



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



Model	Tube	Eyepiece	Field of view	Objective Zoom	Stand	Illumination
KERN						
OZL 456	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
HWF 5x	Total magnification	3,75x – 25x
	Field of view mm	Ø 31 – 4,6
HSWF 10x	Total magnification	7,5x – 50x
	Field of view mm	Ø 33 – 5
HWF 15x	Total magnification	11,25x – 75x
	Field of view mm	Ø 24 – 4,2
HSWF 20x	Total magnification	15x – 100x
	Field of view mm	Ø 20 – 3,5
HWF 25x	Total magnification	18,75x – 125x
	Field of view mm	Ø 15,8 – 2,4
Working distance		113 mm
Maximum sample height		45 mm

Model outfit		Model KERN	Order number
		OZL 456	
Eyepieces (30 mm)	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
Stand	mechanical, with LED lighting (0,21 W transmitted + 1 W incident)	✓	OZB-A4341
Stand insert	Frosted glass/Ø 95 mm	✓	OZB-A4805
	Black-white/Ø 95 mm	✓	OZB-A4806
Mechanical stage (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*