Stereo Zoom Microscope KERN OZP-5

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-dimesnional 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: 360° | BINO | TRINO | LED | IL | TL | ZOOM | 230 V | 1 DAY

OPTION: SCALE

Model	Standard configuration					
	Tube	Eyepiece	Field of view	Objective	Stand	Illumination
KERN			mm	Zoom		
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)
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)

Stereo Zoom Microscope KERN OZP-5

Eyepiece	Specifications – Objectives					
	Magnification	**Standard**	**Auxiliary objectives**			
		1,0×	**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
		OZP 556	**OZP 558**	
Eyepieces (30,0 mm)	HSWF 10×/⌀ 23 mm	✓✓	✓✓	OZB-A5503
	SWF 15×/⌀ 17 mm	○○	○○	OZB-A5504
	SWF 20×/⌀ 14 mm	○○	○○	OZB-A5505
	SWF 30×/⌀ 9 mm	○○	○○	OZB-A5506
	HSWF 10×/⌀ 23 mm (reticule 0,1 mm)	○	○	OZB-A5512
	SWF 15×/⌀ 17 mm (reticule 0,05 mm)	○	○	OZB-A5513
	SWF 20×/⌀ 14 mm (reticule 0,05 mm)	○	○	OZB-A5514
Achromatic auxiliary objectives	0,5×	○	○	OZB-A5612
	0,7×	○	○	OZB-A5613
	1,5×	○	○	OZB-A5615
	2,0×	○	○	OZB-A5616
	Soldering protection lens	○	○	OZB-A5614
C-Mount	0,3× (focus adjustable)		○	OZB-A5701
	0,5× (focus adjustable)		○	OZB-A5702
	1,0× (focus adjustable)		○	OZB-A5703
	1,0× (with micrometer) only in combination with OZB-A5703		○	OZB-A5704
	For SLR cameras (Nikon)		○	OZB-A5706
	For SLR cameras (Olympus)		○	OZB-A5707
	For SLR cameras (Canon)		○	OZB-A5708
Darkfield unit	Darkfield unit	○	○	OZB-A4601
Object clamp	Object clamp	○	○	OBB-A6205
Stand	Pillar style, without illumination			
	Pillar style, with 3 W LED illumination (transmitted + incident)	✓	✓	
	Please find more stands in the catalogue on page 84 and on the internet			
Stage plate	Frosted glass/⌀ 94,5 mm		✓	OZB-A5192
	Black-white/⌀ 94,5 mm	✓	✓	OZB-A5191
	Clear glass/⌀ 94,5 mm		○	OZB-A5190
Mechanical stage (Pre-assembling on request)	Stage size W×D 188×160 mm, Travel 76×65 mm, for incident and transmitted illumination	○	○	OZB-A5781
	Stage size W×D 180×175 mm, Travel 100×86 mm, for incident illumination only	○	○	OZB-A5782
External illumination	Please find the information about external illumination units in the catalogue on page 87 and on the internet			

360° rotatable microscope head

Monocular Microscope
For the inspection with one eye

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 Condenser
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

Fluorescence illumination for compound microscopes
With 3 W LED illumination and filter

Phase contrast unit
For a higher contrast

Darkfield condenser/ unit
For a higher contrast due to indirect illumination

Polarising unit
To polarise the light

Infinity system
Infinity corrected optical system

Zoom magnification
For stereomicroscopes

Auto-focus
For automatic control of the focus level

Parallel optical system
For stereomicroscopes, enables fatigue-proof working

Integrated scale
In the eyepiece

SD card
For data storage

USB 2.0 interface
For data transmission

USB 3.0 interface
For data transmission

WIFI data interface:
For transmitting of the picture to a mobile display device

HDMI digital camera
For direct transmitting of the picture to a display device

PC software
To transfer the measure-mentsfrom the device to a PC.

Automatic temperature compesation
For measurements between 10 °C and 30 °C

Protection against dust and water splashes IPxx:
The type of protection is shown in the pictogram cf. DIN EN 60529:2000-09, IEC 60529:1989+A1:1999 +A2:2013

Battery operation
Ready for battery operation. The battery type is specified for each device.

Battery operation rechargeable
Prepared for a rechargeable battery operation

Plug-in power supply
230V/50Hz in standard version for EU.
On request GB, AUS or USA version.

Integrated power supply unit
Integrated in microscope. 230V/50Hz standard EU. More standards e.g. GB, AUS or USA on request.

Package shipment
The time required to manufacture the product internally is shown in days in the pictogram.

Pallet shipment
The time required to manufacture the product internally is shown in days in the pictogram.

Abbreviations

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