



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, effort-less 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-dimesnional 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						
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)

Stereo Zoom Microscope KERN OZM-5

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		○	○	OBG-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*