1344	420,-
Professional dedicated polarising binocular head Professional dedicated polarising trinocular head To keep the reticular cross in the right-hand eyepiece in the same position, independent of the adjustment of the tube.		0	OBB-A1209	415,-
		0	OBB-A1210	550,-
Nosepiece	Quintuple	•		
Analyser unit with scale	360° rotatable, lockable	•		
Bertrand lens	Built-in, center-adjustable	•	OBB-A1121	300,-
λ + 1/4 λ Slip	λ Slip and ¼ λ 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	0	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,-
	Blue	•	OBB-A1172	30,-
Eiltor	Amber	0	OBB-A1165	30,-
Filter	Green	0	OBB-A1189	30,-
	Neutral	0	OBB-A1198	30,-
C-Mount	1x	0	OBB-A1140	105,-
O-IVIOUIIL	0,57x (focus adjustable)	0	OBB-A1136	160,-

^{• =} Standard configuration

o = Option

Model outfit			Mode	KERN		Order number	Price excl. of VAT
		OPN 182	OPO 183	OPN 184	OPO 185	-	ex works €
	WF 10x / 18 mm	•	•	•	•	OBB-A1347	55,-
Eyepieces	WF 10x / 18 mm (reticule 0,1 mm) (adjustable)	•	•	•	•	OBB-A1350	100,-
	4x / 0,10		•	•	•	OBB-A1294	110,-
	10x/0,25	•	•	•	•	OBB-A1289	200,-
Non-stress	20x / 0,40 (spring)		•	•	•	OBB-A1290	265,-
Infinity Plan objectives	40x / 0,65 (spring)		•		•	OBB-A1292	315,-
Plan objectives	40x / 0,65 (spring) (no cover glass)	•	0	•	0	OBB-A1288	390,-
	60x / 0,80 (spring)	0	•	0	•	OBB-A1296	375,-
	LWD 20x / 0,40 (spring) W.D. 8,35 mm	0	0	0	0	OBB-A1291	345,-
Infinity Plan objectives	LWD 40x / 0,65 (spring) W.D. 3,90 mm	0	0	0	0	OBB-A1293	390,-
Plan objectives (no cover glass) for LWD	LWD 50x / 0,70 (spring) W.D. 1,95 mm	0	0	0	0	OBB-A1295	415,-
	LWD 80x / 0,80 (spring) W.D. 0,85 mm	0	0	0	0	OBB-A1297	510,-
Binocular tube	Siedentopf, 30°inclined, 360° rotatable Interpupillary distance: 50 – 75 mm With diopter adjustment (one-sided)	•	•	•	•	OBB-A1125	260,-
Trinocular tube	 Siedentopf, 30°inclined, 360° rotatable Interpupillary distance: 50 – 75mm Light distribution: 100:0 With diopter adjustment (one-sided) 		0	0	0	OBB-A1344	420,-
Professional dedicated polarising binocular head	cular head To keep the reticular cross in the right-hand eyepiece in the same position, independent of the adjustment of the tube.		0	0	0	OBB-A1209	415,-
Professional dedicated polarising trinocular head			0	0	0	OBB-A1210	550,-
Nosepiece	Quintuple	•	•	•	•		
Analyser unit with scale	360° rotatable, lockable	•	•	•	•		
Bertrand lens	Built-in, center-adjustable	•	•	•	•	OBB-A1121	300,-
λ + 1/4 λ Slip	λ Slip und ¼ λ 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	0	0	0	0	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,-
	Blue	•	•	•	•	OBB-A1172	30,-
Filter	Amber	0	0	0	0	OBB-A1165	30,-
i iitel	Green	0	0	0	0	OBB-A1189	30,-
	Neutral	0	0	0	0	OBB-A1198	30,-
Reflecting	12V / 50W Halogen	•	•	0	0	OBB-A1207	35,-
polarising unit replacement bulb	12V / 100W Halogen	0	0	•	•	OBB-A1377	35,-
C.Marri	1x	0	0	0	0	OBB-A1140	105,-
C-Mount	0,57x (focus adjustable)	0	0	0	0	OBB-A1136	160,-

^{• =} Standard configuration

o = Option

Stereomicroscopes Stereo, Stereo Zoom, Coaxial and Gem microscopes 4







With white stage plate



With black stage plate

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.

STANDARI

















Model				Standard c	onfiguration		Price
	Tube Eyepiece Field of view Objective Stand Illumination				excl. of VAT ex works		
KERN			mm				€
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		
WE 40	Total magnification	10x	20x	30x	40x		
WF 10x	Field of view mm	Ø 20	Ø 10	Ø 6,7	Ø 5		
WF 15x	Total magnification	15x	30x	45x	60x		
WF 15X	Field of view mm	Ø 15	Ø 7,5	Ø 5	Ø 3,7		
WE 20	Total magnification	20x	40x	60x	80x		
WF 20x	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
		OSE 410	OSE 411	OSE 413	OSE 414	OSE 416	OSE 417		ex works €
	WF 5x / Ø 16,2 mm	00	00	00	00	00	00	OZB-A4101	50,-
Eyepieces	WF 10x/Ø 20 mm	••	••	••	••	••	••	OZB-A4102	45,-
	WF 15x/Ø 15 mm		00	00	00	00	00	OZB-A4103	45,-
	WF 20x / Ø 10 mm	00	00	00	00	00	00	OZB-A4104	50,-
	Pillar style, without illumination	•	•						
Stands	Pillar style, with 0,21W LED illumination (incident)			•	•				
	Pillar style, with 0,21W LED illumination (transmission + incident)					•	•		
	Black-white / Ø 59,5 mm	•	•	•	•			OZB-A4816	30,-
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 ca	italogu	e from	page (58 and	on our	website www.kern-	sohn.com

^{• =} Standard configuration

o = 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.



















Model				Standard co	onfiguration		Price
	Tube	Eyepiece	Field of view	Objective	Stand	Illumination	excl. of VAT ex works
KERN			mm				€
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						
\\/ F	Total magnification	5x	10x	15x	20x						
WF 5x	Field of view mm	Ø 20	Ø 10	Ø 6,7	Ø 5						
WE 10	Total magnification	10x	20x	30x	40x						
WF 10x	Field of view mm	Ø 20	Ø 10	Ø 6,7	Ø 5						
WE 45	Total magnification	15x	30x	45x	60x						
WF 15x	Field of view mm	Ø 15	Ø 7,5	Ø 5	Ø 3,7						
WE 00:	Total magnification	20x	40x	60x	80x						
WF 20x	Field of view mm	Ø 10	Ø 6,5	Ø 4,3	Ø 3,2						
Working distant	ce	100 mm	100 mm	100 mm	100 mm						

Model outfit			Mode	KERN		Order number	Price excl. of VAT
		OSF 430	OSF 431	OSF 434	OSF 435		ex works €
	WF 5x / Ø 16,2 mm	00	00	00	00	OZB-A4101	50,-
Eyepieces	WF 10x / Ø 20 mm		••	••	••	OZB-A4102	45,-
	WF 15x / Ø 15 mm		00	00	00	OZB-A4103	45,-
	WF 20x / Ø 10 mm	00	00	00	00	OZB-A4104	50,-
Stands	Arm curved, with LED illumination (0,21W transmitting + 1W incident)	•	•				
Stands	Arm curved, incl. fine adjustment, with LED illumination (0,21W transmitting + 1W incident)			•	•		
Chara plata	Frosted glass / Ø 74,5 mm	•	•	•	•	OZB-A4813	30,-
Stage plate	Black-white / Ø 74,5 mm		•	•	•	OZB-A4814	30,-
External illumination	Please find the information about external illumination units i	n the catal	ogue from	page 68 a	and on our	website www.kern-	sohn.com

= Standard configuration







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.



















Me	odel				Standard co	onfiguration		Price excl. of VAT
KF	ERN	Tube	Eyepiece	Field of view	Objective	Stand	tand Illumination	
	SF 438	Binocular	WF 10x Ø 20 mm	Ø 20	1x / 2x / 3x	Arm curved	1W LED (incident); 0,35W LED (transmitting)	325,-
05	SF 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		S	pecifications - Objective	s	
	Magnification	1x	2x	3x	4x
\A/E	Total magnification	5x	10x	15x	20x
WF 5x	Field of view mm	Ø 20	Ø 10	Ø 6,7	Ø 5
WE 40	Total magnification	10x	20x	30x	40x
WF 10x	Field of view mm	Ø 20	Ø 10	Ø 6,7	Ø 5
WE 45	Total magnification	15x	30x	45x	60x
WF 15x	Field of view mm	Ø 15	Ø 7,5	Ø 5	Ø 3,7
WE 00-	Total magnification	20x	40x	60x	80x
WF 20x	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		Mode	I KERN	Order number	Price excl. of VAT
		OSF 438	OSF 439		ex works €
	WF 5x / Ø 16,2 mm	00	00	OZB-A4101	50,-
Eyepieces	WF 10x / Ø 20 mm	••	••	OZB-A4102	45,-
	WF 15x / Ø 15 mm	00	00	OZB-A4103	45,-
	WF 20x / Ø 10 mm	00	00	OZB-A4104	50,-
Stands	Arm curved, incl. handle, with LED illumination (0,35W transmitting + 1W incident)	•	•		
01	Frosted glass / Ø 59,5 mm	•	•	OZB-A4815	30,-
Stage plate	Black-white / Ø 59,5 mm	•	•	OZB-A4816	30,-
External illumination	Please find the information about external illumination ur	its in the catalogue from	n page 68 and on ou	ır website www.kern-	-sohn.com

ullet = Standard configuration

o = Option





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.



















	OPTION
i	
	iiiii
	SCALE
	SCALE

Model				Standard c	onfiguration		Price
	Tube	Eyepiece	Field of view	Objective	Stand	Illumination	excl. of VAT ex works
KERN			mm				€
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							
11014/5 40	Total magnification	10x	20x	30x	40x							
HSWF 10x	Field of view mm	Ø 23	Ø 11,5	Ø 7,67	Ø 5,75							
CME 15	Total magnification	15x	30x	45x	60x							
SWF 15x	Field of view mm	Ø 17	Ø 8,5	Ø 5,67	Ø 4,25							
0)4/5 00	Total magnification	20x	40x	60x	80x							
SWF 20x	Field of view mm	Ø 14	Ø 7	Ø 4,67	Ø 3,5							
0)4/5 00	Total magnification	30x	60x	90x	120x							
SWF 30x	Field of view mm	Ø 9	Ø 4,5	Ø 3	Ø 2,25							
Working distant	ce	105 mm	105 mm	105 mm	105 mm							

Model outfit				Model	KERN			Order number	Price excl. of VAT
		OSF 522	OSF 523	OSF 524	OSF 525	OSF 526	OSF 527		ex works €
	HSWF 10x / Ø 23 mm	••	••	••	••	••	••	OZB-A5503	60,-
	SWF 15x/Ø 17 mm	00	00	00	00	00	00	OZB-A5504	60,-
	SWF 20x/Ø 14 mm	00	00	00	00	00	00	OZB-A5505	70,-
Eyepieces	SWF 30x / Ø 9 mm	00	00	00	00	00	00	OZB-A5506	85,-
	HSWF 10x / Ø 23 mm (reticule 0,1 mm)	0	0	0	0	0	0	OZB-A5512	95,-
	SWF 15x/Ø 17 mm (reticule 0,05 mm)	0	0	0	0	0	0	OZB-A5513	110,-
	SWF 20x/Ø 14 mm (reticule 0,05 mm)	0	0	0	0	0	0	OZB-A5514	110,-
Darkfield attachment	Darkfield attachment	0	0	0	0	0	0	OBB-A4601	85,-
Object clamp	Object clamp	0	0	0	0	0	0	OBB-A6205	45,-
	Pillar style, without illumination	•		•		•			
Stands	Pillar style, with 3W LED illumination (transmitting + incident)		•		•		•		
	Please find more stands in the catalogue on page 64 and on c	ur web	site w	vw.ker	n-sohn	.com			
	Frosted glass / Ø 94,5 mm		•		•		•	OZB-A5192	30,-
Stage plate	Black-white / Ø 94,5 mm	•	•	•	•	•	•	OZB-A5191	30,-
	Glass / Ø 94,5 mm		0		0		0	OZB-A5190	30,-
Manhantadah	Stage size: WxD 188x160 mm, Travel: 76x65 mm, for transmitting and incident illumination	0	0	0	0	0	0	OZB-A5781	165,-
Mechanical stage	Stage size: WxD 180x175 mm; Travel: 100x86 mm, for incident illumination only	0	0	0	0	0	0	OZB-A5782	240,-
External illumination	Please find the information about external illumination units in	the ca	italogu	e from	page (68 and	on our	website www.kern-	sohn.com

ullet = Standard configuration

o = Option



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.

















	3 YEARS	
AY	WARRANTY	

Model		Standard configuration							
	Tube Eyepiece Field of view Objective Stand Illumination				excl. of VAT ex works				
KERN			mm	Zoom			€		
OZL 441	Trinocluar	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 441			Specifications - Obj	jectives					
Eyepiece	Magnification	Standard		Auxiliary objectives					
		1,0x	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			
WF 5X	Field of view mm	Ø 20 - 5	Ø 40 – 11	Ø 25 - 6,5	Ø 13 - 3,5	Ø 10 - 2,5			
WE 10	Total magnification	10x - 40x	5x - 20x	7,5x - 30x	15x - 60x	20x - 80x			
WF 10x	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			
WF 15X	Field of view mm	Ø 15,5 – 4	Ø 36 - 8,5	Ø 21 – 5	Ø 10,5 – 2,5	Ø 8 – 2			
WE OO	Total magnification	20x - 80x	10x - 40x	15x - 60x	30x - 120x	40x - 160x			
WF 20x	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 distant	ce	91 mm	170 mm	100 mm	42 mm	28 mm			

OZL 445		S	pecifications - Obje	ctives					
Eyepiece	Magnification	Standard		Auxiliary objectives					
		1,0x	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			
WF 5X	Field of view mm	Ø 26 - 6	Ø 60 – 13	Ø 32 – 7	Ø 16 - 4	Ø 12,5 - 3			
1045 40	Total magnification	7,5x - 36x	3,75x - 18x	5,625x - 27x	11,25x - 54x	15x - 72x			
HWF 10x	Field of view mm	Ø 28 - 6	Ø 63 – 14	Ø 35 – 8	Ø 18 – 4	Ø14 – 3			
WE 15	Total magnification	11,25x - 54x	5,625x - 27x	8,44x - 40,5x	16,875x - 81x	22,5x - 108x			
WF 15x	Field of view mm	Ø 19 - 4,5	Ø 43 – 9,5	Ø 24 – 5,5	Ø 12 - 3	Ø 9,5 - 2			
WE 00	Total magnification	15x - 72x	7,5x - 36x	56,25x - 54x	22,5x - 108x	30x - 144x			
WF 20x	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			

Model outfit		Mode	KERN	Order number	Price excl. of VAT
		OZL 441	OZL 445	-	ex works €
	WF 5x / Ø 16,2 mm	00	00	OZB-A4101	50,-
	WF 10x/Ø 22 mm	••		OZB-A4105	50,-
Eyepieces	HWF 10x/Ø 21,5 mm		••	OZB-A4106	50,-
	WF 15x/Ø 15 mm	00	00	OZB-A4103	45,-
	WF 20x/Ø 10 mm	00	00	OZB-A4104	50,-
	0,5x	0	0	OZB-A4201	75,-
A	0,75x	0	0	OZB-A4202	75,-
Auxiliary objectives	1,5x	0	0	OZB-A4204	75,-
	2,0x	0	0	OZB-A4205	80,-
	1x adjustable focus	0		OZB-A4809	65,-
C-Mount	0,3x adjustable focus	0		OZB-A4810	85,-
	0,5x adjustable focus	0		OZB-A4811	100,-
Stands	Pillar style, with LED illumination (0,35W transmitting + 1W incident)	•	•		
0	Frosted glass / Ø 95 mm	•	•	OZB-A4805	30,-
Stage plate	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 ou	r website www.kern-	sohn.com

• = Standard configuration

O = Option





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.

STANDARI





















_								
	Model				Standard co	onfiguration		Price
		Tube	Eyepiece	Field of view	Objective	Stand	Illumination	excl. of VAT ex works
	KERN			mm	Zoom			€
	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		Spec	ifications - Objectives		
	Magnification	Standard		Auxiliary objective	s
		1,0x	0,5x	1,5x	2,0x
HWF 5x	Total magnification	3,75x - 25x	1,875x - 12,5x	5,625x - 37,5x	7,5x - 50x
HWF 3X	Field of view mm	Ø 31 - 4,6	Ø 61,3 - 9,2	Ø 22 - 3,3	Ø 16 - 2,5
110ME 40	Total magnification	7,5x - 50x	3,75x - 25x	11,25x - 75x	15x - 100x
ISWF 10x	Field of view mm	Ø 33 – 5	Ø 65 – 10	Ø 22 - 3,3	Ø 16 - 2,5
UME 15	Total magnification	11,25x - 75x	5,625x - 37,5x	16,875x - 112,5x	22,5x - 150x
HWF 15x	Field of view mm	Ø 24 - 4,2	Ø 48 - 8,5	Ø 16 - 2,8	Ø 12 – 2
11014/5 00:	Total magnification	15x - 100x	7,5x - 50x	22,5x - 150x	30x - 200x
HSWF 20x	Field of view mm	Ø 20 - 3,5	Ø 40 – 7	Ø 13,3 - 2,3	Ø 10 - 1,8
UME 25	Total magnification	18,75x - 125x	9,375x - 62,5x	28,125x - 187,5x	37,5x - 255x
HWF 25x	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 distanc	e	113 mm	220 mm	50 mm	35 mm

Model outfit		Mode	I KERN	Order number	Price excl. of VAT
		OZL 451	OZL 453		ex works €
	HWF 5x / Ø 23,2 mm	00	00	OZB-A4112	55,-
	HSWF 10x/Ø 23 mm	••	••	OZB-A4118	55,-
Eyepieces	HWF 15x/Ø 15 mm	00	00	OZB-A4119	55,-
	HSWF 20x / Ø 14,5 mm	00	00	OZB-A4120	70,-
	HWF 25x / Ø 11,7 mm	00	00	OZB-A4121	70,-
	0,5x	0	0	OZB-A4201	75,-
Auxiliary objectives	1,5x	0	0	OZB-A4204	75,-
	2,0x	0	0	OZB-A4205	80,-
Stands	Pillar style, with 12V / 10W Halogen Illumination (transmitting + incident)	•			
	Pillar style, without illumination		•		
0	Frosted glass / Ø 95 mm	•		OZB-A4805	30,-
Stage plate	Black-white / Ø 95 mm	•	•	OZB-A4806	30,-
Mechanical stage	Stage size: WxD 180x155 mm, Travel: 75x55 mm, for transmitting and incident illumination	0	0	OZB-A4605	215,-
External illumination	Please find the information about external illumination uni	ts in the catalogue from	page 68 and on o	ır website www.kern-	sohn.com

ullet = Standard configuration

o = Option





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.



















Model				Standard c	onfiguration		Price
	Tube	Eyepiece	Field of view	Objective	Stand	Illumination	excl. of VAT ex works
KERN			mm	Zoom			€
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		Speci	fications - Objectives		
	Magnification	Standard		Auxiliary objective	es
		1,0x	0,5x	1,5x	2,0x
HWF 5x	Total magnification	3,75x - 25x	1,875x - 12,5x	5,625x - 37,5x	7,5x - 50x
HWF 3X	Field of view mm	Ø 31 - 4,6	Ø 61,3 - 9,2	Ø 22 - 3,3	Ø 16 - 2,5
LICWE 10.	Total magnification	7,5x - 50x	3,75x - 25x	11,25x - 75x	15x - 100x
HSWF 10x	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
HWF 15X	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
HSWF ZUX	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
UML 72X	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	Working distance		220 mm	50 mm	35 mm

Model outfit		Model KERN OZL 456	Order number	Price excl. of VAT ex works €
	HWF 5x / Ø 23,2 mm	00	OZB-A4112	55,-
	HSWF 10x/Ø 23 mm	••	OZB-A4118	55,-
Eyepieces	HWF 15x/Ø 15 mm	00	OZB-A4119	55,-
	HSWF 20x / Ø 14,5 mm	00	OZB-A4120	70,-
	HWF 25x / Ø 11,7 mm	00	OZB-A4121	70,-
	0,5x	0	OZB-A4201	75,-
Auxiliary objectives	1,5x	0	OZB-A4204	75,-
	2,0x	0	OZB-A4205	80,-
Stands	Arm curved, with LED illumination (0,21W transmitting + 1W incident)	•		
	Frosted glass / Ø 95 mm	•	OZB-A4805	30,-
Stage plate	Black-white / Ø 95 mm	•	OZB-A4806	30,-
Mechanical stage	Stage size: WxD 180x155 mm, Travel: 75x55 mm, for transmitting and incident illumination	٥	OZB-A4605	215,-
External illumination	Please find the information about external illumination units	in the catalogue from page 68 and or	n our website www.kern-	sohn.com

• = Standard configuration

o = Option





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.

1415,-

STANDARD















HSWF 10x Ø 23 mm





Ø 32,8 - 5,1









Pillar style

] [223.] [223				
Model				Standard c	onfiguration		Price
	Tube	Eyepiece	Field of view	Objective	Stand	Illumination	excl. of VAT ex works
KERN			mm	Zoom			€
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,-

0.7x - 4.5x

OZM 544

Trinocular

3W LED (incident); 3W LED (transmitting)

Stereo zoom microscope KERN OZM-5

Eyepiece			Specificat	ions - Objectives			
	Magnification	Standard			Auxiliary objecti	ves	
		1,0x	0,37x	0,5x	0,7x	1,5x	2x
HOWE 10v	Total magnification	7x - 45x	2,59x - 16,65x	3,5x - 22,5x	4,9x - 31,5x	10,5x - 67,5x	14x - 90x
HSWF 10x	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
0)4/5 4.5	Total magnification	10,5x - 67,5x	3,89x - 25x	5,3x - 33,8x	7,4x - 47,2x	15,8x - 101,3x	21x - 135x
SWF 15x	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
CWE 20	Total magnification	14x - 90x	5,18x - 33,3x	7x - 45x	9,8x - 63x	21x - 135x	28x - 180x
SWF 20x	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
014/5 0.0	Total magnification	21x - 135x	7,77x - 50x	10,5x - 67,5x	14,7x - 94,5x	31,5x - 202,5x	42x - 270x
SWF 30x	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	ee .	110 mm	275 mm	195 mm	145 mm	50 mm	35 mm

Model outfit			Model	KERN		Order number	Price excl. of VAT
		OZM 541	OZM 542	OZM 543	OZM 544	-	ex works €
	HSWF 10x / Ø 23 mm	••	••	••	••	OZB-A5503	60,-
	SWF 15x/Ø 17 mm	00	00	00	00	OZB-A5504	60,-
	SWF 20x / Ø 14 mm	00	00	00	00	OZB-A5505	70,-
Eyepieces	SWF 30x / Ø 9 mm	00	00	00	00	OZB-A5506	85,-
	HSWF 10x / Ø 23 mm (reticule 0,1 mm)	0	0	0	0	OZB-A5512	95,-
	SWF 15x / Ø17 mm (reticule 0,05 mm)	0	0	0	0	OZB-A5513	110,-
	SWF 20x / Ø14 mm (reticule 0,05 mm)	0	0	0	0	OZB-A5514	110,-
	0,37x only in combination with universal stand	0	0	0	0	OZB-A5611	135,-
	0,5x	0	0	0	0	OZB-A5612	120,-
Achromatic auxiliary objectives	0,7x	0	0	0	0	OZB-A5613	120,-
duxillary objectives	1,5x	0	0	0	0	OZB-A5615	120,-
	2,0x	0	0	0	0	OZB-A5616	120,-
	0,3x			0	0	OZB-A5701	120,-
	0,5x			0	0	OZB-A5702	120,-
	1,0x			0	0	OZB-A5703	95,-
C-Mount	1,0x (with micrometer) only in combination with OZB-A5703			0	0	OZB-A5704	250,-
	for SLR cameras (Nikon)			0	0	OZB-A5706	250,-
	for SLR cameras (Olympus)			0	0	OZB-A5707	250,-
	for SLR cameras (Canon)			0	0	OZB-A5708	250,-
Darkfield attachment	Darkfield attachment	0	0	0	0	OBB-A4601	85,-
Object clamp	Object clamp	0	0	0	0	OBB-A6205	45,-
	Pillar style, without illumination	•		•			
Stands	Pillar style, with 3W LED illumination (transmitting + incident)		•		•		
	Please find more stands in the catalogue on page 64 and on o	ur website	www.ker	n-sohn.coi	m		
	Frosted glass / Ø 94,5 mm		•		•	OZB-A5192	30,-
Stage plate	Black-white / Ø 94,5 mm	•	•	•	•	OZB-A5191	30,-
	Glass / Ø 94,5 mm		0		0	OZB-A5190	30,-
	Stage size: WxD 188x160 mm, Travel: 76x65 mm, for transmitting and incident illumination	0	0	0	0	OZB-A5781	165,-
Mechanical stage	Stage size: WxD 180x175 mm, Travel: 100x86 mm, for incident illumination only	0	0	0	0	OZB-A5782	240,-
External illumination	Please find the information about external illumination units in	the catal	ogue from	page 68 a	and on ou	r website www.kern-	sohn.com
	1			• = Star	ndard con	figuration	o = Opti



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-
- · 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.



























Model				Standard c	onfiguration		Price excl. of VAT
	Tube	be Eyepiece Field of view Objective Stand Illumination					
KERN			mm	Zoom			ex works €
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		·	Specificat	ions - Objectives	·			
	Magnification	Standard			Auxiliary objectiv	diliary objectives		
		1,0x	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	
HSWF TOX	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	
0145.45	Total magnification	12x - 105x	4,44x - 38,9x	6x - 52,5x	8,4x - 73,5x	18x - 157,5x	24x - 210x	
SWF 15x	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	
SWF 20X	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	
SWE 20.	Total magnification	24x - 210x	8,88x - 77,7x	12x - 105x	16,8x - 147x	36x - 315x	48x - 420x	
SWF 30x	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
		OZO 551	OZO 552	OZO 553	OZO 554		ex works €
	HSWF 10x / Ø 23 mm	••	••	••	••	OZB-A5503	60,-
	SWF 15x/Ø 17 mm	00	00	00	00	OZB-A5504	60,-
	SWF 20x/Ø 14 mm	00	00	00	00	OZB-A5505	70,-
Eyepieces	SWF 30x/Ø 9 mm	00	00	00	00	OZB-A5506	85,-
	HSWF 10x / Ø 23 mm (reticule 0,1 mm)	0	0	0	0	OZB-A5512	95,-
	SWF 15x/Ø 17 mm (reticule 0,05 mm)	0	0	0	0	OZB-A5513	110,-
	SWF 20x/Ø 14 mm (reticule 0,05 mm)	0	0	0	0	OZB-A5514	110,-
	0,37x only in combination with universal stand	0	0	0	0	OZB-A5611	135,-
	0,5x	0	0	0	0	OZB-A5612	120,-
Achromatic auxiliary objectives	0,7x	0	0	0	0	OZB-A5613	120,-
duxillary objectives	1,5x	0	0	0	0	OZB-A5615	120,-
	2,0x	0	0	0	0	OZB-A5616	120,-
	0,3x			0	0	OZB-A5701	120,-
	0,5x			0	0	OZB-A5702	120,-
	1,0x			0	0	OZB-A5703	95,-
C-Mount	1,0x (with micrometer) only in combination with OZB-A5703			0	0	OZB-A5704	250,-
	for SLR cameras (Nikon)			0	0	OZB-A5706	250,-
	for SLR cameras (Olympus)			0	0	OZB-A5707	250,-
	for SLR cameras (Canon)			0	0	OZB-A5708	250,-
Darkfield attachment	Darkfield attachment	0	0	0	0	OBB-A4601	85,-
Object clamp	Object clamp	0	0	0	0	OBB-A6205	45,-
	Pillar style, without illumination	•		•			
Stands	Pillar style, with 3W LED illumination (transmitting + incident)		•		•		
	Please find more stands in the catalogue on page 64 and on ou	ur website	e www.ker	n-sohn.coi	m		
	Frosted glass / Ø 94,5 mm		•		•	OZB-A5192	30,-
Stage plate	Black-white / Ø 94,5 mm	•	•	•	•	OZB-A5191	30,-
	Glass / Ø 94,5 mm		0		0	OZB-A5190	30,-
Machanias	Stage size: WxD 188x160 mm, Travel: 76x65 mm, for transmitting and incident illumination	0	0	0	0	OZB-A5781	165,-
Mechanical stage	Stage size: WxD 180x175 mm, Travel: 100x86 mm, for incident illumination only	0	o	0	0	OZB-A5782	240,-
External illumination	Please find the information about external illumination units in	the catal	ogue from	page 68 a	and on ou	website www.kern-	sohn.com
	<u> </u>			• = Star	ndard con	figuration	o = Opti

^{• =} Standard configuration

o = Option



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-
- · 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	































Model				Standard c	onfiguration		Price
	Tube	Eyepiece	Field of view	Objective	Stand	Illumination	excl. of VAT ex works
KERN			mm	Zoom			€
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			Specifica	tions - Objectives					
	Magnification	Standard	Standard			Auxiliary objectives			
		1,0x	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		
HSWF TUX	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		
014/5 4.5	Total magnification	9x - 82,5x	3,33x - 30,5x	4,5x - 41,25x	6,3x - 57,75x	13,5x - 123,75x	18x - 165x		
SWF 15x	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		
CME 20	Total magnification	12x - 110x	4,44x - 40,7x	6x - 55x	8,4x - 77x	18x - 165x	24x - 220x		
SWF 20x	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		
0)4/5 00-	Total magnification	18x - 165x	6,66x - 61,1x	9x - 82,5x	12,6x - 115,5x	27x - 247,5x	36x - 330x		
SWF 30x	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		

SW SW SW HS	SWF 10x / Ø 23 mm NF 15x / Ø 17 mm NF 20x / Ø 14 mm NF 30x / Ø 9 mm	OZP 555 ●●	OZP 556	OZP 557	OZP 558		excl. of VAT ex works
SW SW SW HS	NF 15x / Ø 17 mm NF 20x / Ø 14 mm	00	••				€
Eyepieces SW HS	NF 20x / Ø 14 mm			••	••	OZB-A5503	60,-
Eyepieces SW HS	,		00	00	00	OZB-A5504	60,-
HS	NF 30x / Ø 9 mm	00	00	00	00	OZB-A5505	70,-
		00	00	00	00	OZB-A5506	85,-
SW	SWF 10x / Ø 23 mm (reticule 0,1 mm)	0	0	0	0	OZB-A5512	95,-
	NF 15x / Ø 17 mm (reticule 0,05 mm)	0	0	0	0	OZB-A5513	110,-
SW	NF 20x / Ø 14 mm (reticule 0,05 mm)	0	0	0	0	OZB-A5514	110,-
0,3	37x only in combination with universal stand	0	0	0	0	OZB-A5611	135,-
0,5	5x	0	0	0	0	OZB-A5612	120,-
Achromatic 0,7	7x	0	0	0	0	OZB-A5613	120,-
objectives 1,5	5x	0	0	0	0	OZB-A5615	120,-
2,0	0x	0	0	0	0	OZB-A5616	120,-
0,3	3x			0	0	OZB-A5701	120,-
0,5	5x			0	0	OZB-A5702	120,-
1,0	0x			0	0	OZB-A5703	95,-
C-Mount 1,0	0x (with micrometer) only in combination with OZB-A5703			0	0	OZB-A5704	250,-
for	r SLR cameras (Nikon)			0	0	OZB-A5706	250,-
for	r SLR cameras (Olympus)			0	0	OZB-A5707	250,-
for	r SLR cameras (Canon)			0	0	OZB-A5708	250,-
Darkfield attachment Da	arkfield attachment	0	0	0	0	OBB-A4601	85,-
Object clamp Ob	bject clamp	0	0	0	0	OBB-A6205	45,-
Pill	llar style, without illumination	•		•			
Stands Pill	llar style, with 3W LED illumination (transmitting + incident)		•		•		
Ple	ease find more stands in the catalogue from page 64 and on	our webs	te www.k	ern-sohn.c	om	1	
Frc	osted glass / Ø 94,5 mm		•		•	OZB-A5192	30,-
Stage plate Bla	ack-white / Ø 94,5 mm	•	•	•	•	OZB-A5191	30,-
Gla	lass / Ø 94,5 mm		0		0	OZB-A5190	30,-
for	r incident and transmitting illumination	0	0	0	0	OZB-A5781	165,-
	age size: WxD 180x175 mm, Travel: 100x86 mm, rincident illumination only	0	0	0	0	OZB-A5782	240,-
External illumination	ease find the information about external illumination units in	the catalo	gue from	page 68 a	ind on our	website www.kern-	sohn.com

^{• =} Standard configuration

o = Option





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: Parallel
- · 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

O7R 564

• Net weight approx. 6,9 kg

Please find detailed information in the following charts.

























Model		Standard configuration								
	Tube	Eyepiece	Field of view	Objective	Stand	Illumination	excl. of VAT ex works			
KERN			mm	Zoom			€			
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		Speci	fications – Objectives					
	Magnification	Standard Plan		Achromatic objectives				
		1,0x	0,5x	0,7x	1,5x (Auxiliary)			
HWF 10x	Total magnification	8x - 50x	4x - 25x	5,6x - 35x	12x - 75x			
HWF IUX	Field of view mm	Ø 27,5 - 4,4	Ø 55 - 8,8	Ø 39,3 - 6,3	Ø 18,33 - 2,93			
0)4/5 4.5	Total magnification	12x - 75x	6x - 37,5x	8,4x - 5,5x	18x - 112,5x			
SWF 15x	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			
SWF ZUX	Field of view mm	Ø 17,5 – 2,8	Ø 35 - 5,6	Ø 25 – 4	Ø 11,67 – 1,87			
014/5 00	Total magnification	24x - 150x	12x - 75x	16,8x - 105x	36x - 225x			
SWF 30x	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 distant	ce	91 mm	186 mm	135 mm	40 mm			

Model outfit		Mode	I KERN	Order number	Price excl. of VAT
		OZR 563	OZR 564		ex works €
	HWF 10x/Ø 22 mm	••	••	OZB-A5502	60,-
	SWF 15x/Ø 17 mm	00	00	OZB-A5504	60,-
	SWF 20x / Ø 14 mm	00	00	OZB-A5505	70,-
Eyepieces	SWF 30x / Ø 9 mm	00	00	OZB-A5506	85,-
	HWF 10x / Ø 22 mm (reticule 0,1 mm)	0	0	OZB-A5511	95,-
	SWF 15x / Ø 17 mm (reticule 0,05 mm)	0	0	OZB-A5513	110,-
	SWF 20x / Ø 14 mm (reticule 0,05 mm)	0	0	OZB-A5514	110,-
Plan achromatic objective	1,0x	•	•	OZB-A5603	495,-
	0,5x	0	0	OZB-A5601	195,-
Achromatic objectives	0,7x	0	0	OZB-A5602	195,-
	1,5x (Only in combination with OZB-A5603)	0	0	OZB-A5604	255,-
Trinocular beamsplitter	Division 100:0	•	•	OZB-A5401	575,-
	Division 50:50	0	0	OZB-A5402	575,-
	0,3x	0	0	OZB-A5701	120,-
	0,5x	0	0	OZB-A5702	120,-
	1,0x	0	0	OZB-A5703	95,-
C-Mount	1,0x (reticule) only in combination with OZB-A5703	0	0	OZB-A5704	250,-
	for SLR cameras (Nikon)	0	0	OZB-A5706	250,-
	for SLR cameras (Olympus)	0	0	OZB-A5707	250,-
	for SLR cameras (Canon)	0	0	OZB-A5708	250,-
Darkfield attachment	Darkfield attachment	0	0	OBB-A4601	85,-
Object clamp	Object clamp	0	0	OBB-A6205	45,-
Standa	Pillar style, without illumination	•			
Stands	Pillar style, with 3W LED illumination (transmitting + incident)		•		
	Frosted glass / Ø 94,5 mm		•	OZB-A5192	30,-
Stage plate	Black-white / Ø 94,5 mm	•	•	OZB-A5191	30,-
	Glass / Ø 94,5 mm		0	OZB-A5190	30,-
Moohanias! stors	Stage size: WxD 188x160 mm, Travel: 76x65 mm, for incident and transmitting illumination	0	0	OZB-A5781	165,-
Mechanical stage	Stage size: WxD 180x175 mm, Travel: 100x86 mm, for incident illumination only	0	0	OZB-A5782	240,-
External illumination	Please find the information about external illumination units in	the catalogue from	n page 68 and on o	ur website www.kern-	sohn.com
			• = Standard co	nfiguration	o = Opt





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 aboveaverage 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 appli-
- · 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

• Net weight approx. 7,1 kg

Please find detailed information in the following charts.



























Model		Standard configuration								
	Tube	Eyepiece	Field of view	Objective	Stand	Illumination	excl. of VAT ex works			
KERN			mm	Zoom			€			
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		Speci	fications - Objectives			
	Magnification	Standard Plan		Achromatic object	ives	
		1,0x	0,5x	0,7x	1,5x (Auxiliary)	
HWF 10x	Total magnification	8x - 80x	4x - 40x	5,6x - 56x	12x - 120x	
HWF IOX	Field of view mm	Ø 27,5 - 2,75	Ø 55 – 5,5	Ø 39,3 - 3,93	Ø 18,33 – 1,83	
0)4/5 4.5	Total magnification	12x - 120x	6x - 60x	8,4x - 84x	18x - 180x	
SWF 15x	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	
SWF ZUX	Field of view mm	Ø 17,5 – 1,75	Ø 35 – 3,5	Ø 25 – 2,5	Ø 11,67 – 1,17	
014/5 0.0	Total magnification	24x - 240x	12x - 120x	16,8x - 168x	36x - 360x	
SWF 30x	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 distant	ce	91 mm	186 mm	135 mm	40 mm	

Model outfit		Mode	I KERN	Order number	Price excl. of VAT
		OZS 573	OZS 574		ex works €
	HWF 10x/Ø 22 mm	••	••	OZB-A5502	60,-
	SWF 15x/Ø 17 mm	00	00	OZB-A5504	60,-
	SWF 20x/Ø 14 mm	00	00	OZB-A5505	70,-
Eyepieces	SWF 30x / Ø 9 mm	00	00	OZB-A5506	85,-
	HWF 10x / Ø 22 mm (reticule 0,1 mm)	0	0	OZB-A5511	95,-
	SWF 15x / Ø 17 mm (reticule 0,05 mm)	0	0	OZB-A5513	110,-
	SWF 20x / Ø 14 mm (reticule 0,05 mm)	0	0	OZB-A5514	110,-
Plan achromatic objective	1,0x	•	•	OZB-A5603	495,-
	0,5x	0	0	OZB-A5601	195,-
Achromatic objectives	0,7x	0	0	OZB-A5602	195,-
,	1,5x (Only in combination with OZB-A5603)	0	0	OZB-A5604	255,-
Trinocular	Division 100:0	•	•	OZB-A5401	575,-
beamsplitter	Division 50:50	0	0	OZB-A5402	575,-
	0,3x	0	0	OZB-A5701	120,-
	0,5x	0	0	OZB-A5702	120,-
	1,0x	0	0	OZB-A5703	95,-
C-Mount	1,0x (reticule) only in combination with OZB-A5703	0	0	OZB-A5704	250,-
	for SLR cameras (Nikon)	0	0	OZB-A5706	250,-
	for SLR cameras (Olympus)	0	0	OZB-A5707	250,-
	for SLR cameras (Canon)	0	0	OZB-A5708	250,-
Darkfield attachment	Darkfield attachment	0	0	OBB-A4601	85,-
Object clamp	Object clamp	0	0	OBB-A6205	45,-
Standa	Pillar style, without illumination	•			
Stands	Pillar style, with 3W LED illumination (transmitting + incident)		•		
	Frosted glass / Ø 94,5 mm		•	OZB-A5192	30,-
Stage plate	Black-white / Ø 94,5 mm	•	•	OZB-A5191	30,-
	Glass / Ø 94,5 mm		0	OZB-A5190	30,-
Machaniaal atass	Stage size: WxD 188x160 mm, Travel: 76x65 mm, for incident and transmitting illumination	0	0	OZB-A5781	165,-
Mechanical stage	Stage size: WxD 180x175 mm, Travel: 100x86 mm, for incident illumination only	0	0	OZB-A5782	240,-
External illumination	Please find the information about external illumination units in	the catalogue from	n page 68 and on o	ur website www.kern-	sohn.com
			• = Standard co	nfiguration	O = Opt





Plug in for power supply

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.

















-		
	/	7
4	LILLE	
	CALI	-

Model		Standard configuration					
	Tube	Tube Eyepiece Field of view Objective Stand Illumination					excl. of VAT ex works
KERN			mm	Zoom			€
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		
HWF TOX	Field of view mm	Ø 12,78 - 3,5		
SWF 15x	Total magnification	27x - 97,5x		
SWF 15X	Field of view mm	Ø 9,5 - 2,6		
SWF 20x	Total magnification	36x - 130x		
SWF 20X	Field of view mm	Ø 7,78- 2,2		
CME 20	Total magnification	54x - 195x		
SWF 30x	Field of view mm	Ø 5 – 1,4		
Working distance		92 mm		

Model outfit		Model KERN	Order number	Price excl. of VAT
		OZC 583		ex works €
	HSWF 10x / Ø 23 mm	••	OZB-A5503	60,-
	SWF 15x/Ø 17 mm	00	OZB-A5504	60,-
	SWF 20x/Ø 14 mm	00	OZB-A5505	70,-
Eyepieces	SWF 30x / Ø 9 mm	00	OZB-A5506	85,-
	HSWF 10x / Ø 23 mm (reticule 0,1 mm)	0	OZB-A5512	95,-
	SWF 15x / Ø 17 mm (reticule 0,05 mm)	0	OZB-A5513	110,-
	SWF 20x/Ø 14 mm (reticule 0,05 mm)	0	OZB-A5514	110,-
	0,3x	0	OZB-A5701	120,-
	0,5x	0	OZB-A5702	120,-
	1,0x	0	OZB-A5703	95,-
C-Mount	1,0x (with micrometer) only in combination with OZB-A5703	0	OZB-A5704	250,-
	for SLR cameras (Nikon)	0	OZB-A5706	250,-
	for SLR cameras (Olympus)	0	OZB-A5707	250,-
	for SLR cameras (Canon)	0	OZB-A5708	250,-
Stands	Arm curved, without illumination	•		
Mechanical stage	Stage size: WxD 188x160 mm, Travel: 76x65 mm, for incident and transmitting illumination	0	OZB-A5781	165,-
	Stage size: WxD 180x175 mm, Travel: 100x86 mm, for incident illumination only	0	OZB-A5782	240,-
External Illumination	Please find the information about external illumination units in the	catalogue from page 68 and or	our website www.kern-	-sohn.com

• = Standard configuration

O = Option







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.





















Model		Standard configuration					Price
	Tube	Tube Eyepiece Field of view Objective Stand Illumination				excl. of VAT ex works	
KERN			mm	Zoom			€
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
WF 5X	Field of view mm	Ø 26 - 6
HWF 10x	Total magnification	7,5x - 36x
HWF IOX	Field of view mm	Ø 28 - 6
WF 15x	Total magnification	11,25x - 54x
WF 15X	Field of view mm	Ø 19 - 4,5
WF 20x	Total magnification	15x - 72x
WF ZUX	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
IIWI JA	Field of view mm	Ø 31 - 4,6
HSWF 10x	Total magnification	7,5x - 50x
HSWF TOX	Field of view mm	Ø 33 - 5
HWF 15x	Total magnification	11,25x - 75x
IIWI ISX	Field of view mm	Ø 24 - 4,2
HSWF 20x	Total magnification	15x - 100x
HSWF ZUX	Field of view mm	Ø 20 - 3,5
HWF 25x	Total magnification	18,75x - 125x
HWF 23X	Field of view mm	Ø 15,8 - 2,4
Working distance		113 mm

Model outfit		Mode	el KERN	Order number	Price excl. of VAT
		OZG 493	OZG 497		ex works €
	WF 5x / Ø 16,2 mm	00		OZB-A4101	50,-
	HWF 10x / Ø 21,5 mm	••		OZB-A4106	50,-
	WF 15x/Ø 15 mm	00		OZB-A4103	45,-
	WF 20x / Ø 10 mm	00		OZB-A4104	50,-
Eyepieces	HWF 5x / Ø 23,2 mm		00	OZB-A4112	55,-
	HSWF 10x / Ø 23 mm		••	OZB-A4118	55,-
	HWF 15x / Ø 15 mm		00	OZB-A4119	55,-
	HSWF 20x / Ø 14,5 mm		00	OZB-A4120	70,-
	HWF 25x / Ø 11,7 mm		00	OZB-A4121	70,-
	1x		0	OZB-A4809	65,-
C-Mount	0,3x		0	OZB-A4810	85,-
	0,5x		0	OZB-A4811	100,-
Darkfield attachment	Darkfield attachment	•	•	OZB-A4601	70,-
Object clamp	Object clamp (steel wire)	•	•	OZB-A4604	45,-
	Pillar style, with 12V / 10W Halogen (transmitting + incident) and 10W Fluorescent illumination (front)	•			
Stands	Arm curved, with 12V / 10W Halogen (transmitting) and 10W Fluorescent illumination (front) + Single fiber illumination		•		

• = Standard configuration

O = Option





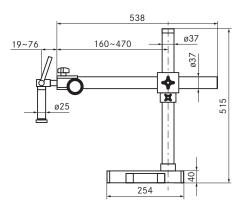


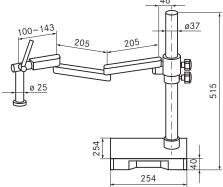


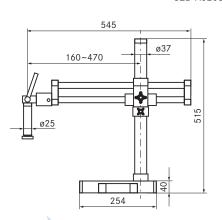
OZB-A5201

OZB-A5202

OZB-A5203







Model KERN	Description	Price excl. of VAT ex works €
OZB-A5201	Universal stand with telescopic arm	500,-
OZB-A5202	Universal stand with jointed arm	500,-
OZB-A5203	Universal stand with ball bearing mounted double arm	810,-

Please check our webshop for new universal stands!

Holders





OZB-A5301

OZB-A5306

Model	Description	Price excl. of VAT ex works €
OZB-A5301	With adjustable tension of the hand wheel. Suitable for all universal stands as well as the illustrated accessory-pillar stands and for models of series OSF 5x, OZM, OZO and OZP	145,-
OZB-A5306	With coaxial coarse and fine adjustment and adjustable tension of the hand wheel. Suitable for all universal stands as well as the illustrated accessory-pillar stands and for models of series OSF 5x, OZM, OZO and OZP	255,-



OZB-A5121 with coarse and fine adjustment



OZB-A5104 (Arm curved stand)



OZB-A5107 with extra small stage



OZB-A5123 with coarse and fine adjustment as well as incident and transmitting illumination



OZB-A5106 (Arm curved stand) with incident and transmitting illumination



OZB-A5109 with extra small stage as well as incident and transmitting illumination

Stereomicroscope stands







OZB-A5127 with coated steel stage as well as coarse and fine adjustment

Stereomicroscope stands for the greatest flexibility

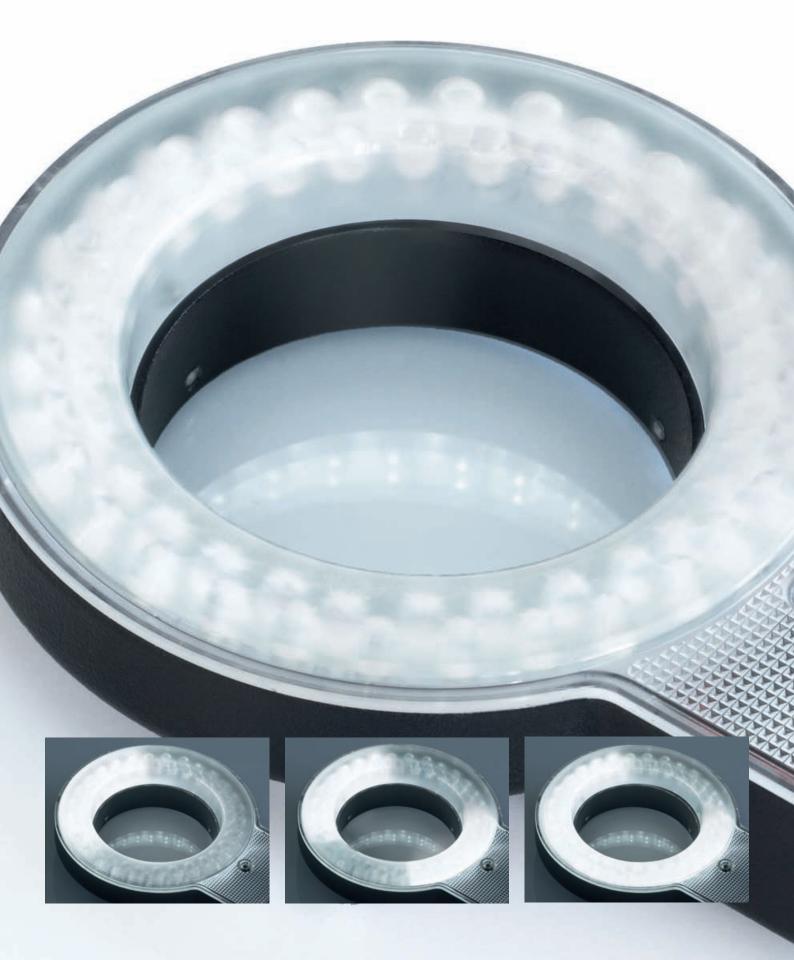
Features

- Choose your favourite stand here to achieve Suitable for all KERN OSF-5, OZM, OZO and the maximum flexibility and greatest possible ease of use in stereo microscopy.
- We supply a wide range of stands with and without integral illumination unit.
- These stands are very robust and flexible, and are characterised by their precise mechanism.
- OZP stereomicroscopes.
- Stands for other models are available on request or by going to www.kern-sohn.com

Model KERN	Stand style	Illumination	Description	Dimensions	Price excl. of VAT ex works €
OZB-A5121	Pillar style	-	With coaxial coarse and fine adjustment	283x292x271,5	300,-
OZB-A5123	Pillar style	3W LED (incident + transmitting)	With coaxial coarse and fine adjustment	283x292x303,5	485,-
OZB-A5104	Arm curved	-		283x292x240	215,-
OZB-A5106	Arm curved	3W LED (incident + transmitting)		283x292x272	435,-
OZB-A5107	Pillar style	-		170x245x271,5	215,-
OZB-A5109	Pillar style	3W LED (incident + transmitting)		170x245x303,5	430,-
OZB-A5114	Pillar style	-	With rust protection iron stage	400x300x371,5	255,-
OZB-A5127	Pillar style	-	With coated steel stage	181x245x272	360,-

6 External illumination units for stereomicroscopes

Ring illumination and cold light sources









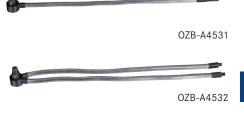
OZB-A4571 OZB-A4572 OBB-A6102

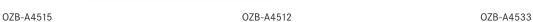
Model	Illuminance	Inner Ø	Colour temperature	Brightness adjustable	Illumination by segments	Price excl. of VAT ex works €
OZB-A4571	3W LED	60	7000 - 11000	•		80,-
OZB-A4572	3W LED	60	6500 – 7000	•	•	125,-
OBB-A6102	4,5W LED	63	approx. 7600	•		125,-

Fiber illumination









Model KERN	Description	Length	Illuminance	Colour temperature	Brightness adjustable	Price excl. of VAT ex works €
OZB-A4515	Dual fiber unit LED	300	6W	5600 - 6300	•	130,-
OZB-A4512	Cold light source halogen	-	24V / 150W	3150 - 3200	•	255,-
OZB-A4531	Single fiber	490				155,-
OZB-A4532	Dual fiber	490	Usable for OZB-A451	220,-		
OZB-A4533	Ring fiber	900]			320,-

Cold light sources and ring lights for maximum flexibility in stereo microscopy

Features

- Choose your favourite external illumination here to achieve maximum flexibility and greatest possible ease of use in stereo microscopy.
- These professional illumination units provide a quality of light at a high, constant intensity at all times.
- Regardless of whether your choice is space-saving ring lights or cold light sources using optical fibre, our range is all you can wish for.
- Additional models are available on request or by going to www.kern-sohn.com

7 Microscope cameras





Microscope cameras for common microscopy applications

Features

- These microscope cameras are universal and can be easily connected to the microscope and a PC / laptop via USB.
- The proven CMOS technology provides fast, clear images.
- The attached English-language software provides a good basis for observing, measuring and documenting your work in all common microscopy applications.
- The camera, USB cable, software CD and a stage micrometer for calibration are included in the scope of delivery.
- Please don't forget to order the C-Mount adapter
- Additional models are available on request or by going to www.kern-sohn.com







	Model KERN	Resolution	USB	FPS	Sensor	Sensor size	Colour / Monochrome	Supported operating system	Price excl. of VAT ex works €
(ODC 132	3 MP	2.0	5-30	CMOS	1/2"	colour	Win 2000, XP, 7, Vista	530,-
(ODC 152	5 MP	2.0	5.5-30	CMOS	1/2,5"	colour	Win 2000, XP, 7, Vista	620,-





Refractometers

8	Analogue refractometers – type: hand-held	74
9	Digital refractometers – type: hand-held	80
10	Abbe refractometers – type: desktop	85

Your KERN product specialist will be happy to help:



Daniel Junger Manager KERN Optics

Tel. +49 [0] 7433 9933-155 Fax +49 [0] 7433 9933-149 daniel.junger@kern-sohn.com





Box with accessories

Refractive index measurement for laboratories and the industry

Features

- The KERN ORA refractometers are universal, maintenance free analogue handheld refractometers.
- The handy and robust design allows the easy, efficient and sustainable use in everyday life.
- Manually calculated conversions and errors of the user are avoided by multiple selectable
- · These scales are especailly developed, exactly calculated and checked. They are also characterized by their thin and clear lines.
- The optical system and the prism cover are made of special material which allows a low-tolerance measuring.
- · All ORA models are equipped with an eyepiece for easy and smooth setting for many different diopter strengths.

- The models marked with "ATC" have an automatic temperature compensation which enables accurate measurement at different ambient temperatures (10 °C to 30 °C).
- The follwoing accessory-parts are included:
- Calibration liquid
- Calibration block (if required)
- Storage box
- Pipette
- Small screwdriver
- Cleaning tissue.
- Further accessories are available optionally.

Technical data

- · Die-cast housing of copper-aluminium alloy, chrome coated
- Measurement temperature without ATC: 20 °C
- Measurement temperature range with ATC: 10 °C - 30 °C
- Packing dimensions WxDxH 215x94x65 mm (depending on the model)
- Dimensions of the box: 205x75x55 mm (depending on the model)
- Product length: approx. 130 200 mm (depending on the model)
- Net weight approx. 135 600 g (depending on the model)







Analogue refractometer KERN ORA

Scope of application: Sugar

The following models are particularly suitable for the measurement of the "BRIX" value. They are used to determine the sugar content in food, especially in fruit, vegetables, juice and soft drinks. In the same ideal way these refractometers serve for monitoring processes in the industry (coolant monitoring, oils, lubricants and fats).

The main scope of applications is:

- Industry: Monitoring of lubricants for process and quality control
- Food industry: Beverages, fruits and sweets
- Agriculture: Determination of the degree of ripeness of fruits for quality control in harvesting
- Restaurants and large-scale catering establishment

Model	Scales	Measuring range	Division	ATC	Price excl. of VAT ex works €
ORA 10BB	Brix	0 - 10 %	0,1 %		80,-
ORA 10BA	Brix	0 - 10 %	0,1 %	•	85,-
ORA 18BB	Brix	0 - 18 %	0,1 %		80,-
ORA 20BB	Brix	0 – 20 %	0,1 %		80,-
ORA 20BA	Brix	0 – 20 %	0,1 %	•	85,-
ORA 32BB	Brix	0 - 32 %	0,2 %		80,-
ORA 32BA	Brix	0 - 32 %	0,2 %	•	85,-
ORA 62BB	Brix	28 - 62 %	0,2 %		80,-
ORA 62BA	Brix	28 - 62 %	0,2 %	•	85,-
ORA 82BB	Brix	45 - 82 %	0,5 %		85,-
ORA 80BB	Brix	0 - 80 %	0,5 %		85,-



Scope of application: Honey

The following models are particularly suitable for the measurement of the "BRIX" value, as well as the water content in honey and "degrees Baumé" to determine the relative density of liquids.

- Beekeeping
- · Honey production

Model KERN	Scales	Measuring range	Division	ATC	Price excl. of VAT ex works €
ORA 3HB	Brix Baumé Water content	58 – 92 % 38 – 43 °Bé 12 – 27 %	0,5 % 0,5 °Bé 1 %		80,-
ORA 3HA	Brix Baumé Water content	58 – 92 % 38 – 43 °Bé 12 – 27 %	0,5 % 0,5 °Bé 1 %	•	85,-
ORA 6HB	Water content	12 - 30 %	0,1 %		80,-
ORA 6HA	Water content	12 - 30 %	0,1 %	•	85,-



The following models are particularly suitable for the measurement and concentration control of the mass fraction of natrium chloride in water as well as of the content of NaCl (salt) in water. This is often used in the preparation and the cooking of sauces, bases for pastries, the production of brines (e.g. for white cheese) and the preparation of seafood and marinades for meat.

The main scope of applications is:

- · Food industry
- Restaurants and large-scale catering establishment
- Aquaristic: Fishkeepers / Fishfarmers in sea and sweetwater

Model KERN	Scales	Measuring range	Division	ATC	Price excl. of VAT ex works €
ORA 1SB	Salinity specific gravity	0 – 100 ‰ 1,000 – 1,070 sg	1 ‰ 0,001 sg		80,-
ORA 1SA	Salinity specific gravity	0 - 100 ‰ 1,000 - 1,070 sg	1 ‰ 0,001 sg	•	85,-
ORA 2SB	Salt (NaCl)	0 - 28 %	0,2 %		80,-
ORA 2SA	Salt (NaCl)	0 – 28 %	0,2 %	•	85,-
ORA 3SB	Salt (NaCl) Brix	0 - 28 % 0 - 32 %	0,2 % 0,2 %		80,-
ORA 3SA	Salt (NaCl) Brix	0 - 28 % 0 - 32 %	0,2 % 0,2 %	•	85,-



Scope of application: Wine

The following models are particularly suitable for the measurement of the content of sugar in fruits. It indicates the expected °Alcohol of the fruit. The degree of ripeness of fruit (fruit-sugar) can also be determined, such as e.g. grapes.

The main scope of applications is:

- Agriculture: Wine-growing and fruit-growing
- · Wine-production
- Must and alcohol production



Model KERN	Scales	Measuring range	Division	ATC	Price excl. of VAT ex works €
ORA 1WB	Oechsle KMW (Babo) Brix	0 - 140 °Oe 0 - 25 °KMW 0 - 32 %	1 °Oe 0,25 °KMW 0,2 %		80,-
ORA 1WA	Oechsle KMW (Babo) Brix	0 - 140 °Oe 0 - 25 °KMW 0 - 32 %	1 °Oe 0,25 °KMW 0,2 %	•	85,-
ORA 3WB	Oechsle Brix	30 - 140 °Oe 0 - 32 %	1 °Oe 0,2 %		80,-
ORA 3WA	Oechsle Brix	30 - 140 °Oe 0 - 32 %	1 °Oe 0,2 %	•	85,-
ORA 7WB	Oechsle KMW (Babo) Brix	30 - 140 °Oe 0 - 25 °KMW 0 - 32 %	1 °Oe 0,2 °KMW 0,2 %		80,-
ORA 7WA	Oechsle KMW (Babo) Brix	30 - 140 °Oe 0 - 25 °KMW 0 - 32 %	1 °Oe 0,2 °KMW 0,2 %	•	85,-
ORA 2AB	Vol (weight) Vol (weight)	0 – 50 % Vol 50 – 80 % Vol	1 % Vol 2,5 % Vol		80,-



Scope of application: Urine

The following models are particularly suitable for the measurement of the specific gravity (sg) in urine, the quantitiy of serum (serumproteine) in urine (doping control among athletes), and the refractive index.

The main scope of applications is:

- Hospitals
- Doctor's surgeries / Physicians
- Medical training institutions
- Nursing homes
- Sports medicine (doping test)

Model KERN	Scales	Measuring range	Division	ATC	Price excl. of VAT ex works €
ORA 2PB	Serum protein Urine (spec. gravity) Refractive index	0 – 12 g / dl 1,000 – 1,050 sgU 1,3330 – 1,3600 nD	0,2 g / dl 0,002 sgU 0,0005 nD		80,-
ORA 2PA	Serum protein Urine (spec. gravity) Refractive index	0 - 12 g / dl 1,000 - 1,050 sgU 1,3330 - 1,3600 nD	0,2 g / dl 0,002 sgU 0,0005 nD	•	85,-



Scope of application: Industry / Automotive

The following models are particularly suitable for the measurement and determination of AdBlue, glycol concentration (ethylene EG, propylene PG), battery fluid (BF), urea, the freezing point of fountain solution (CW) and the refractive index. Furthermore these models are suitable for the measurement of thermal exchange systems.

- · Automotive industry: Car-workshops and producers
- Chemical industry
- · Solar industry: Antifreeze monitoring
- Geothermal industry: Brine-concentration-measurement for ground heat
- Forestry / Lumbermen

Model KERN	Scales	Measuring range	Division	ATC	Price excl. of VAT ex works €
ORA 4FB	EG (G13) PG (G11 / 12) CW BF	-50 - 0 °C -50 - 0 °C -40 - 0 °C 1,10 - 1,40 kg/l	1 °C 1 °C 5 °C 0,01 kg/l		80,-
ORA 4FA	EG (G13) PG (G11 / 12) CW BF	-50 - 0 °C -50 - 0 °C -40 - 0 °C 1,10 - 1,40 kg/l	1 °C 1 °C 5 °C 0,01 kg/l	•	85,-
ORA 1UB	Urea	0 - 40 %	0,2 %		80,-
ORA 1UA	Urea	0 - 40 %	0,2 %	•	85,-
ORA 4UB	Urea EG (G13) PG (G11 / 12) CW BF	30 - 35 % -50 - 0 ° C -50 - 0 ° C -40 - 0 ° C 1,10 - 1,40 kg/l	0,2 % 1 °C 1 °C 5 °C 0,01 kg/l		80,-
ORA 4UA	Urea EG (G13) PG (G11 / 12) CW BF	30 - 35 % -50 - 0 ° C -50 - 0 ° C -40 - 0 ° C 1,10 - 1,40 kg/l	0,2 % 1 °C 1 °C 5 °C 0,01 kg/I	•	85,-



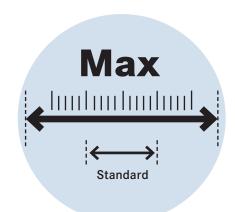
Scope of application: Expert applications

The following models have a special large measuring range for the refractive index and large divided scales for the measurement and clear reading of Brix values.

The main scope of applications is:

• Universal application, especially when extra large measuring ranges are required

Model KERN	Scales	Measuring range	Division	ATC	Price excl. of VAT ex works €
ORA 80BE	Brix	0 - 50 % 50 - 80 %	0,5 % 0,5 %		115,-
ORA 90BE	Brix	0 - 42 % 42 - 71 % 71 - 90 %	0,2 % 0,2 % 0,2 %		275,-
ORA 1RE	Refractive index	1,333 - 1,405 nD 1,405 - 1,468 nD 1,468 - 1,517 nD	0,005 nD 0,005 nD 0,005 nD		275,-
ORA 4RR	Refractive index	1,440 - 1,520 nD	0,001 nD		85,-







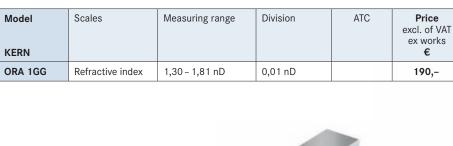


Scope of application: Gemmology / Jewellery

The Gem models have a special refracting-index range for jewellery. For this refractometer there is a nice leather bag in the scope of delivery included.

The main scope of applications is:

- Jewellers
- Training / Education
- Jewellery industry



ORA 1GG







Accessory parts: Analogue refractometer - ORA

Model KERN	Description	Price excl. of VAT ex works €
ORA-A1101	Prism coverplate with integrated LED-Diode	30,-
ORA-A2103	Leather bag for analog refractometers	30,-
ORA-A1001	Calibration liquid 0% (Destilled Water) Volume: 2,5 ml	30,-
ORA-A1002	Contact liquid 19,6 % for models ORA 6HB, ORA 6HA Volume: 2,5 ml	30,-
ORA-A1003	Calibration liquid 29,6 % for models ORA 62BB Volume: 2,5 ml	30,-
ORA-A1004	Contact liquid 78,8 % for models ORA 82BB, ORA 3HA, ORA 3HB, ORA 4RR; Volume: 2,5 ml	30,-
ORA-A1005	Calibration block for models ORA 82BB, ORA 3HA, ORA 3HB, ORA 6HA, ORA 6HB, ORA 4RR	30,-
ORA-A1007	Contact liquid 2-lodmethan for model ORA 1GG Volume: 2,5 ml	30,-
ORA-A1008	Calibration block for model ORA 1GG	40,-
ORA-2001	Prism coverplate (spare part)	30,-





Prism coverplate with LED ORA-A1101

Leather bag ORA-A2103





Calibration liquid

Calibration block





Transport and storage case



Battery compartment

Digital refractive index measurement for laboratories and the industry for multi-application

Features

- The KERN ORD refractometers are accurate and universal maintenance free digital handheld refractometers.
- The typical and practical design is suitable for a quick and convenient everyday use and is characterized by its easy-using and robustness.
- The large display is easy to read. Mistakes in reading are avoided.
- A large selection of models is available with single or multiple scales. This allows the use in various applications.
- The instrument comes with an optimized software that can show a result in different scales.
- The integrated automatic temperature compensation (ATC), avoids the manual conversion of the measurement. This allows a quick and efficient usage of the instrument.

 The required calibration liquid is already included in scope of in the delivery, as well as a storage box, a leather case, a pipette, a small screwdriver and a cleaning cloth.

Technical data

- Measurement temperature: 10°C 30°C
- Packing dimensions WxDxH 235x200x65 mm
- Overall dimensions WxDxH 133x65x38 mm
- Net weight approx. 200 g
- Power supply: 2xAAA (1,5V)
- Lifetime of the battery: 10000 measurements
- ATC (Automatic Temperature Compensation)
- Minimum sample volume: 2 drops
- Automatic energy management (turns off after 5 minutes)

STANDARD







Digital refractometer KERN ORD

Scope of application: Sugar

The following models are particularly suitable for the measurement of the "BRIX" value. They are used to determine the sugar content in food, especially in fruit, vegetables, juice and sweet or soft drinks. In the same ideal way, these refractometers serve in monitoring processes in the industry (coolant monitoring, oils, lubricants and fats). Alternativly, the dispaly can be switched to show the refractive index.

The main scope of applications is:

- Industry: Monitoring of lubricants in machines and quality control
- Food industry: Beverages, fruits and sweets
- · Agriculture: Determination of the degree of ripeness of fruit for quality control in harvesting
- Restaurants and large-scale catering establishment

Model KERN	Scales	Measuring range	Accuracy	Division	Price excl. of VAT ex works €
ORD 45BM	Brix Refractive index	0 - 45 % 1,3330 - 1,4098 nD	± 0,2 % ± 0,0003 nD	0,1 % 0,0001 nD	305,-
ORD 92BM	Brix Refractive index	58 - 92 % 1,4370 - 1,5233 nD	± 0,2 % ± 0,0003 nD	0,1 % 0,0001 nD	335,-
ORD 85BM	Brix Refractive index	0 - 85 % 1,3330 - 1,5100 nD	± 0,2 % ± 0,0003 nD	0,1 % 0,0001 nD	365,-



Scope of application: Honey

The following models are particularly suitable for the measurement of the "BRIX" value, the water content in honey according to the International Honey Commission (IHC2002) and "degrees Baumé" to determine the relative density of liquids. Alternatively the display can be switched to show the refractive index.

- Beekeeping
- · Honey production

Model KERN	Scales	Measuring range	Accuracy	Division	Price excl. of VAT ex works €
ORD 92HM	Brix Baumé Water content Refractive index	58 - 92 % 38 - 43 °Bé 13 - 25 % 1,4370 - 1,5233 nD	± 0,2 % ± 0,1 °Bé ± 0,1 % ± 0,0003 nD	0,1 % 0,1 °Bé 0,1 % 0,0001 nD	335,-



The following models are particularly suitable to determin the concentration of NaCl (salt) in water. This is often used for the preparation and for the cooking of sauces, bases for pastries, the production of brines (e.g. for white cheese) and the preparation of seafood and marinades for meat. Alternatively the display can be switched to show the refractive index.

The main scope of applications is:

- · Food industry
- Restaurants, and large-scale catering establishment, canteens



Model KERN	Scales	Measuring range	Accuracy	Division	Price excl. of VAT ex works €
ORD 1SM	Salt (NaCl) Refractive index	0 – 28 % 1,3330 – 1,3900 nD	± 0,2 % ± 0,0003 nD	0,1 % 0,0001 nD	305,-
ORD 3SM	Brix Salt (NaCl) Refractive index	0 - 35 % 0 - 28 % 1,3330 - 1,3900 nD	± 0,2 % ± 0,2 % ± 0,0003 nD	0,1 % 0,1 % 0,0001 nD	305,-

Scope of application: Wine

The following models are particularly suitable for the measurement of the sugar content in fruit. It indicates the expected °Alcohol of the fruit. The degree of ripeness of fruit (fruit-sugar) can also be determined, such as e.g. grapes.

The main scope of applications is:

- · Agriculture: Wine-growing (viticulture) and fruit-growing
- Wine-production
- · Must and alcohol production



°Oe = Degree Oechsle, °KMW = Klosterneuburger Most Waage

Model KERN	Scales	Measuring range	Accuracy	Division	Price excl. of VAT ex works €
ORD 2WM	Mass SW Vol. AP Oechsle KMW (Babo)	0 - 35 % 0 - 22 % 30 - 150 °Oe 0 - 25 °KMW	± 0,2 % ± 0,1 % ± 1 °Oe ± 0,1 °KMW	0,1 % 0,1 % 1 °Oe 0,1 °KMW	305,-

Digital refractometer KERN ORD

Scope of application: Urine

The following models are particularly suitable for the measurement of the specific gravity (sg) in urine, the quantitiy of serum (serumproteine) in urine (doping control among athletes), and the refractive index.

The main scope of applications is:

- Hospitals
- Doctor's surgeries / Physicians
- Medical training institutions
- Nursing homes
- Sports medicine (doping test)

Model KERN	Scales	Measuring range	Accuracy	Division	Price excl. of VAT ex works €
ORD 1PM	Serum protein Urine (spec. gravity) Refractive index	0 – 12 g / dl 1,000 – 1,050 sgU 1,3330 – 1,3990 nD	± 0,1 g / dl ± 0,001 sgU ± 0,0003 nD	0,1 g / dl 0,001 sgU 0,001 nD	305,-



Scope of application: Industry / Automotive

The following models are particularly suitable for the measurement and determination of AdBlue, glycol concentration (ethylene EG, propylene PG), battery fluid (BF), urea, the freezing point of fountain solution (CW) and the refractive index. Furthermore these models are suitable for the measurement of thermal exchange systems.

- · Automotive industry: Car-workshops and producers
- Chemical industry
- · Solar industry: Antifreeze monitoring
- Geothermal industry: Brine-concentration-measurement for ground heat
- Forestry / Lumbermen

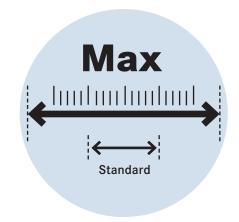
Model KERN	Scales	Measuring range	Accuracy	Division	Price excl. of VAT ex works €
ORD 2UM	EG PG BF CW	-50 - 0 °C -50 - 0 °C 1.00 - 1.50 kg/l -40 - 0 °C	± 0,5 °C ± 0,5 °C ± 0,01 kg/l ± 0,5 °C	0,1 °C 0,1 °C 0,01 kg/l 0,1 °C	305,-
ORD 5UM	EG PG Urea CW	-50 - 0 °C -50 - 0 °C 0 - 40 % -40 - 0 °C	± 0,5 °C ± 0,5 °C ± 0,2 % ± 0,5 °C	0,1 °C 0,1 °C 0,1 % 0,1 °C	305,-
ORD 6US	Urea	0 - 40 %	± 0,2 %	0,1 %	305,-



The following model has a special large measuring range for the refractive index.

The main scope of applications is:

• Universal measuring instrument, especially for applications with extra large measuring ranges



Model KERN	Scales	Measuring range	Accuracy	Division	Price excl. of VAT ex works €
ORD 1RS	Refractive index	1,3330 – 1,5400 nD	± 0,0003 nD	0,0001 nD	395,-

Accessory parts: Digital refractometer - ORD

Model KERN	Description	Price excl. of VAT ex works €
ORA-A1006	Calibration liquid 60,0 % for ORD 92BM and ORD 92HM Content: 2,5 ml	30,-
ORA-A2103	Leather bag for digital refractometer	30,-
ORA-A1001	Calibration liquid 0 % (Destilled Water) Volume: 2,5 ml	30,-



Calibration liquid





Thermometer

Refractive index measurement for pharmacy, laboratories and industry

Features

- The KERN ORT refractometers are universal analog Abbe refractometers.
- The handy and robust design allows the easy, efficient and sustainable use in everyday life
- The integrated scale allows the use in different applications and provides the best possible security to read the measurement results accurately.
- The scope of delivery includes:
- calibration solution
- calibration block
- pipette
- small screwdriver
- cleaning tissue
- · Accessories are available as options

Technical data

- Measurement temperature: 20 $^{\circ}\text{C}$
- · Overall dimensions WxDxH 180x90x240 mm
- Dimensions aluminium box WxDxH 310x120x240 mm
- Packing dimensions WxDxH 350x130x270 mm
- Net weight approx. 1950 g

STANDARD









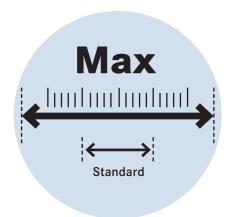


The following model is a simple yet highly reliable Abbe refractometer with a digital thermometer. Liquid, solid and pasty samples can be evaluated. This refractometer is robust, accurate and easy to use. Optionally a solide aluminium case for transport and storage is available. It measures the refractive index (nD).

The main scope of applications is:

- Sugar industry: for example cane sugar
- Pharmacy
- Beverage industry
- Food industry
- · Chemical industry
- Oil industry / Refinery
- Laboratories
- Training

Model KERN	Scales	Measuring range	Accuracy	Division	Price excl. of VAT ex works €
ORT 1RS	Brix Refractive index	0 - 95 % 1,3000 - 1,7000 nD	± 0,1 % ± 0,0002 nD	0,25 % 0,0005 nD	675,-





Accessory parts: Abbe refractometer - ORT

Model KERN	Description	Price excl. of VAT ex works €
ORA-A1102	Aluminium suitcase Dimension: 310x120x240 mm, weight: 1300 g	90,-
ORA-A2266	Digital thermometer	
ORA-A2267	Calibration block for ORT 1RS	35,-
ORA-A1107	Contact liquid: Alpha-Bromonaphthalene for ORT 1RS Volume: 2,5 ml	40,-



Calibration block ORA-A2267



Transport and storage case ORA-A1102

KERN Pictograms



360° rotatable microscope head



Monocular Microscope For the inspection with one eye Infinity system

Zoom magnification

Parallel optical system

fatigue-proof working

Integrated scale

In the eyepiece

USB 2.0

For stereomicroscopes, enables

Integrated USB 2.0 digital camera

Integrated USB 3.0 digital camera

Automatic temperature compesation

Protection against dust and water

The type of protection is shown by the

Ready for battery operation. The battery

230V/50Hz in standard version for EU.

On request GB, AUS or USA version.

Integrated in balance. 230V/50Hz

standard EU. More standards e.g.

The time required to manufacture the

product internally is shown in days in

The warranty period is shown in the

Super Wide Field (Field number at

least Ø 23 mm for 10x eyepiece)

Wide Field (Field number up to

Ø 22 mm for 10x eyepiece)

GB. AUS or USA on request.

Package shipment

Numerical Aperture

SLR camera Single-Lens Reflex camera

Working Distance

the pictogram.

Warranty

pictogram.

type is specified for each device.

Rechargeable battery pack

For measurements between

10 °C and 30 °C

splashes IPxx

Battery operation

Rechargeable set.

Power supply

pictogram

For direct transmitting of the picture to a PC

For direct transmitting of the picture to a PC

Infinity corrected optical system



Binocular Microscope For the inspection with both eyes



Trinocular Microscope For the inspection with both eyes and the additional option for the connection of a camera



Abbe Condense

With high numerical aperture for the concentration and the focusing of light



Halogen illumination For pictures bright and rich in contrast



LED illumination Cold, energy saving and especially

long-life illumination



Incident illumination For non-transparent objects



Transmitting illumination For transparent objects



Fluorescence illumination For stereomicroscopes



Fluorescence illumination for compound microscopes With 100 W mercury lamp and filter



for compound microscopes With 3 W LED illumination and filter

Fluorescence illumination



Phase contrast unit For a higher contrast



Polarising unit To polarise the light

Abbreviations

C-Mount Adapter for the connection of a camera to a trinocular microscope

Frames per second

H(S)WF High (Super) Wide Field

(Eyepiece with high eye point for wearers of glasses)

Long Working Distance

Microscopy, measuring technology and testing services from a single source



Optical instruments catalogue



Medical scales Balances & test service catalogue catalogue



SAUTER measuring equipment catalogue



DAkkS calibration service brochure

KERN – your partner for optical instruments

Dear Customer,

Precision is our business and it has been for more than 170 years.

We are constantly using these years of experience and the very latest know-how to create new products, to help you and your customers carry out your daily work as efficiently as possible.

So we already have a large selection of products on offer - precision balances and industrial scales, medical scales, measuring instruments, test weights and a comprehensive range of calibration services.

In this catalogue we are now expanding our product range to include high-quality microscopes and refractometers.

Over recent years, a specially created department has been working with your requests, market requirements and the latest developments, so that we can offer you a complete, carefully-designed range of devices, which are high-quality and highly-competitive in terms of price.

Comprehensive product details, high-quality materials, durability and ergonomic operation are all in line with the typical KERN "virtues" - quick delivery, large stocks, competent advice, comprehensive pre and after sales service.

Do you have any questions about our range of microscopes and refractometers? Your KERN customer advisers are available at any time to help you further.

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

Albert Sauter, Managing Director

Your advantages



Quick Delivery

3 years warranty

tems under € 400,-: 2 years

Items in stock are sent the same day if orders are placed before 1:00 pm (valid for parcel service delivery within the EC).



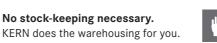
KERN microscopes and refractometers are always an inexpensive alternative. They are durable, uncomplicated and easy to place into operation.

Price performance ratio



of ordered goods to your customer is available, invoice will be issued to you (third party business).

Direct dispatch





Retailer information

Sales conditions

the applicable V.A.T..



All prices are valid as of January 1st 2016 until a new version of the KERN catalogue is released. In Europe, all prices do not include

At KERN there is no minimum order value. For orders less than € 15.00 there is no re-sale discount available. A minimum fee of € 15.00 (net) will be charged for orders less than € 15.00 (net).

Delivery Conditions: we supply ex works Balingen, i.e. the transport costs are invoiced. With our contract logistics partners we always offer you shipping at a good rate. When shipping to islands or other more distant areas, or areas which are difficult to access, the transport costs may possibly be higher, please ask for details. Any goods supplied remain KERN's property until complete payment for the goods sold has been received.



Delivery is usually via courier service.



When you see this symbol by truck, please ask for prices.

Extract from general terms and conditions:

Court of jurisdiction/Legal domicile: 72336 Balingen, Germany; Commercial register N°: HRB 400865, AG Stuttgart; Managing director: Albert Sauter, Martin Sauter. For the full Terms and Conditions, please refer to the website. www.kern-sohn.com/en/kern/agbs.html

Price changes and product changes are likely in individual cases due to product modifications as well as error.

Sale or return: within 14 days of purchase. Not valid for custom processes, such as, for example, special orders.

Warranty: 3 years.

2 years for products with list price ≤ € 400.00 Does not apply to consumables such as batteries, rechargeable battery packs, etc.

Services



Free delivery: all orders from dealers through the KERN Online shop with an order value over € 150.00 (list price) and parcel shipment, within the EU (except of MT, CY) with our parcel service (no pallet shipment) are delivered free of charge.

3 % web discount: Additional discount for dealer orders from the KERN Online shop (only in combination with KERN e-invoice, please ask for details).

KERN DirectCash: The quick, secure COD procedure for protection against non-payment. With the KERN DirectCash COD system, you can safely deliver orders to end customers with unknown credit rating, with no risk of non-payment. Please request further details on this procedure.

After-Sales-Service



Repair services within 1 week at our plant in Balingen, transportation costs are additional. In urgent cases, if requested by customer, a replacement device will be provided until all repairs are completed; please ask.

Price reduction on a new device:

if repair costs exceed the current value of the defective device, a new device will be offered at a discount price. This offer is valid only up to 2 years after warranty expiration.

Spare parts service within 48 hours, transportation costs are additional.

Marketing support



KERN catalogues, brochures, branch prospectuses your own personalised marketing tools

This catalogue and branch prospectuses are available free of charge. A neutral version of the catalogue, without the KERN address imprint, is also available for your marketing activities free of charge (200 pcs., larger quantities on request).

On demand, your company logo and address can be printed on the back of the KERN catalogue free of charge (200 pcs., larger quantities on request). In this way you have your own individual marketing tool. The KERN catalogue branch prospectuses are available in the following languages: DE, GB, FR, IT, ES.

Important notice



Humidity

Our models are not suitable for rooms with a high level of air humidity (condensing). Please observe the applicable electrical regulations.

Miscellaneous



Product pictures printed in catalogue

All product pictures contained in our catalogue show devices similar to our products. Please note that possible technical innovations might be the cause of such deviations.

Accessory for optical instruments

Further extensive accessories for our optical instruments you can also find in the KERN Online shop on www.kern-sohn.com