

4



STEREOMICROSCOPES

Stereo, Stereo-Zoom, Coaxial and Gem Microscopes

4



Side view

Educational Line

Stereo microscope with robust, ergonomic design,
ideal for workshops, schools and training

Features

- With its integrated handle as well as its stable arm curved stand, the KERN OSE-42 has been specially developed for schools and workshops
- The incident and transmitted illumination unit included as standard can be optionally enabled for the very best illumination of your sample. Mobile use is also no problem due to the integrated battery compartment
- Despite its low price it has very good optical characteristics, which enable you to have sharp images over a large field of view
- An turnable objective with predefined magnifications is available to make your working procedures quicker and more efficient

- The eyepieces are fixed in the eyepiece tube, to stop them getting damaged or lost
- A special feature of this adaptable and yet robust microscope series is the stable mechanism of the microscope stand which can be adjusted precisely. It will also impress you with its functionality and ergonomic design
- A large selection of eyepieces as well as various additional external illumination units are available as accessories

Scope of application

- Training, in vitro fertilisation, detection of parasites, zoology and botany, tissue preparation, section, quality control

Applications/Samples

- Samples with focus on three-dimensional impression (depth, thickness), e.g. insects, seeds, circuit boards, components

Technical data

- Optical system: Greenough optics
- Brightness adjustable
- Tube 45° inclined
- Interpupillary distance 55 – 75 mm
- Diopter adjustment: Both-sided
- Overall dimensions W×D×H 200×180×300 mm
- Net weight approx. 2 kg

STANDARD

BINO

LED

IL

TL

BATT

230 V

1 DAY

Model	Standard configuration						Price excl. of VAT ex works €
	Tube	Eyepiece	Field of view mm	Objective	Stand	Illumination	
KERN							
OSE 421	Binocular	WF 10×/ø 20 mm	ø 20	2×/4×	Arm curved	1 W LED (incident); 1 W LED (transmitted)	310,-

Eyepiece

Specifications – Objectives

	Magnification	2×	4×
WF 5×	Total magnification	10×	20×
	Field of view mm	∅ 10	∅ 5
WF 10×	Total magnification	20×	40×
	Field of view mm	∅ 10	∅ 5
WF 15×	Total magnification	30×	60×
	Field of view mm	∅ 7,5	∅ 3,7
WF 20×	Total magnification	40×	80×
	Field of view mm	∅ 6,5	∅ 3,2
Working distance		57 mm	57 mm

Model outfit

Model KERN

Order number

Price/piece
excl. of VAT
ex works
€

		OSE 421		
Eyepieces (30,5 mm)	WF 5×/∅ 16,2 mm	○ ○	OZB-A4101	40,-
	WF 10×/∅ 20 mm	✓ ✓	OZB-A4102	35,-
	WF 15×/∅ 15 mm	○ ○	OZB-A4103	35,-
	WF 20×/∅ 10 mm	○ ○	OZB-A4104	40,-
	WF 10×/∅ 20 mm (reticule 0,1 mm)	○	OZB-A4151	50,-
Stand	Arm curved, with 1 W LED illumination (transmitted + incident)	✓		
Stage plate	Frosted glass/∅ 59,5 mm	✓	OZB-A4815	25,-
	Black-white/∅ 59,5 mm	✓	OZB-A4816	25,-
External illumination	Please find the information about external illumination units in the catalogue on page 83 and on our website www.kern-sohn.com			

✓ = Included with delivery

○ = Option

4



Stage plate black



Stage plate white

Educational Line

The practical and robust product for schools, training centres, the workshop and laboratory

- Features
- With its integrated handle as well as its stable arm curved stand, the KERN OSF-43 has been specially developed for schools and workshops
 - The LED reflected and transmitted illumination included as standard guarantees the very best, continuously dimmable illumination of your sample
 - As well as very good optical characteristics, its ergonomic working surface means that it offers the highest level of convenience in this class
 - A turnable objective with three predefined magnifications is available to make your working procedures quicker and more effective
 - The eyepieces are fixed in the eyepiece tube, to stop them getting damaged or lost

- The ergonomic shape and the stable mechanism which can be adjusted extremely accurately offer a high level of functionality and enable you to work quickly and efficiently with very little effort
- A large selection of eyepieces as well as various additional external illumination units are available as accessories
- A protective dust cover, eye cups, as well as multi-lingual user instructions are included in the scope of delivery
- Please find detailed information in the following model outfit list

- Scope of application
- Training, in vitro fertilisation, detection of parasites, zoology and botany, tissue preparation, section, quality control

- Applications/Samples
- Samples with focus on three-dimensional impression (depth, thickness), e.g. insects, seeds, circuit boards, components

- Technical data
- Optical system: Greenough optics
 - Brightness adjustable (separate)
 - Tube 45° inclined
 - Interpupillary distance 55 - 75 mm
 - Diopter adjustment: One-sided
 - Overall dimensions W×D×H 230×180×275 mm
 - Net weight approx. 2,5 kg

STANDARD

BINO LED IL TL BATT 230 V 1 DAY

Model	Standard configuration						Price excl. of VAT ex works €
	Tube	Eyepiece	Field of view mm	Objective	Stand	Illumination	
KERN							
OSF 438	Binocular	WF 10×/ø 20 mm	ø 20	1×/2×/3×	Arm curved	1 W LED (incident); 0,35 W LED (transmitted)	410,-
OSF 439	Binocular	WF 10×/ø 20 mm	ø 20	1×/2×/4×	Arm curved	1 W LED (incident); 0,35 W LED (transmitted)	410,-

Eyepiece

Specifications – Objectives

	Magnification	1×	2×	3×	4×
WF 5×	Total magnification	5×	10×	15×	20×
	Field of view mm	∅ 20	∅ 10	∅ 6,7	∅ 5
WF 10×	Total magnification	10×	20×	30×	40×
	Field of view mm	∅ 20	∅ 10	∅ 6,7	∅ 5
WF 15×	Total magnification	15×	30×	45×	60×
	Field of view mm	∅ 15	∅ 7,5	∅ 5	∅ 3,7
WF 20×	Total magnification	20×	40×	60×	80×
	Field of view mm	∅ 10	∅ 6,5	∅ 4,3	∅ 3,2
Working distance		57 mm	57 mm	57 mm	57 mm

4

Model outfit

		Model KERN		Order number	Price/piece excl. of VAT ex works €
		OSF 438	OSF 439		
Eyepieces (30,5 mm)	WF 5×/∅ 16,2 mm	○ ○	○ ○	OZB-A4101	40,-
	WF 10×/∅ 20 mm	✓ ✓	✓ ✓	OZB-A4102	35,-
	WF 15×/∅ 15 mm	○ ○	○ ○	OZB-A4103	35,-
	WF 20×/∅ 10 mm	○ ○	○ ○	OZB-A4104	40,-
	WF 10×/∅ 20 mm (reticule 0,1 mm)	○	○	OZB-A4151	50,-
Stand	Arm curved, incl. handle, with LED illumination (0,35 W transmitted + 1 W incident)	✓	✓		
Stage plate	Frosted glass/∅ 59,5 mm	✓	✓	OZB-A4815	25,-
	Black-white/∅ 59,5 mm	✓	✓	OZB-A4816	25,-
External illumination	Please find the information about external illumination units in the catalogue on page 83 and on our website www.kern-sohn.com				

✓ = Included with delivery

○ = Option



Lab Line

The affordable and flexible stereo zoom microscope for laboratories, inspection authorities and quality controls

Features

- The products in the KERN OZL-44 series are stereo zoom microscopes, which will impress you with their easy handling, flexibility as well as their stability and economical price
- The LED reflected and transmitted illumination included as standard guarantees the very best illumination of your sample
- As well as excellent optical characteristics and their large working surface, these models offer the highest level of comfort in this class – ideal for training companies, workshops as well as assembly and repair workstations, e.g. in the electronics industry
- As standard this microscope offers you continuous total magnification of 7,5× – 36×

- The OZL-44 series is available as a binocular version. The eyepieces are fixed in the eyepiece tube, to stop them getting damaged or lost
- The pillar stand offers you the highest level of flexibility and the freedom to remove the microscope head and to integrate it into other modular systems, for example into a universal stand
- A large selection of eyepieces, external illumination units as well as auxiliary objectives are available as accessories
- A protective dust cover, eye cups, as well as multi-lingual user instructions are included in the scope of delivery
- Please find detailed information in the following model outfit list

Scope of application

- In vitro fertilisation, detection of parasites, zoology and botany, tissue preparation, section, quality control

Applications/Samples

- Samples with focus on three-dimensional impression, zoom with variable magnification (depth, thickness), e.g. insects, seeds, circuit boards, components

Technical data

- Optical system: Greenough optics
- Brightness adjustable (separate)
- Tube 45° inclined
- Magnification ratio: 4,8:1
- Interpupillary distance 55 – 75 mm
- Diopter adjustment: Both-sided
- Overall dimensions W×D×H 330×235×380 mm
- Net weight approx. 5 kg

STANDARD

Model	Standard configuration						Price excl. of VAT ex works €
	Tube	Eyepiece	Field of view mm	Objective Zoom	Stand	Illumination	
KERN							
OZL 445	Binocular	WF 10×/ø 20 mm	ø 26,7 – 5,6	0,75× – 3,6×	Pillar style	1 W LED (incident); 0,35 W LED (transmitted)	550,-

OZL 445

Specifications – Objectives

Eyepiece	Magnification	Standard 1,0×	Auxiliary objectives			
			0,5×	0,75×	1,5×	2,0×
WF 5×	Total magnification	3,75× – 18×	1,875× – 9×	2,81× – 13,5×	5,625× – 27×	7,5× – 36×
	Field of view mm	∅ 26 – 6	∅ 60 – 13	∅ 32 – 7	∅ 16 – 4	∅ 12,5 – 3
WF 10×	Total magnification	7,5× – 36×	3,75× – 18×	5,625× – 27×	11,25× – 54×	15× – 72×
	Field of view mm	∅ 26,7 – 5,6	∅ 53,3 – 11,1	∅ 35,5 – 7,4	∅ 17,8 – 3,7	∅ 13,3 – 2,8
WF 15×	Total magnification	11,25× – 54×	5,625× – 27×	8,44× – 40,5×	16,875× – 81×	22,5× – 108×
	Field of view mm	∅ 19 – 4,5	∅ 43 – 9,5	∅ 24 – 5,5	∅ 12 – 3	∅ 9,5 – 2
WF 20×	Total magnification	15× – 72×	7,5× – 36×	56,25× – 54×	22,5× – 108×	30× – 144×
	Field of view mm	∅ 12,5 – 3	∅ 28 – 6	∅ 16 – 3,5	∅ 8 – 2	∅ 6 – 1,5
Working distance		86 mm	178 mm	96 mm	42,5 mm	25,5 mm
Maximum sample height		100 mm	10 mm	60 mm	120 mm	135 mm

4

Model outfit		Model KERN	Order number	Price/piece excl. of VAT ex works €
		OZL 445		
Eyepieces (30,5 mm)	WF 5×/∅ 16,2 mm	○ ○	OZB-A4101	40,–
	WF 10×/∅ 20 mm	✓ ✓	OZB-A4102	35,–
	WF 15×/∅ 15 mm	○ ○	OZB-A4103	35,–
	WF 20×/∅ 10 mm	○ ○	OZB-A4104	40,–
	WF 10×/∅ 20 mm (reticule 0,1 mm)	○	OZB-A4151	50,–
Auxiliary objectives	0,5×	○	OZB-A4201	85,–
	0,75×	○	OZB-A4202	85,–
	1,5×	○	OZB-A4204	85,–
	2,0×	○	OZB-A4205	90,–
	Soldering protection lens	○	OZB-A4251	25,–
Stand	Pillar style, with LED illumination (0,35 W transmitted + 1 W incident)	✓		
Stage plate	Frosted glass/∅ 95 mm	✓	OZB-A4805	25,–
	Black-white/∅ 95 mm	✓	OZB-A4806	25,–
External illumination	Please find the information about external illumination units in the catalogue on page 83 and on our website www.kern-sohn.com			

✓ = Included with delivery

○ = Option



OZL 464
With standard stand



OZL 465
With ring illumination



OZL 467
With handle

Lab Line

The flexible, affordable all-rounder with zoom function for schools, training companies, inspection authorities and laboratories

Features

- The products in the KERN OZL-46 series are stereo zoom microscopes, which will impress you with their quality, easy handling, flexibility as well as their stability and economical price
- The LED reflected and transmitted illumination included as standard guarantees the very best illumination of your sample
- The highlight of the OZL 465/OZL 466 is the strong, continuously dimmable, integrated LED ring illumination in the objective housing, which ensures uniform, shadow-free illumination. An LED transmitted light variant is also included
- As well as excellent optical characteristics and their large working surface, these models offer the highest level of comfort in this class – ideal for training companies, workshops as well as assembly and repair workstations, e.g. in the electronics industry
- As standard this microscope offers you continuous total magnification of 7×–45×

- The KERN OZL-46 series is available as a binocular or trinocular version
- The pillar stand offers you the highest level of flexibility and the freedom to remove the microscope head and to integrate it into other modular systems, for example into a universal stand
- With its integrated handle as well as its stable arm curved stand, the KERN OZL 467/OZL 468 has been specially developed for schools and workshops
- A large selection of eyepieces, external illumination units as well as auxiliary objectives are available as accessories
- A protective dust cover, eye cups, as well as multi-lingual user instructions are included in the scope of delivery
- A C-mount adapter is required to connect a camera to the trinocular version. You can select this adapter from the following model outfit list
- Please find detailed information in the following model outfit list

Scope of application

- In vitro fertilisation, detection of parasites, zoology and botany, tissue preparation, section, quality control

Applications/Samples

- Samples with focus on three-dimensional impression, zoom with variable magnification (depth, thickness), e.g. insects, seeds, circuit boards, components

Technical data

- Optical system: Greenough optics
- Brightness adjustable (separate)
- Tube 45° inclined
- Magnification ratio: 6,4:1
- Light distribution OZL 464/466/468: 100:0
- Interpupillary distance 55 – 75 mm
- Diopter adjustment: Both-sided
- Overall dimensions W×D×H 300×240×420 mm
- Net weight approx. 4 kg

STANDARD



Model	Standard configuration						Price excl. of VAT ex works €
	Tube	Eyepiece	Field of view mm	Objective Zoom	Stand	Illumination	
KERN							
OZL 463	Binocular	HWF 10×/ø 20 mm	ø 28,6 – 4,4	0,7× – 4,5×	Pillar style	3 W LED (incident); 3 W LED (transmitted)	600,-
OZL 464	Trinocular	HWF 10×/ø 20 mm	ø 28,6 – 4,4	0,7× – 4,5×	Pillar style	3 W LED (incident); 3 W LED (transmitted)	670,-
OZL 465	Binocular	HWF 10×/ø 20 mm	ø 28,6 – 4,4	0,7× – 4,5×	Pillar style	3 W LED (incident); 3 W LED (transmitted)	640,-
OZL 466	Trinocular	HWF 10×/ø 20 mm	ø 28,6 – 4,4	0,7× – 4,5×	Pillar style	3 W LED (incident); 3 W LED (transmitted)	690,-
OZL 467	Binocular	HWF 10×/ø 20 mm	ø 28,6 – 4,4	0,7× – 4,5×	Arm curved	3 W LED (incident); 3 W LED (transmitted)	600,-
OZL 468	Trinocular	HWF 10×/ø 20 mm	ø 28,6 – 4,4	0,7× – 4,5×	Arm curved	3 W LED (incident); 3 W LED (transmitted)	660,-

Eyepiece	Specifications – Objectives					
	Magnification	Standard 1,0×	Auxiliary objectives			
			0,5×	0,75×	1,5×	2,0×
HSWF 10×	Total magnification	7× – 45×	3,5× – 22,5×	5,3× – 33,8×	10,5× – 67,5×	14× – 90×
	Field of view mm	∅ 28,6 – 4,4	∅ 57,1 – 8,9	∅ 38,1 – 5,9	∅ 19 – 3	∅ 14,3 – 2,2
HWF 15×	Total magnification	10,5× – 67,5×	5,3× – 33,8×	7,9× – 50,6×	15,5× – 101,3×	21× – 135×
	Field of view mm	∅ 21,4 – 3,3	∅ 42,9 – 6,7	∅ 28,5 – 4,4	∅ 14,3 – 2,2	∅ 10,7 – 1,7
HSWF 20×	Total magnification	14× – 90×	7× – 45×	10,5× – 67,5×	21× – 135×	28× – 180×
	Field of view mm	∅ 14,3 – 2,2	∅ 28,6 – 4,4	∅ 19,1 – 2,9	∅ 9,5 – 1,5	∅ 7,1 – 1,1
HWF 25×	Total magnification	17,5× – 112,5×	8,8× – 56,3×	13,1× – 91,9×	26,3× – 168,8×	35× – 225×
	Field of view mm	∅ 12,9 – 2,0	∅ 25,7 – 4,0	∅ 17,2 – 2,7	∅ 8,6 – 1,3	∅ 6,4 – 1,0
Working distance		105 mm	177 mm	120 mm	47 mm	26 mm
Maximum sample height		140 mm	35 mm	80 mm	165 mm	185 mm

Model outfit		Model KERN						Order number	Price/piece excl. of VAT ex works €
		OZL 463	OZL 464	OZL 465	OZL 466	OZL 467	OZL 468		
Eyepieces (30,0 mm)	HWF 10×/∅ 20 mm	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	OZB-A4631	45,–
	HSWF 15×/∅ 15 mm	○	○	○	○	○	○	OZB-A4632	55,–
	HWF 20×/∅ 10 mm	○	○	○	○	○	○	OZB-A4633	55,–
	HSWF 25×/∅ 9 mm	○	○	○	○	○	○	OZB-A4634	60,–
Auxiliary objectives	0,5×	○	○			○	○	OZB-A4641	90,–
	0,75×	○	○			○	○	OZB-A4644	90,–
	1,5×	○	○			○	○	OZB-A4642	90,–
	2,0×	○	○			○	○	OZB-A4643	90,–
	Soldering protection lens	○	○			○	○	OZB-A4645	40,–
C-Mount	1× (focus adjustable)		✓		✓		✓	OZB-A4809	55,–
	0,3× (focus adjustable)		○		○		○	OZB-A4810	95,–
	0,5× (focus adjustable)		○		○		○	OZB-A4811	105,–
Eyepiece camera adapter	1,0×; for fitting an eyepiece camera to the trinocular connection of the microscope		○		○		○	OZB-A4863	40,–
Stand	Pillar style, with 3 W-LED illumination (transmitted + incident)	✓	✓						
	Pillar style, with 3 W-LED illumination (transmitted)			✓	✓				
	Arm curved, incl. handle, with 3 W-LED illumination (transmitted + incident)					✓	✓		
Ring illumination	Integrated into the microscope head as incident illumination			✓	✓				
Stage plate	Frosted glass/∅ 95 mm	✓	✓	✓	✓	✓	✓	OZB-A4670	25,–
	Black-white/∅ 95 mm	✓	✓	✓	✓	✓	✓	OZB-A4806	25,–
External illumination	Please find the information about external illumination units in the catalogue on page 83 and on our website www.kern-sohn.com								

✓ = Included with delivery

○ = Option



OZL 473

Lab Line

The flexible, affordable all-rounder with flexible incident light for training companies, inspection authorities and laboratories

Features

- The KERN OZL-47 stereo zoom microscope series will impress you with its excellent optical characteristics, easy operation and high level of ergonomic working comfort
- A highlight is the powerful and continuously dimmable integrated LED double gooseneck illumination (incident light), which ensures an individually and quickly adjustable illumination.
- As well as excellent optical characteristics and their large working surface, these models offer the highest level of comfort in this class – ideal for training companies, workshops as well as assembly and repair workstations, e.g. in the electronics industry
- As standard this microscope offers you continuous total magnification of 7×–45×

- The pillar stand offers you the highest level of flexibility and the freedom to remove the microscope head and to integrate it into other modular systems, for example into a universal stand
- A large selection of eyepieces, external illumination units as well as auxiliary objectives are available as accessories
- A protective dust cover, eye cups, as well as multi-lingual user instructions are included in the scope of delivery
- A C-mount adapter is required to connect a camera to the trinocular version. You can select this adapter from the following model outfit list
- Please find detailed information in the following model outfit list

Scope of application

- In vitro fertilisation, detection of parasites, zoology and botany, tissue preparation, section, quality control

Applications/Samples

- Samples with focus on three-dimensional impression, zoom with variable magnification (depth, thickness), e.g. insects, seeds, circuit boards, components

Technical data

- Optical system: Greenough optics
- Brightness adjustable
- Tube 45° inclined
- Magnification ratio: 6,4:1
- Light distribution OZL 474: 100:0
- Interpupillary distance 55 – 75 mm
- Diopter adjustment: Both-sided
- Overall dimensions W×D×H 300×240×420 mm
- Net weight approx. 4 kg

STANDARD

Model	Standard configuration						Price excl. of VAT ex works €
	Tube	Eyepiece	Field of view mm	Objective Zoom	Stand	Illumination	
KERN							
OZL 473	Binocular	HWF 10×/ø 20 mm	ø 28,6 – 4,4	0,7× – 4,5×	Pillar style	3 W LED (incident)	840,-
OZL 474	Trinocular	HWF 10×/ø 20 mm	ø 28,6 – 4,4	0,7× – 4,5×	Pillar style	3 W LED (incident)	930,-

Eyepiece	Magnification	Specifications – Objectives				
		Standard 1,0×	Auxiliary objectives			
			0,5×	0,75×	1,5×	2×
HSWF 10×	Total magnification	7× – 45×	3,5× – 22,5×	5,3× – 33,8×	10,5× – 67,5×	14× – 90×
	Field of view mm	∅ 28,6 – 4,4	∅ 57,1 – 8,9	∅ 38,1 – 5,9	∅ 19 – 3	∅ 14,3 – 2,2
HWF 15×	Total magnification	10,5× – 67,5×	5,3× – 33,8×	7,9× – 50,6×	15,5× – 101,3×	21× – 135×
	Field of view mm	∅ 21,4 – 3,3	∅ 42,9 – 6,7	∅ 28,5 – 4,4	∅ 14,3 – 2,2	∅ 10,7 – 1,7
HSWF 20×	Total magnification	14× – 90×	7× – 45×	10,5× – 67,5×	21× – 135×	28× – 180×
	Field of view mm	∅ 14,3 – 2,2	∅ 28,6 – 4,4	∅ 19,1 – 2,9	∅ 9,5 – 1,5	∅ 7,1 – 1,1
HWF 25×	Total magnification	17,5× – 122,5×	8,8× – 56,3×	13,1× – 91,9×	26,3× – 168,8×	35× – 225×
	Field of view mm	∅ 12,9 – 2	∅ 25,7 – 4	∅ 17,2 – 2,7	∅ 8,6 – 1,3	∅ 6,4 – 1
Working distance		105 mm	177 mm	120 mm	47 mm	26 mm
Maximum sample height		140 mm	35 mm	80 mm	165 mm	185 mm

Model outfit		Model KERN		Order number	Price/piece excl. of VAT ex works €
		OZL 473	OZL 474		
Eyepieces (30,0 mm)	HWF 10×/∅ 20 mm	✓✓	✓✓	OZB-A4631	45,–
	HSWF 15×/∅ 15 mm	○ ○	○ ○	OZB-A4632	55,–
	HWF 20×/∅ 10 mm	○ ○	○ ○	OZB-A4633	55,–
	HSWF 25×/∅ 9 mm	○ ○	○ ○	OZB-A4634	60,–
Auxiliary objectives	0,5×	○	○	OZB-A4641	90,–
	0,75×	○	○	OZB-A4644	90,–
	1,5×	○	○	OZB-A4642	90,–
	2,0×	○	○	OZB-A4643	90,–
	Soldering protection lens	○	○	OZB-A4645	40,–
C-Mount	1× (focus adjustable)		✓	OZB-A4809	55,–
	0,3× (focus adjustable)		○	OZB-A4810	95,–
	0,5× (focus adjustable)		○	OZB-A4811	105,–
Eyepiece camera adapter	1,0×; for fitting an eyepiece camera to the trinocular connection of the microscope	○	○	OZB-A4863	40,–
Stand	Pillar style, with 3 W-LED illumination (incident)	✓	✓		
Stage plate	Black-white/∅ 95 mm	✓	✓	OZB-A4806	25,–
External illumination	Please find the information about external illumination units in the catalogue on page 83 and on our website www.kern-sohn.com				

✓ = Included with delivery

○ = Option



Lab Line

Stereo zoom microscope with halogen illumination, for the laboratory, training centres, quality control or agriculture

Features

- The KERN OZL-45 stereo zoom microscope series will impress you with its excellent optical characteristics, easy operation and high level of ergonomic working comfort
- The Halogen incident and transmitted illumination included as standard guarantees the very best illumination of your sample
- The high-quality optics, together with a large working surface offers the highest level of comfort for your applications
- As standard this microscope offers you continuous total magnification of 7,5×-50×
- The KERN OZL-45 series is available as a binocular version

- The pillar stand offers you the highest level of flexibility and the freedom to remove the microscope head and to integrate it into other modular systems, for example into a universal stand
- A large selection of eyepieces, external illumination units as well as auxiliary objectives are available as accessories
- A protective dust cover, eye cups, as well as multi-lingual user instructions are included in the scope of delivery
- Please find detailed information in the following model outfit list

Scope of application

- In vitro fertilisation, detection of parasites, zoology and botany, tissue preparation, section, quality control

Applications/Samples

- Samples with focus on three-dimensional impression, zoom with variable magnification (depth, thickness), e.g. insects, seeds, circuit boards, components

Technical data

- Optical system: Greenough optics
- Brightness adjustable
- Tube 45° inclined
- Magnification ratio: 6,7:1
- Interpupillary distance 55 – 75 mm
- Diopter adjustment: Both-sided
- Overall dimensions W×D×H 330×270×460 mm
- Net weight approx. 5 kg

STANDARD

Model	Standard configuration						Price excl. of VAT ex works €
	Tube	Eyepiece	Field of view mm	Objective Zoom	Stand	Illumination	
KERN							
OZL 451	Binocular	HSWF 10×/ø 23 mm	ø 33 – 5	0,75× – 5,0×	Pillar style	10 W Halogen (incident) 10 W Halogen (transmitted)	760,-

Eyepiece	Specifications – Objectives				
	Magnification	Standard 1,0×	Auxiliary objectives		
			0,5×	0,75×	2,0×
HWF 5×	Total magnification	3,75× – 25×	1,875× – 12,5×	2,813× – 18,75×	7,5× – 50×
	Field of view mm	∅ 31 – 4,6	∅ 61,3 – 9,2	∅ 41,3 – 6,1	∅ 16 – 2,5
HSWF 10×	Total magnification	7,5× – 50×	3,75× – 25×	5,625× – 37,5×	15× – 100×
	Field of view mm	∅ 33 – 5	∅ 65 – 10	∅ 44 – 6,7	∅ 16 – 2,5
HWF 15×	Total magnification	11,25× – 75×	5,625× – 37,5×	8,438× – 56,25×	22,5× – 150×
	Field of view mm	∅ 24 – 4,2	∅ 48 – 8,5	∅ 32 – 5,6	∅ 12 – 2
HSWF 20×	Total magnification	15× – 100×	7,5× – 50×	11,25× – 75×	30× – 200×
	Field of view mm	∅ 20 – 3,5	∅ 40 – 7	∅ 26,7 – 4,7	∅ 10 – 1,8
HWF 25×	Total magnification	18,75× – 125×	9,375× – 62,5×	14,063× – 93,75×	37,5× – 255×
	Field of view mm	∅ 15,8 – 2,4	∅ 31,5 – 4,8	∅ 24,1 – 3,2	∅ 7,9 – 1,2
Working distance		113 mm	177 mm	117 mm	35 mm
Maximum sample height		120 mm	60 mm	90 mm	165 mm

Model outfit		Model KERN	Order number	Price/piece excl. of VAT ex works €
		OZL 451		
Eyepieces (30,0 mm)	HWF 5×/∅ 23,2 mm	○ ○	OZB-A4112	45,–
	HSWF 10×/∅ 23 mm	✓ ✓	OZB-A4118	45,–
	HWF 15×/∅ 15 mm	○ ○	OZB-A4119	45,–
	HSWF 20×/∅ 14,5 mm	○ ○	OZB-A4120	70,–
	HWF 25×/∅ 11,7 mm	○ ○	OZB-A4121	70,–
Auxiliary objectives	0,5×	○	OZB-A4209	135,–
	0,75×	○	OZB-A4210	135,–
	2,0×	○	OZB-A4206	130,–
Stand	Pillar style, with 12 V/10 W Halogen Illumination (transmitted + incident)	✓		
Stage plate	Frosted glass/∅ 95 mm	✓	OZB-A4805	25,–
	Black-white/∅ 95 mm	✓	OZB-A4806	25,–
Illumination	10 W spare bulb (transmitted + incident)	✓	OZB-A4804	25,–
Mechanical stage (Pre-assembling on request)	Stage size W×D 180×155 mm, Travel 75×55 mm, for transmitted and incident illumination	○	OZB-A4605	260,–
External illumination	Please find the information about external illumination units in the catalogue on page 83 and on our website www.kern-sohn.com			
		✓ = Included with delivery		○ = Option

4



Dimmable, integrated LED ring illumination

Lab Line

The practical and flexible stereo zoom microscope with integrated LED ring illumination and large zoom range

Features

- The KERN OZL-456 stereo zoom microscope series will impress you with its excellent optical characteristics, easy operation and its integrated LED ring illumination unit
- The highlight of the KERN OZL-456 is the strong, continuously dimmable, integrated LED ring illumination in the objective housing, which ensures uniform, shadow-free illumination. An LED transmitted light variant is also included.
- With its built-in, top-quality optics and powerful, integrated LED illumination unit, this model is a special all-rounder for all areas of application.
- As standard, this microscope offers you continuous total magnification of 7,5× – 50×

- As standard, the KERN OZL-45R series is provided as a binocular version with 10× eyepieces with a field of view with a diameter of 23 mm
- The arm curved stand gives you a large working area as well as a precise adjustment mechanism
- A large selection of eyepieces as well as auxiliary objectives are available as accessories
- A protective dust cover, eye cups, as well as multi-lingual user instructions are included in the scope of delivery
- Please find detailed information in the following model outfit list

Scope of application

- In vitro fertilisation, detection of parasites, zoology and botany, tissue preparation, section, quality control

Applications/Samples

- Samples with focus on three-dimensional impression, zoom with variable magnification (depth, thickness), e.g. insects, seeds, circuit boards, components

Technical data

- Optical system: Greenough optics
- Incident illumination dimmable
- Tube 45° inclined
- Magnification ratio: 6,7:1
- Interpupillary distance 55 – 75 mm
- Diopter adjustment: Both-sided
- Overall dimensions W×D×H 320×275×420 mm
- Net weight approx. 4,5 kg

STANDARD

360°

BINO

LED

IL

TL

ZOOM

230 V

1 DAY

Model	Standard configuration						Price excl. of VAT ex works €
	Tube	Eyepiece	Field of view mm	Objective Zoom	Stand	Illumination	
KERN							
OZL 456	Binocular	HSWF 10×/ø 23 mm	ø 33 – 5	0,75× – 5,0×	Arm curved	1 W LED (incident); 0,21 W LED (transmitted)	870,-

Eyepiece

Specifications – Objectives

	Magnification	Standard 1,0×
HWF 5×	Total magnification	3,75× – 25×
	Field of view mm	∅ 31 – 4,6
HSWF 10×	Total magnification	7,5× – 50×
	Field of view mm	∅ 33 – 5
HWF 15×	Total magnification	11,25× – 75×
	Field of view mm	∅ 24 – 4,2
HSWF 20×	Total magnification	15× – 100×
	Field of view mm	∅ 20 – 3,5
HWF 25×	Total magnification	18,75× – 125×
	Field of view mm	∅ 15,8 – 2,4
Working distance		113 mm
Maximum sample height		45 mm

4

Model outfit

Model KERN

Order number

Price/piece
excl. of VAT
ex works
€

		OZL 456		
Eyepieces (30,0 mm)	HWF 5×/∅ 23,2 mm	○ ○	OZB-A4112	45,–
	HSWF 10×/∅ 23 mm	✓✓	OZB-A4118	45,–
	HWF 15×/∅ 15 mm	○ ○	OZB-A4119	45,–
	HSWF 20×/∅ 14,5 mm	○ ○	OZB-A4120	70,–
	HWF 25×/∅ 11,7 mm	○ ○	OZB-A4121	70,–
Stand	Arm curved, with LED illumination (0,21 W transmitted + 1 W incident)	✓		
Stage plate	Frosted glass/∅ 95 mm	✓	OZB-A4805	25,–
	Black-white/∅ 95 mm	✓	OZB-A4806	25,–
Mechanical stage (Pre-assembling on request)	Stage size W×D 180×155 mm, Travel 75×55 mm, for transmitted and incident illumination	○	OZB-A4605	260,–
External illumination	Please find the information about external illumination units in the catalogue on page 83 and on our website www.kern-sohn.com			

✓ = Included with delivery

○ = Option



Lab Line

First-class optics and strong illumination combined with a high level of flexibility

Features

- The KERN OZM series is a range of excellent stereo zoom microscopes with above-average optical features
- The ergonomic shape allows a simple, effortless working over a period of several hours
- The extraordinarily strong and continuously dimmable 3 W LED reflected and transmitted illumination ensures a flexible and particularly good level of illumination for your sample
- With its large working distance, an extra large field of view and its brilliant resolution, the KERN OZM provides sharp, high-contrast, colour-true images
- The zoom objective gives you continuous magnification from 7,5×-45×
- There is a choice of a binocular model as well as a trinocular model for connecting a camera for documentation purposes and for quality reports

- The pillar stand is particularly flexible due to its variable and sturdy adjustment mechanism and therefore enables ergonomic working procedures
- A large selection of eyepieces, (universal) stands, a darkfield kit, external illumination units as well as auxiliary objectives and more are available as accessories
- A protective dust cover, eye cups, as well as multi-lingual user instructions are included in the scope of delivery
- A C-mount adapter is required to connect a camera to the trinocular version. You can select this adapter from the following model outfit list
- Please find detailed information in the following model outfit list

Scope of application

- In vitro fertilisation, detection of parasites, zoology and botany, tissue preparation, section, quality control, electronics and semiconductor industry, assembly and repair

Applications/Samples

- Samples with focus on three-dimensional impression, zoom with variable magnification (depth, thickness), e.g. insects, seeds, circuit boards, components

Technical data

- Optical system: Greenough optics
- Brightness adjustable (separate)
- Tube 45° inclined
- Magnification ratio: 6,4:1
- Light distribution OZM 543/544: 100:0
- Interpupillary distance 52 – 76 mm
- Diopter adjustment: Both-sided
- Overall dimensions W×D×H 330×285×440 mm
- Net weight approx. 4,5 kg

STANDARD										OPTION	
360°	BINO	TRINO	LED	IL	TL	ZOOM	230 V	1 DAY		SCALE	

Model	Standard configuration						Price excl. of VAT ex works €
	Tube	Eyepiece	Field of view mm	Objective Zoom	Stand	Illumination	
KERN							
OZM 542	Binocular	HSWF 10×/ø 23 mm	ø 32,8 – 5,1	0,7× – 4,5×	Pillar style	3 W LED (incident); 3 W LED (transmitted)	1390,-
OZM 544	Trinocular	HSWF 10×/ø 23 mm	ø 32,8 – 5,1	0,7× – 4,5×	Pillar style	3 W LED (incident); 3 W LED (transmitted)	1730,-

Eyepiece	Specifications – Objectives					
	Magnification	Standard 1,0×	Auxiliary objectives			
			0,5×	0,7×	1,5×	2×
HSWF 10×	Total magnification	7× – 45×	3,5× – 22,5×	4,9× – 31,5×	10,5× – 67,5×	14× – 90×
	Field of view mm	∅ 32,8 – 5,1	∅ 65,7 – 10,2	∅ 46,9 – 7,3	∅ 21,9 – 3,4	∅ 16,4 – 2,6
SWF 15×	Total magnification	10,5× – 67,5×	5,3× – 33,8×	7,4× – 47,2×	15,8× – 101,3×	21× – 135×
	Field of view mm	∅ 24,3 – 3,8	∅ 48,6 – 7,6	∅ 34,7 – 5,4	∅ 16,2 – 2,5	∅ 12,1 – 1,9
SWF 20×	Total magnification	14× – 90×	7× – 45×	9,8× – 63×	21× – 135×	28× – 180×
	Field of view mm	∅ 20 – 3,1	∅ 40 – 6,2	∅ 28,6 – 4,4	∅ 13,3 – 2,1	∅ 10 – 1,6
SWF 30×	Total magnification	21× – 135×	10,5× – 67,5×	14,7× – 94,5×	31,5× – 202,5×	42× – 270×
	Field of view mm	∅ 12,9 – 2	∅ 25,7 – 4	∅ 18,4 – 2,9	∅ 8,6 – 1,6	∅ 6,4 – 1
Working distance		110 mm	195 mm	145 mm	50 mm	35 mm
Maximum sample height		130 mm	30 mm	65 mm	160 mm	175 mm

Model outfit		Model KERN		Order number	Price / piece excl. of VAT ex works €
		OZM 542	OZM 544		
Eyepieces (30,0 mm)	HSWF 10× / ∅ 23 mm	✓✓	✓✓	OZB-A5503	70,–
	SWF 15× / ∅ 17 mm	○ ○	○ ○	OZB-A5504	75,–
	SWF 20× / ∅ 14 mm	○ ○	○ ○	OZB-A5505	85,–
	SWF 30× / ∅ 9 mm	○ ○	○ ○	OZB-A5506	120,–
	HSWF 10× / ∅ 23 mm (reticule 0,1 mm)	○	○	OZB-A5512	125,–
	SWF 15× / ∅ 17 mm (reticule 0,05 mm)	○	○	OZB-A5513	140,–
	SWF 20× / ∅ 14 mm (reticule 0,05 mm)	○	○	OZB-A5514	140,–
Achromatic auxiliary objectives	0,5×	○	○	OZB-A5612	160,–
	0,7×	○	○	OZB-A5613	160,–
	1,5×	○	○	OZB-A5615	160,–
	2,0×	○	○	OZB-A5616	165,–
	Soldering protection lens	○	○	OZB-A5614	50,–
C-Mount	0,3× (focus adjustable)		○	OZB-A5701	140,–
	0,5× (focus adjustable)		○	OZB-A5702	140,–
	1,0× (focus adjustable)		○	OZB-A5703	105,–
	1,0× (with micrometer) only in combination with OZB-A5703		○	OZB-A5704	295,–
	For SLR cameras (Nikon)		○	OZB-A5706	295,–
	For SLR cameras (Olympus)		○	OZB-A5707	295,–
	For SLR cameras (Canon)		○	OZB-A5708	295,–
Darkfield unit	Darkfield unit	○	○	OZB-A4601	80,–
Object clamp	Object clamp	○	○	OBB-A6205	75,–
Stand	Pillar style, without illumination				
	Pillar style, with 3 W LED illumination (transmitted + incident)	✓	✓		
	Please find more stands in the catalogue on page 80 and on our website www.kern-sohn.com				
Stage plate	Frosted glass / ∅ 94,5 mm	✓	✓	OZB-A5192	25,–
	Black-white / ∅ 94,5 mm	✓	✓	OZB-A5191	25,–
	Clear glass / ∅ 94,5 mm	○	○	OZB-A5190	25,–
Mechanical stage (Pre-assembling on request)	Stage size W×D 188×160 mm, Travel 76×65 mm, for transmitted and incident illumination	○	○	OZB-A5781	240,–
	Stage size W×D 180×175 mm, Travel 100×86 mm, for incident illumination only	○	○	OZB-A5782	270,–
External illumination	Please find the information about external illumination units in the catalogue on page 83 and on our website www.kern-sohn.com				

✓ = Included with delivery

○ = Option



Lab Line

Professional and powerful – thanks to its extremely large magnification range, strong illumination and first-class optics

Features

- The KERN OZP stereo zoom microscope stands out through its above-average magnification range and its robust shape which is also ergonomic, it enables effortless, simple working over a period of several hours
- The KERN OZP series is available as a strong, continuously adjustable 3 W LED reflected and transmitted light variant for the very best illumination of your sample
- With its large working distance, an extra large field of view and brilliant resolution, the KERN OZP provides sharp, high-contrast and colour-true images
- As standard this microscope offers you continuous total magnification of 6× - 55×
- There is a choice of a binocular model as well as a trinocular model for connecting a camera for documentation purposes and for quality reports

- The pillar stand is particularly flexible due to its variable and sturdy adjustment mechanism and therefore enables ergonomic working procedures
- A large selection of eyepieces, (universal) stands, a darkfield kit, external illumination units as well as auxiliary objectives and more are available as accessories
- A protective dust cover, eye cups, as well as multi-lingual user instructions are included in the scope of delivery
- A C-mount adapter is required to connect a camera to the trinocular version. You can select this adapter from the following model outfit list
- Please find detailed information in the following model outfit list

Scope of application

- Zoology and botany, quality control, electronics and semiconductor industry, assembly and repair

Applications/Samples

- Samples with focus on three-dimensional impression, zoom with variable magnification (depth, thickness), e.g. insects, seeds, circuit boards, components

Technical data

- Optical system: Greenough optics
- Brightness adjustable (separate)
- Tube: 35° inclined
- Magnification ratio: 9,2:1
- Light distribution OZP 557/558: 100:0
- Interpupillary distance 52 – 76 mm
- Diopter adjustment: Both-sided
- Overall dimensions W×D×H 330×285×470 mm
- Net weight approx. 4,5 kg

STANDARD

OPTION

Model	Standard configuration						Price excl. of VAT ex works €
	Tube	Eyepiece	Field of view mm	Objective Zoom	Stand	Illumination	
KERN							
OZP 556	Binocular	HSWF 10×/ø 23 mm	ø 38,3 – 4,2	0,6× – 5,5×	Pillar style	3 W LED (incident); 3 W LED (transmitted)	1530,-
OZP 558	Trinocular	HSWF 10×/ø 23 mm	ø 38,3 – 4,2	0,6× – 5,5×	Pillar style	3 W LED (incident); 3 W LED (transmitted)	1880,-

Eyepiece	Specifications – Objectives					
	Magnification	Standard 1,0×	Auxiliary objectives			
			0,5×	0,7×	1,5×	2×
HSWF 10×	Total magnification	6× – 55×	3× – 27,5×	4,2× – 38,5×	9× – 82,5×	12× – 110×
	Field of view mm	∅ 38,3 – 4,2	∅ 76,7 – 8,4	∅ 54,8 – 6	∅ 25,6 – 2,8	∅ 19,2 – 2,1
SWF 15×	Total magnification	9× – 82,5×	4,5× – 41,25×	6,3× – 57,75×	13,5× – 123,75×	18× – 165×
	Field of view mm	∅ 28,3 – 3,1	∅ 56,7 – 6,2	∅ 40,5 – 4,4	∅ 18,9 – 2,1	∅ 14,2 – 1,5
SWF 20×	Total magnification	12× – 110×	6× – 55×	8,4× – 77×	18× – 165×	24× – 220×
	Field of view mm	∅ 23,3 – 2,5	∅ 46,7 – 5,1	∅ 33,3 – 3,6	∅ 15,6 – 1,7	∅ 11,7 – 1,3
SWF 30×	Total magnification	18× – 165×	9× – 82,5×	12,6× – 115,5×	27× – 247,5×	36× – 330×
	Field of view mm	∅ 15 – 1,6	∅ 30 – 3,3	∅ 21,4 – 2,3	∅ 10 – 1,1	∅ 7,5 – 0,8
Working distance		108 mm	195 mm	145 mm	50 mm	35 mm
Maximum sample height		110 mm	10 mm	45 mm	140 mm	150 mm

Model outfit		Model KERN		Order number	Price/piece excl. of VAT ex works €
		OZP 556	OZP 558		
Eyepieces (30,0 mm)	HSWF 10×/∅ 23 mm	✓✓	✓✓	OZB-A5503	70,–
	SWF 15×/∅ 17 mm	○ ○	○ ○	OZB-A5504	75,–
	SWF 20×/∅ 14 mm	○ ○	○ ○	OZB-A5505	85,–
	SWF 30×/∅ 9 mm	○ ○	○ ○	OZB-A5506	120,–
	HSWF 10×/∅ 23 mm (reticule 0,1 mm)	○	○	OZB-A5512	125,–
	SWF 15×/∅ 17 mm (reticule 0,05 mm)	○	○	OZB-A5513	140,–
	SWF 20×/∅ 14 mm (reticule 0,05 mm)	○	○	OZB-A5514	140,–
Achromatic auxiliary objectives	0,5×	○	○	OZB-A5612	160,–
	0,7×	○	○	OZB-A5613	160,–
	1,5×	○	○	OZB-A5615	160,–
	2,0×	○	○	OZB-A5616	165,–
	Soldering protection lens	○	○	OZB-A5614	50,–
C-Mount	0,3× (focus adjustable)		○	OZB-A5701	140,–
	0,5× (focus adjustable)		○	OZB-A5702	140,–
	1,0× (focus adjustable)		○	OZB-A5703	105,–
	1,0× (with micrometer) only in combination with OZB-A5703		○	OZB-A5704	295,–
	For SLR cameras (Nikon)		○	OZB-A5706	295,–
	For SLR cameras (Olympus)		○	OZB-A5707	295,–
	For SLR cameras (Canon)		○	OZB-A5708	295,–
Darkfield unit	Darkfield unit	○	○	OZB-A4601	80,–
Object clamp	Object clamp	○	○	OBB-A6205	75,–
Stand	Pillar style, without illumination				
	Pillar style, with 3 W LED illumination (transmitted + incident)	✓	✓		
	Please find more stands in the catalogue on page 80 and on our website www.kern-sohn.com				
Stage plate	Frosted glass/∅ 94,5 mm		✓	OZB-A5192	25,–
	Black-white/∅ 94,5 mm	✓	✓	OZB-A5191	25,–
	Clear glass/∅ 94,5 mm		○	OZB-A5190	25,–
Mechanical stage (Pre-assembling on request)	Stage size W×D 188×160 mm, Travel 76×65 mm, for incident and transmitted illumination	○	○	OZB-A5781	240,–
	Stage size W×D 180×175 mm, Travel 100×86 mm, for incident illumination only	○	○	OZB-A5782	270,–
External illumination	Please find the information about external illumination units in the catalogue on page 83 and on our website www.kern-sohn.com				

✓ = Included with delivery

○ = Option



Professional Line

Professional stereo zoom microscope with parallel optics for excellent images, depth of field, contrast and fatigue-free working

Features

- The KERN OZS series is a special, high-quality stereo zoom microscope with parallel optics for demanding analyses
- The KERN OZS series is available as a strong, continuously adjustable 3 W LED reflected and transmitted light variant for the very best illumination of your sample
- The parallel optical system is a high-quality optical system and provides excellent images with the best contrast, colour and depth of field with fatigue-free working. Refocusing is also only necessary in very few cases when magnifying the zoom
- The continuously adjustable magnification range from 8 to 50 times magnification means that you can work quickly and effectively
- As standard this microscope offers you continuous total magnification of 8× - 80×

- The pillar stand is particularly flexible due to its variable and sturdy adjustment mechanism and therefore enables ergonomic working procedures
- A large selection of eyepieces, (universal) stands, a darkfield kit, external illumination units as well as auxiliary objectives and more are available as accessories
- A protective dust cover, eye cups, as well as multi-lingual user instructions are included in the scope of delivery
- A C-mount adapter is required to connect a camera to the trinocular version. You can select this adapter from the following model outfit list
- Please find detailed information in the following model outfit list

Scope of application

- In vitro fertilisation, detection of parasites, zoology and botany, tissue preparation, section, quality control, electronics and semiconductor industry, assembly and repair

Applications/Samples

- Samples with focus on three-dimesnional impression, zoom with variable magnification (depth, thickness), e.g. insects, seeds, circuit boards, components

Technical data

- Optical system: Parallel optics
- Brightness adjustable (separate)
- Tube 45° inclined
- Magnification ratio: 10:1
- Light distribution 100:0
- Interpupillary distance 52 – 76 mm
- Diopter adjustment: Both-sided
- Overall dimensions W×D×H 305×300×540 mm
- Net weight approx. 5,5 kg

STANDARD

360°

TRINO

LED

IL

TL

ZOOM

PARALLEL

230 V

1 DAY

OPTION

SCALE

Model	Standard configuration						Price excl. of VAT ex works €
	Tube	Eyepiece	Field of view mm	Objective Zoom	Stand	Illumination	
KERN							
OZS 574	Trinocular	HWF 10×/ø 22 mm	ø 27,5–2,75	0,8× – 8×	Pillar style	3 W LED (incident); 3 W LED (transmitted)	3640,-

Eyepiece	Specifications – Objectives				
	Magnification	Standard Plan 1,0×	Achr. objective 0,5×	Achr. objective 0,7×	Achr. objective 1,5× (Auxiliary)
HWF 10×	Total magnification	8× – 80×	4× – 40×	5,6× – 56×	12× – 120×
	Field of view mm	∅ 27,5 – 2,75	∅ 55 – 5,5	∅ 39,3 – 3,93	∅ 18,33 – 1,83
SWF 15×	Total magnification	12× – 120×	6× – 60×	8,4× – 84×	18× – 180×
	Field of view mm	∅ 21,25 – 2,13	∅ 42,5 – 4,25	∅ 30,36 – 3,04	∅ 14,17 – 1,42
SWF 20×	Total magnification	16× – 160×	8× – 80×	11,2× – 112×	24× – 240×
	Field of view mm	∅ 17,5 – 1,75	∅ 35 – 3,5	∅ 25 – 2,5	∅ 11,67 – 1,17
SWF 30×	Total magnification	24× – 240×	12× – 120×	16,8× – 168×	36× – 360×
	Field of view mm	∅ 11,25 – 1,13	∅ 22,5 – 2,25	∅ 16,1 – 1,61	∅ 7,5 – 0,75
Working distance		91 mm	186 mm	135 mm	40 mm
Maximum sample height		100 mm	30 mm	80 mm	125 mm

Model outfit		Model KERN	Order number	Price/piece excl. of VAT ex works €
		OZS 574		
Eyepieces (30,0 mm)	HWF 10×/∅ 22 mm	✓✓	OZB-A5502	75,–
	SWF 15×/∅ 17 mm	○ ○	OZB-A5504	75,–
	SWF 20×/∅ 14 mm	○ ○	OZB-A5505	85,–
	SWF 30×/∅ 9 mm	○ ○	OZB-A5506	120,–
	HWF 10×/∅ 22 mm (reticule 0,1 mm)	○	OZB-A5511	130,–
	SWF 15×/∅ 17 mm (reticule 0,05 mm)	○	OZB-A5513	140,–
	SWF 20×/∅ 14 mm (reticule 0,05 mm)	○	OZB-A5514	140,–
Plan achromatic objective	1,0×	✓	OZB-A5603	640,–
Achromatic objectives	0,5×	○	OZB-A5601	230,–
	0,7×	○	OZB-A5602	230,–
	1,5× Only in combination with OZB-A5603	○	OZB-A5604	300,–
Trinocular beamsplitter	Division 100:0	✓	OZB-A5401	660,–
	Division 50:50	○	OZB-A5402	660,–
C-Mount	0,3× (focus adjustable)	○	OZB-A5701	140,–
	0,5× (focus adjustable)	○	OZB-A5702	140,–
	1,0× (focus adjustable)	○	OZB-A5703	105,–
	1,0× (with micrometer) only in combination with OZB-A5703	○	OZB-A5704	295,–
	For SLR cameras (Nikon)	○	OZB-A5706	295,–
	For SLR cameras (Olympus)	○	OZB-A5707	295,–
	For SLR cameras (Canon)	○	OZB-A5708	295,–
Darkfield unit	Darkfield unit	○	OZB-A4601	80,–
Object clamp	Object clamp	○	OBB-A6205	75,–
Stand	Pillar style, with 3 W LED illumination (transmitted + incident)	✓		
Stage plate	Frosted glass/∅ 94,5 mm	✓	OZB-A5192	25,–
	Black-white/∅ 94,5 mm	✓	OZB-A5191	25,–
	Clear glass/∅ 94,5 mm	○	OZB-A5190	25,–
Mechanical stage (Pre-assembling on request)	Stage size W×D 188×160 mm, Travel 76×65 mm, for incident and transmitted illumination	○	OZB-A5781	240,–
	Stage size W×D 180×175 mm, Travel 100×86 mm, for incident illumination only	○	OZB-A5782	270,–
External illumination	Please find the information about external illumination units in the catalogue on page 83 and on our website www.kern-sohn.com			

✓ = Included with delivery

○ = Option



Side view

Lab Line
The specialist for jewellers and the gem industry

Features

- The KERN OZG series has been specially developed for jewellers and mineral observations in the gem industry. Precious stones and gems can be checked and handled with this stereo zoom microscope
- You have a choice of a strong halogen transmitted illumination unit as well as halogen reflected and transmitted illumination variants, each with an additional frontal illumination
- As standard this microscope offers you continuous total magnification of 7× - 36×

- As well as very good optical characteristics, this model forms an ideal package with its dark field unit with object clamp which is included in the scope of delivery
- The KERN OZG 493 is fitted with a pole stand which has both integrated bright halogen light units with incident and transmitted illumination, as well as additional front lighting
- A protective dust cover, eye cups, as well as multi-lingual user instructions are included in the scope of delivery
- Please find detailed information in the following model outfit list

Scope of application

- Jewellers and gem industry

Applications/Samples

- Samples with focus on three-dimensional impression (depth, thickness), zoom for variable magnification, special stand for processing workpieces e.g. gems, components, precious stones

Technical data

- Optical system: Greenough optics
- Brightness adjustable
- Tube 45° inclined
- Interpupillary distance 55 - 75 mm
- Diopter adjustment: Both-sided
- Magnification ratio: 5,1:1
- Overall dimensions W×D×H 310×170×350 mm
- Net weight approx. 5 kg

STANDARD

360°

BINO

HAL

IL

TL

ZOOM

230 V

1 DAY

Model	Standard configuration						Price excl. of VAT ex works €
	Tube	Eyepiece	Field of view mm	Objective Zoom	Stand	Illumination	
KERN							
OZG 493	Binocular	WF 10×/ø 20 mm	ø 26,7 – 5,6	0,7× – 3,6×	Pillar style	10 W Halogen (incident) 10 W Halogen (transmitted) 10 W Fluorescence (front illumination)	610,-

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

Model outfit		Model KERN	Order number	Price/piece excl. of VAT ex works €
		OZG 493		
Eyepieces (30,5 mm)	WF 5×/∅ 16,2 mm	○ ○	OZB-A4101	40,–
	WF 10×/∅ 20 mm	✓ ✓	OZB-A4102	35,–
	WF 15×/∅ 15 mm	○ ○	OZB-A4103	35,–
	WF 20×/∅ 10 mm	○ ○	OZB-A4104	40,–
Darkfield unit	Darkfield unit	✓	OZB-A4601	80,–
Object clamp	Object clamp (steel wire)	✓	OZB-A4604	35,–
Stand	Pillar style, with 12 V/10 W Halogen (transmitted + incident) and 10 W Fluorescent illumination (front)	✓		
Stage plate	Frosted glass/∅ 95 mm	✓	OZB-A4805	25,–
	Black-white/∅ 95 mm	✓	OZB-A4806	25,–
Illumination	10 W spare bulb (transmitted + incident)	✓	OZB-A4804	25,–

✓ = Included with delivery

○ = Option