

# 4

## STEREO MICROSCOPES

Stereo, Stereo-Zoom, Coaxial and Gem Microscopes





Side view

4

## Educational Line

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

#### Features

- With its integrated handle as well as its stable mechanical stand, the KERN OSE 421 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
- A 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
- 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
- Tube 45° inclined
- Interpupillary distance: 55 mm – 75 mm
- Diopter adjustment, both-sided
- Overall dimensions W×D×H 200×180×300 mm
- Net weight approx. 2,2 kg

STANDARD



Model

Tube

Eyepiece

Field of view

Objective

Stand

Illumination

KERN

OSE 421

Binocular

WF 10x/Ø 20 mm

20 mm

2x / 4x

mechanical

1 W LED (incident), 1 W LED (transmitted)

Eyepiece	Specifications - Objectives		
	Magnification	2x	4x
WF 5x	Total magnification	10x	20x
	Field of view mm	Ø 10	Ø 5
WF 10x	Total magnification	20x	40x
	Field of view mm	Ø 10	Ø 5
WF 15x	Total magnification	30x	60x
	Field of view mm	Ø 7,5	Ø 3,7
WF 20x	Total magnification	40x	80x
	Field of view mm	Ø 6,5	Ø 3,2
<b>Working distance</b>		57 mm	57 mm

Model outfit		Model KERN	Order number
		OSE 421	
Eyepieces (30,5 mm)	WF 5x/Ø 16,2 mm	○○	OZB-A4101
	WF 10x/Ø 20 mm	✓✓	OZB-A4102
	WF 15x/Ø 15 mm	○○	OZB-A4103
	WF 20x/Ø 10 mm	○○	OZB-A4104
	WF 10x/Ø 20 mm (with scale 0,1 mm)	○	OZB-A4151
Stand	Mechanical, with 1 W LED illumination (transmitted + incident)	✓	
Stand insert	Frosted glass/Ø 59,5 mm	✓	OZB-A4815
	Black-white/Ø 59,5 mm	✓	OZB-A4816

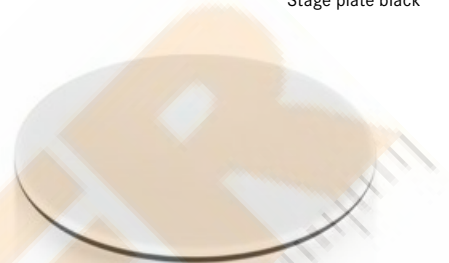
✓ = included with the delivery

○ = Option

Further accessories and spare parts  
see *internet*



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 mechanical stand, the KERN OSF-43 has been specially developed for schools and workshops
- The LED incident and transmitted illumination included as standard guarantees the very best, continuously dimmable illumination for 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 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

- 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 mm – 75 mm
- Diopter adjustment, one-sided
- Overall dimensions W×D×H 230×180×275 mm
- Net weight approx. 2,4 kg

STANDARD



Model	Tube	Eyepiece	Field of view	Objective	Stand	Illumination
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KERN

OSF 438	Binocular	WF 10x/Ø 20 mm	20 mm	1x / 2x / 3x	mechanical	1 W LED (incident), 0,35 W LED (transmitted)
OSF 439	Binocular	WF 10x/Ø 20 mm	20 mm	1x / 2x / 4x	mechanical	1 W LED (incident), 0,35 W LED (transmitted)

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

Model outfit		Model KERN		Order number
		OSF 438	OSF 439	
Eyepieces (30,5 mm)	WF 5x/Ø 16,2 mm	○	○	OZB-A4101
	WF 10x/Ø 20 mm	✓	✓	OZB-A4102
	WF 15x/Ø 15 mm	○	○	OZB-A4103
	WF 20x/Ø 10 mm	○	○	OZB-A4104
	WF 10x/Ø 20 mm (with scale 0,1 mm)	○	○	OZB-A4151
<b>Stand</b>	Mechanical, incl. handle, with LED illumination (0,35 W transmitted + 1 W incident)	✓	✓	
<b>Stand insert</b>	Frosted glass/Ø 59,5 mm	✓	✓	OZB-A4815
	Black-white/Ø 59,5 mm	✓	✓	OZB-A4816

✓ = included with the delivery

○ = Option

Further accessories and spare parts  
see *internet*



Lab Line

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

Features

- The KERN OZL-44 is a stereo zoom microscope, which will impress you with the easy handling, flexibility as well as the stability and economical price
- The LED incident 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 7,5x - 36x

- 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 (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 mm - 75 mm
- Diopter adjustment, both-sided
- Overall dimensions WxDxH 230x235x360 mm
- Net weight approx. 4,4 kg

STANDARD



Model	Tube	Eyepiece	Field of view	Objective Zoom	Stand	Illumination
<b>KERN</b> OZL 445	Binocular	WF 10x/Ø 20 mm	Ø 28 - 6 mm	0,75x - 3,6x	pillar	1 W LED (incident), 0,35 W LED (transmitted)

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

Model outfit		Model KERN	Order number
		OZL 445	
Eyepieces (30,5 mm)	WF 5x/Ø 16,2 mm	○	OZB-A4101
	WF 10x/Ø 20 mm	✓	OZB-A4102
	WF 15x/Ø 15 mm	○	OZB-A4103
	WF 20x/Ø 10 mm	○	OZB-A4104
	WF 10x/Ø 20 mm (with scale 0,1 mm)	○	OZB-A4151
Auxiliary objectives	0,5x	○	OZB-A4201
	0,75x	○	OZB-A4202
	1,5x	○	OZB-A4204
	2x	○	OZB-A4205
	Soldering protection lens	○	OZB-A4251
Stand	Pillar, with LED illumination (0,35 W transmitted + 1 W incident)	✓	
Stand insert	Frosted glass/Ø 95 mm	✓	OZB-A4805
	Black-white/Ø 95 mm	✓	OZB-A4806

✓ = included with the delivery

○ = Option

Further accessories and spare parts  
see *Internet*



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 easy handling, flexibility as well as their stability and economical price.
- The LED incident and transmitted illumination included as standard guarantees the very best illumination of your sample
- The highlight of the KERN 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 7x – 45x

- 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 mechanical 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 (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
- OZL 464/466/468: Beam path distribution: 0:100
- Interpupillary distance: 55 mm – 75 mm
- Diopter adjustment, both-sided
- Overall dimensions W×D×H 300×240×420 mm
- Net weight approx. 4,2 kg

#### STANDARD



Model	Tube	Eyepiece	Field of view	Objective Zoom	Stand	Illumination
<b>KERN</b>						
OZL 463	Binocular	HWF 10x/Ø 20 mm	Ø 28,6 – 4,4 mm	0,7x - 4,5x	pillar	3 W LED (incident + transmitted)
OZL 464	Trinocular	HWF 10x/Ø 20 mm	Ø 28,6 – 4,4 mm	0,7x - 4,5x	pillar	3 W LED (incident + transmitted)
OZL 465	Binocular	HWF 10x/Ø 20 mm	Ø 28,6 – 4,4 mm	0,7x - 4,5x	pillar	3 W LED (incident + transmitted)
OZL 466	Trinocular	HWF 10x/Ø 20 mm	Ø 28,6 – 4,4 mm	0,7x - 4,5x	pillar	3 W LED (incident + transmitted)
OZL 467	Binocular	HWF 10x/Ø 20 mm	Ø 28,6 – 4,4 mm	0,7x - 4,5x	mechanical	3 W LED (incident + transmitted)
OZL 468	Trinocular	HWF 10x/Ø 20 mm	Ø 28,6 – 4,4 mm	0,7x - 4,5x	mechanical	3 W LED (incident + transmitted)

Eyepiece	Specifications - Objectives					
	Magnification	Standard	Auxiliary objectives			
			1,0x	0,5x	0,75x	1,5x
HSWF 10x	Total magnification	7x - 45x	3,5x - 22,5x	5,3x - 33,8x	10,5x - 67,5x	14x - 90x
	Field of view mm	Ø 28,6 - 4,4	Ø 57,1 - 8,9	Ø 38,1 - 5,9	Ø 19 - 3	Ø 14,3 - 2,2
HWF 15x	Total magnification	10,5x - 67,5x	5,3x - 33,8x	7,9x - 50,6x	15,5x - 101,3x	21x - 135x
	Field of view mm	Ø 21,4 - 3,3	Ø 42,9 - 6,7	Ø 28,5 - 4,4	Ø 14,3 - 2,2	Ø 10,7 - 1,7
HSWF 20x	Total magnification	14x - 90x	7x - 45x	10,5x - 67,5x	21x - 135x	28x - 180x
	Field of view mm	Ø 14,3 - 2,2	Ø 28,6 - 4,4	Ø 19,1 - 2,9	Ø 9,5 - 1,5	Ø 7,1 - 1,1
HWF 25x	Total magnification	17,5x - 112,5x	8,8x - 56,3x	13,1x - 91,9x	26,3x - 168,8x	35x - 225x
	Field of view mm	Ø 12,9 - 2,0	Ø 25,7 - 4,0	Ø 17,2 - 2,7	Ø 8,6 - 1,3	Ø 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
		OZL 463	OZL 464	OZL 465	OZL 466	OZL 467	OZL 468	
Eyepieces (30 mm)	HWF 10x/Ø 20 mm	✓	✓	✓	✓	✓	✓	OZB-A4631
	HWF 15x/Ø 15 mm	○	○	○	○	○	○	OZB-A4632
	HWF 20x/Ø 10 mm	○	○	○	○	○	○	OZB-A4633
	HWF 25x/Ø 10 mm	○	○	○	○	○	○	OZB-A4634
Auxiliary objectives	0,5x	○	○			○	○	OZB-A4641
	1,5x	○	○			○	○	OZB-A4642
	2x	○	○			○	○	OZB-A4643
	0,75x	○	○			○	○	OZB-A4644
	Soldering protection lens	○	○			○	○	OZB-A4646
C-Mount	1x (focus adjustable)		✓		✓		✓	OZB-A4809
	0,3x (focus adjustable)		○		○		○	OZB-A4810
	0,5x (focus adjustable)		○		○		○	OZB-A4811
Eyepiece camera adapter	1,0x; for fitting an eyepiece camera to the trinocular connection of the microscope		○		○		○	OZB-A4863
Stand	Pillar, with 3 W LED illumination (transmitted + incident)	✓	✓					
	Pillar, with 3 W LED illumination (transmitted)			✓	✓			
	mechanical, incl. handle with 3 W LED illumination (transmitted + incident)					✓	✓	
Ring illumination	Integrated into the microscope head as incident illumination			✓	✓			
Stand insert	Frosted glass/Ø 95 mm	✓	✓	✓	✓	✓	✓	OZB-A4670
	Black-white/Ø 95 mm	✓	✓	✓	✓	✓	✓	OZB-A4806

✓ = included with the delivery

○ = Option

Further accessories and spare parts  
see *internet*



OZL 473

## Lab Line

### The flexible, affordable all-rounder with flexible incident illumination for training workshops, inspection authorities and laboratories

#### Features

- The products in the KERN OZL-47 series are stereo zoom microscopes, which will impress you with their easy handling, flexibility as well as their stability and economical price.
- A highlight is the powerful and infinitely dimmable integrated LED double swan neck illumination unit (incident), which ensures individual illumination which can be adjusted quickly
- 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 7x – 45x

- 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 (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
- OZL 474: Beam path distribution: 0:100
- Interpupillary distance: 55 mm – 75 mm
- Diopter adjustment, both-sided
- Overall dimensions W×D×H 300×240×420 mm
- Net weight approx. 4,2 kg

STANDARD



Model	Tube	Eyepiece	Field of view	Objective Zoom	Stand	Illumination
<b>KERN</b>						
<b>OZL 473</b>	Binocular	HWF 10x/Ø 20 mm	Ø 28,6 – 4,4 mm	0,7x – 4,5x	pillar	3 W LED (incident)
<b>OZL 474</b>	Trinocular	HWF 10x/Ø 20 mm	Ø 28,6 – 4,4 mm	0,7x – 4,5x	pillar	3 W LED (incident)

Eyepiece	Specifications - Objectives					
	Magnification	Standard	Auxiliary objectives			
			1,0x	0,5x	0,75x	1,5x
HSWF 10x	Total magnification	7x - 45x	3,5x - 22,5x	5,3x - 33,8x	10,5x - 67,5x	14x - 90x
	Field of view mm	Ø 28,6 - 4,4	Ø 57,1 - 8,9	Ø 38,1 - 5,9	Ø 19 - 3	Ø 14,3 - 2,2
HWF 15x	Total magnification	10,5x - 67,5x	5,3x - 33,8x	7,9x - 50,6x	15,5x - 101,3x	21x - 135x
	Field of view mm	Ø 21,4 - 3,3	Ø 42,9 - 6,7	Ø 28,5 - 4,4	Ø 14,3 - 2,2	Ø 10,7 - 1,7
HSWF 20x	Total magnification	14x - 90x	7x - 45x	10,5x - 67,5x	21x - 135x	28x - 180x
	Field of view mm	Ø 14,3 - 2,2	Ø 28,6 - 4,4	Ø 19,1 - 2,9	Ø 9,5 - 1,5	Ø 7,1 - 1,1
HWF 25x	Total magnification	17,5x - 122,5x	8,8x - 56,3x	13,1x - 91,9x	26,3x - 168,8x	35x - 225x
	Field of view mm	Ø 12,9 - 2	Ø 25,7 - 4	Ø 17,2 - 2,7	Ø 8,6 - 1,3	Ø 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
		OZL 473	OZL 474	
		Eyepieces (30 mm)	HWF 10x/Ø 20 mm	
HWF 15x/Ø 15 mm	○○		○○	OZB-A4632
HWF 20x/Ø 10 mm	○○		○○	OZB-A4633
HWF 25x/Ø 10 mm	○○		○○	OZB-A4634
Auxiliary objectives	0,5x	○	○	OZB-A4641
	0,75x	○	○	OZB-A4644
	1,5x	○	○	OZB-A4642
	2x	○	○	OZB-A4643
	Soldering protection lens	○	○	OZB-A4646
C-Mount	1x (focus adjustable)		✓	OZB-A4809
	0,3x (focus adjustable)		○	OZB-A4810
	0,5x (focus adjustable)		○	OZB-A4811
Eyepiece camera adapter	1,0x; for fitting an eyepiece camera to the trinocular connection of the microscope	○	○	OZB-A4863
Stand	Pillar, with 3 W LED illumination (incident)	✓	✓	
Stand insert	Black-white/Ø 95 mm	✓	✓	OZB-A4806

✓ = included with the delivery

○ = Option

Further accessories and spare parts  
see *internet*



Lab Line

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

**Features**

- The KERN OZL 451 stereo zoom microscope 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 7,5x - 50x

- 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 (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 mm - 75 mm
- Diopter adjustment, both-sided
- Overall dimensions WxDxH 330x270x460 mm
- Net weight approx. 4,6 kg

STANDARD



Model	Tube	Eyepiece	Field of view	Objective Zoom	Stand	Illumination
<b>KERN</b> OZL 451	Binocular	HSWF 10x/Ø 23 mm	Ø 33 - 5 mm	0,75x - 5x	pillar	10 W Halogen (incident + transmitted)

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

Model outfit		Model KERN	Order number
		OZL 451	
<b>Eyepieces (30 mm)</b>	HWF 5x/Ø 23,2 mm	○	OZB-A4112
	HSWF 10x/Ø 23 mm	✓	OZB-A4118
	HWF 15x/Ø 15 mm	○	OZB-A4119
	HSWF 20x/Ø 14,5 mm	○	OZB-A4120
	HWF 25x/Ø 11,7 mm	○	OZB-A4121
<b>Auxiliary objectives</b>	0,5x	○	OZB-A4209
	0,75x	○	OZB-A4210
	2x	○	OZB-A4206
<b>Stand</b>	Pillar, with 12 V/10 W Halogen Illumination (transmitted + incident)	✓	
<b>Stand insert</b>	Frosted glass/Ø 95 mm	✓	OZB-A4805
	Black-white/Ø 95 mm	✓	OZB-A4806
<b>Illumination</b>	10 W spar bulb (transmitted + incident)	✓	OZB-A4804
<b>Mechanical stage (Pre-assembling on request)</b>	Stage size B×T 180×155 mm, Travel 75×55 mm, for transmitted and incident illumination	○	OZB-A4605

✓ = included with the delivery

○ = Option

Further accessories and spare parts  
see *internet*



Infinitely dimmable integrated LED ring illumination in the lens housing

## 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 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 7,5x – 50x

- As standard, the KERN OZL 456 is provided as a binocular version with 10x 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 (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 mm – 75 mm
- Diopter adjustment, both-sided
- Overall dimensions W×D×H 320×275×420 mm
- Net weight approx. 4,6 kg

#### STANDARD



Model	Tube	Eyepiece	Field of view	Objective Zoom	Stand	Illumination
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<b>KERN</b>						
<b>OZL 456</b>	Binocular	HSWF 10x/Ø 23 mm	Ø 33 – 5 mm	0,75x – 5x	mechanical	1 W LED (incident), 0,21 W LED (transmitted)

Eyepiece		Specifications - Objectives	
		Magnification	Standard
		1,0x	
<b>HWF 5x</b>	Total magnification	3,75x - 25x	
	Field of view mm	Ø 31 - 4,6	
<b>HSWF 10x</b>	Total magnification	7,5x - 50x	
	Field of view mm	Ø 33 - 5	
<b>HWF 15x</b>	Total magnification	11,25x - 75x	
	Field of view mm	Ø 24 - 4,2	
<b>HSWF 20x</b>	Total magnification	15x - 100x	
	Field of view mm	Ø 20 - 3,5	
<b>HWF 25x</b>	Total magnification	18,75x - 125x	
	Field of view mm	Ø 15,8 - 2,4	
<b>Working distance</b>		113 mm	
<b>Maximum sample height</b>		45 mm	

Model outfit		Model KERN	Order number
		OZL 456	
<b>Eyepieces (30 mm)</b>	HWF 5x/Ø 23,2 mm	○○	OZB-A4112
	HSWF 10x/Ø 23 mm	✓✓	OZB-A4118
	HWF 15x/Ø 15 mm	○○	OZB-A4119
	HSWF 20x/Ø 14,5 mm	○○	OZB-A4120
	HWF 25x/Ø 11,7 mm	○○	OZB-A4121
<b>Stand</b>	mechanical, with LED lighting (0,21 W transmitted + 1 W incident)	✓	OZB-A4341
<b>Stand insert</b>	Frosted glass/Ø 95 mm	✓	OZB-A4805
	Black-white/Ø 95 mm	✓	OZB-A4806
<b>Mechanical stage</b> (Pre-assembling on request)	Stage size B×T 180×155 mm, Travel 75×55 mm, for transmitted and incident illumination	○	OZB-A4605

✓ = included with the delivery

○ = Option

Further accessories and spare parts  
see *internet*



OZM 542



OZM 544

## Lab Line

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

#### Features

- The KERN OZM-5 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 3W LED incident 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.
- As standard this microscope offers you continuous total magnification of 7x - 45x
- 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, LCD/LED electronics, semiconductor technology, assembly and repair

#### 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
- Magnification ratio 6,4:1
- OZM 544: Beam path distribution: 0:100
- Interpupillary distance: 52 mm - 76 mm
- Diopter adjustment, both-sided
- Overall dimensions W×D×H 330×285×440 mm
- Net weight approx. 4,8 kg

#### STANDARD



#### OPTION



#### Model

Tube

Eyepiece

Field of view

Objective  
Zoom

Stand

Illumination

#### KERN

Model	Tube	Eyepiece	Field of view	Objective Zoom	Stand	Illumination
OZM 542	Binocular	HSWF 10x/Ø 23 mm	Ø 32,8 - 5,1 mm	0,7x - 4,5x	pillar	3 W LED (incident + transmitted)
OZM 544	Trinocular	HSWF 10x/Ø 23 mm	Ø 32,8 - 5,1 mm	0,7x - 4,5x	pillar	3 W LED (incident + transmitted)

Eyepiece	Specifications - Objectives					
	Magnification	Standard	Auxiliary objectives			
			1,0x	0,5x	0,7x	1,5x
HSWF 10x	Total magnification	7x - 45x	3,5x - 22,5x	4,9x - 31,5x	10,5x - 67,5x	14x - 90x
	Field of view mm	Ø 32,8 - 5,1	Ø 65,7 - 10,2	Ø 46,9 - 7,3	Ø 21,9 - 3,4	Ø 16,4 - 2,6
SWF 15x	Total magnification	10,5x - 67,5x	5,3x - 33,8x	7,4x - 47,2x	15,8x - 101,3x	21x - 135x
	Field of view mm	Ø 24,3 - 3,8	Ø 48,6 - 7,6	Ø 34,7 - 5,4	Ø 16,2 - 2,5	Ø 12,1 - 1,9
SWF 20x	Total magnification	14x - 90x	7x - 45x	9,8x - 63x	21x - 135x	28x - 180x
	Field of view mm	Ø 20 - 3,1	Ø 40 - 6,2	Ø 28,6 - 4,4	Ø 13,3 - 2,1	Ø 10 - 1,6
SWF 30x	Total magnification	21x - 135x	10,5x - 67,5x	14,7x - 94,5x	31,5x - 202,5x	42x - 270x
	Field of view mm	Ø 12,9 - 2	Ø 25,7 - 4	Ø 18,4 - 2,9	Ø 8,6 - 1,6	Ø 6,4 - 1
Working distance		110 mm	195 mm	145 mm	58 mm	35 mm
Maximum sample height		130 mm	30 mm	65 mm	160 mm	175 mm

Model outfit	Model KERN		Order number	
	OZM 542	OZM 544		
Eyepieces (30 mm)	HSWF 10x/Ø 23 mm	✓✓	✓✓	OZB-A5503
	SWF 15x/Ø 17 mm	○○	○○	OZB-A5504
	SWF 20x/Ø 14 mm	○○	○○	OZB-A5505
	SWF 30x/Ø 9 mm	○○	○○	OZB-A5506
	HSWF 10x/Ø 23 mm (reticule 0,1 mm)	○	○	OZB-A5512
	SWF 15x/Ø 17 mm (reticule 0,05 mm)	○	○	OZB-A5513
	SWF 20x/Ø 14 mm (reticule 0,05 mm)	○	○	OZB-A5514
Achromatic auxiliary objectives	0,5x	○	○	OZB-A5612
	0,7x	○	○	OZB-A5613
	1,5x	○	○	OZB-A5615
	2x	○	○	OZB-A5616
	Soldering protection lens	○	○	OZB-A5614
C-Mount	0,3x (focus adjustable)		○	OZB-A5701
	0,5x (focus adjustable)		○	OZB-A5702
	1x (focus adjustable)		○	OZB-A5703
	1,0x (with micrometer) only in combination with OZB-A5703		○	OZB-A5704
Darkfield unit		○	○	OZB-A4601
Object clamp		○	○	OBB-A6205
Stand	Pillar, with 3 W LED illumination (transmission + incident)	✓	✓	
Stand insert	Frosted glass/Ø 94,5 mm	✓	✓	OZB-A5192
	Black-white/Ø 94,5 mm	✓	✓	OZB-A5191
	Clear glass/Ø 94,5 mm	○	○	OZB-A5190
Mechanical stage (Pre-assembling on request)	Stage size B×T 188×160 mm, Travel 76×65 mm, for transmitted and incident illumination	○	○	OZB-A5781
	Stage size B×T 180×175 mm, Travel 100×86 mm, for incident illumination only	○	○	OZB-A5782

✓ = included with the delivery

○ = Option

Further accessories and spare parts  
see *Internet*



OZP 556



OZP 558

## 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 3W 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 its brilliant resolution, the KERN OZP provides sharp, high-contrast, colour-true images.
- As standard this microscope offers you continuous total magnification of 6x – 55x
- 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, LCD/LED electronics, semiconductor technology, assembly and repair

### 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 35° inclined
- Magnification ratio 9,2:1
- OZP 558: Beam path distribution: 0:100
- Interpupillary distance: 52 mm – 76 mm
- Diopter adjustment, both-sided
- Overall dimensions W×D×H 330×285×470 mm
- Net weight approx. 4,8 kg

#### STANDARD



#### OPTION



Model	Tube	Eyepiece	Field of view	Objective Zoom	Stand	Illumination
<b>KERN</b>						
<b>OZP 556</b>	Binocular	HSWF 10x/Ø 23 mm	Ø 35 – 4,2 mm	0,6x – 5,5x	pillar	3 W LED (incident + transmitted)
<b>OZP 558</b>	Trinocular	HSWF 10x/Ø 23 mm	Ø 38,3 – 4,2 mm	0,6x – 5,5x	pillar	3 W LED (incident + transmitted)

Eyepiece	Specifications - Objectives					
	Magnification	Standard	Auxiliary objectives			
			1,0x	0,5x	0,7x	1,5x
<b>HSWF 10x</b>	Total magnification	6x - 55x	3x - 27,5x	4,2x - 38,5x	9x - 82,5x	12x - 110x
	Field of view mm	Ø 38,3 - 4,2	Ø 76,7 - 8,4	Ø 54,8 - 6	Ø 25,6 - 2,8	Ø 19,2 - 2,1
<b>SWF 15x</b>	Total magnification	9x - 82,5x	4,5x - 41,25x	6,3x - 57,75x	13,5x - 123,75x	18x - 165x
	Field of view mm	Ø 28,3 - 3,1	Ø 56,7 - 6,2	Ø 40,5 - 4,4	Ø 18,9 - 2,1	Ø 14,2 - 1,5
<b>SWF 20x</b>	Total magnification	12x - 110x	6x - 55x	8,4x - 77x	18x - 165x	24x - 220x
	Field of view mm	Ø 23,3 - 2,5	Ø 46,7 - 5,1	Ø 33,3 - 3,6	Ø 15,6 - 1,7	Ø 11,7 - 1,3
<b>SWF 30x</b>	Total magnification	18x - 165x	9x - 82,5x	12,6x - 115,5x	27x - 247,5x	36x - 330x
	Field of view mm	Ø 15 - 1,6	Ø 30 - 3,3	Ø 21,4 - 2,3	Ø 10 - 1,1	Ø 7,5 - 0,8
<b>Working distance</b>		108 mm	195 mm	145 mm	58 mm	35 mm
<b>Maximum sample height</b>		110 mm	10 mm	45 mm	140 mm	150 mm

Model outfit	Model KERN		Order number	
	OZP 556	OZP 558		
<b>Eyepieces (30 mm)</b>	HSWF 10x/Ø 23 mm	✓✓	✓✓	OZB-A5503
	SWF 15x/Ø 17 mm	○	○	OZB-A5504
	SWF 20x/Ø 14 mm	○	○	OZB-A5505
	SWF 30x/Ø 9 mm	○	○	OZB-A5506
	HSWF 10x/Ø 23 mm (reticule 0,1 mm)	○	○	OZB-A5512
	SWF 15x/Ø 17 mm (reticule 0,05 mm)	○	○	OZB-A5513
	SWF 20x/Ø 14 mm (reticule 0,05 mm)	○	○	OZB-A5514
<b>Achromatic auxiliary objectives</b>	0,5x	○	○	OZB-A5612
	0,7x	○	○	OZB-A5613
	1,5x	○	○	OZB-A5615
	2x	○	○	OZB-A5616
	Soldering protection lens	○	○	OZB-A5614
<b>C-Mount</b>	0,3x (focus adjustable)		○	OZB-A5701
	0,5x (focus adjustable)		○	OZB-A5702
	1x (focus adjustable)		○	OZB-A5703
	1,0x (with micrometer) only in combination with OZB-A5703		○	OZB-A5704
<b>Darkfield unit</b>		○	○	OZB-A4601
<b>Object clamp</b>		○	○	OBB-A6205
<b>Stand</b>	Pillar, with 3 W LED illumination (transmission + incident)	✓	✓	
	Frosted glass/Ø 94,5 mm		✓	OZB-A5192
<b>Stand insert</b>	Black-white/Ø 94,5 mm	✓	✓	OZB-A5191
	Clear glass/Ø 94,5 mm		○	OZB-A5190
<b>Mechanical stage (Pre-assembling on request)</b>	Stage size B×T 188×160 mm, Travel 76×65 mm, for transmitted and incident illumination	○	○	OZB-A5781
	Stage size B×T 180×175 mm, Travel 100×86 mm, for incident illumination only	○	○	OZB-A5782

✓ = included with the delivery

○ = Option

Further accessories and spare parts  
see *Internet*



### Professional Line

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

#### Features

- The KERN OZS 574 is a special, high-quality stereo zoom microscope with parallel optics for demanding analyses
- The KERN OZS 574 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.
- As standard this microscope offers you continuous total magnification of 8x - 80x
- As standard, the KERN OZS 574 is trinocular and is therefore equipped 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, LCD/LED electronics, semiconductor technology, 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: Parallel optics
- Brightness adjustable (separate)
- Tube 45° inclined
- Magnification ratio 10,0:1
- Beam path distribution: 0:100
- Interpupillary distance: 52 mm - 76 mm
- Diopter adjustment, both-sided
- Overall dimensions W×D×H 305×300×540 mm
- Net weight approx. 6 kg

Further accessories and spare parts  
see [Internet](#)

STANDARD



OPTION



Model	Tube	Eyepiece	Field of view	Objective Zoom	Stand	Illumination
<b>KERN</b> OZS 574	Trinocular	HWF 10x/Ø 22 mm	Ø 27,5 - 2,75 mm	0,8x - 8x	pillar	3 W LED (incident + transmitted)

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

Model outfit	Model KERN		Order number
	OZS	574	
Eyepieces (30 mm)	HWF 10x/Ø 22 mm	✓✓	OZB-A5502
	SWF 15x/Ø 17 mm	○○	OZB-A5504
	SWF 20x/Ø 14 mm	○○	OZB-A5505
	SWF 30x/Ø 9 mm	○○	OZB-A5506
	HWF 10x/Ø 22 mm (reticule 0,1 mm)	○	OZB-A5511
	SWF 15x/Ø 17 mm (reticule 0,05 mm)	○	OZB-A5513
	SWF 20x/Ø 14 mm (reticule 0,05 mm)	○	OZB-A5514
<b>Plan achromatic objective</b>	1x	✓	OZB-A5603
<b>Achromatic objectives</b>	0,5x	○	OZB-A5601
	0,7x	○	OZB-A5602
	1,5x, Only in combination with OZB-A5603	○	OZB-A5604
<b>Trinocular beamsplitter</b>	Division 100:0	✓	OZB-A5401
	Division 50:50	○	OZB-A5402
<b>C-Mount</b>	0,3x (focus adjustable)	○	OZB-A5701
	0,5x (focus adjustable)	○	OZB-A5702
	1x (focus adjustable)	○	OZB-A5703
	1,0x (with micrometer) only in combination with OZB-A5703	○	OZB-A5704
<b>Darkfield unit</b>		○	OZB-A4601
<b>Object clamp</b>		○	OBB-A6205
<b>Stand</b>	Pillar, with 3 W LED illumination (transmission + incident)	✓	
	Frosted glass/Ø 94,5 mm	✓	OZB-A5192
<b>Stand insert</b>	Black-white/Ø 94,5 mm	✓	OZB-A5191
	Clear glass/Ø 94,5 mm	○	OZB-A5190
<b>Mechanical stage (Pre-assembling on request)</b>	Stage size B×T 188×160 mm, Travel 76×65 mm, for transmitted and incident illumination	○	OZB-A5781
	Stage size B×T 180×175 mm, Travel 100×86 mm, for incident illumination only	○	OZB-A5782

✓ = included with the delivery

○ = Option



Side view

## Lab Line

### The specialist for jewellers and the gem industry

#### Features

- The KERN OZG 493 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
- As standard this microscope offers you continuous total magnification of 7x - 36x
- As well as very good optical characteristics, these models form an ideal package with their 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

- There is a range of eyepieces available as accessory options
- 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
- Magnification ratio 5,1:1
- Interpupillary distance: 55 mm - 75 mm
- Diopter adjustment, both-sided
- Overall dimensions WxDxH 310x170x350 mm
- Net weight approx. 6 kg

STANDARD



Model	Tube	Eyepiece	Field of view	Objective Zoom	Stand	Illumination
<b>KERN</b>						
<b>OZG 493</b>	Binocular	WF 10x/Ø 20 mm	Ø 28 - 5,6 mm	0,7x - 3,6x	pillar	10 W Halogen (incident + transmitted) 10 W Fluorescence (front illumination)

ONLY WHILE STOCKS LAST

Eyepiece		Specifications - Objectives	
		Magnification	Standard
		1,0x	
<b>WF 5x</b>	Total magnification	3,75x - 18x	
	Field of view mm	Ø 26 - 6	
<b>WF 10x</b>	Total magnification	7,5x - 36x	
	Field of view mm	Ø 26,7 - 5,6	
<b>WF 15x</b>	Total magnification	11,25x - 54x	
	Field of view mm	Ø 19 - 4,5	
<b>WF 20x</b>	Total magnification	15x - 72x	
	Field of view mm	Ø 12,5 - 3	
<b>Working distance</b>		86 mm	
<b>Model outfit</b>		<b>Model KERN</b>	<b>Order number</b>
		<b>OZG 493</b>	
<b>Eyepieces (30,5 mm)</b>	WF 5x/Ø 16,2 mm	○○	OZB-A4101
	WF 10x/Ø 20 mm	✓✓	OZB-A4102
	WF 15x/Ø 15 mm	○○	OZB-A4103
	WF 20x/Ø 10 mm	○○	OZB-A4104
<b>Darkfield unit</b>		✓	OZB-A4601
<b>Object clamp</b>		✓	OZB-A4604
<b>Stand</b>		✓	
<b>Stand insert</b>	Frosted glass/Ø 95 mm	✓	OZB-A4805
	Black-white/Ø 95 mm	✓	OZB-A4806
<b>Illumination</b>		✓	OZB-A4804

✓ = included with the delivery

○ = Option

Further accessories and spare parts  
see *internet*

# JUST SURFACED!



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