

EXTERNAL LIGHT SOURCES FOR STEREOMICROSCOPES



KERN Pictograms



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

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



Parallel optical system For stereomicroscopes, enables fatigue-proof working



Integrated scale In the eyepiece



SD card For data storage



USB 2.0 digital camera For direct transmitting of the picture to a PC



USB 3.0 digital camera For direct transmitting of the picture to a PC



WLAN 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 measurements from 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 by the pictogram.



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



Battery operation rechargable Prepared for a rechargable battery operation



Mains adapter 230V/50Hz in standard version for EU. On request GB, AUS or USA version.



Power supply Integrated in balance. 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.

SLR camera	era Single-Lens Reflex camera					
SWF	Super Wide Field (Field number at least ϕ 23 mm for 10× eyepiece)					
W.D.	Working Distance					
WF	Wide Field (Field number up to Ø 22 mm for 10× eyepiece)					

Why you should choose a KERN microscope now!

For over 170 years, KERN & SOHN has been synonymous with high precision weighing and measuring technology. This claim is the driving force for the development of our microscope and refractometer ranges.

By working closely with you and our production partners, within 3 years we have developed a complete product range of high-quality microscopes and refractometers.

Thanks to consistent customer focus paired with smart ideas and the latest available technology we are proud to be suppliers of high-quality, durable top microscopes and refractometers, which help you to be as efficient as possible in your daily work.

When developing our microscopes we have concentrated on the very best optical quality and have used only high-quality glass and the latest technologies to achieve this. The high-quality Philips halogen and modern LED illumination produce razor-sharp images with high contrast and which will impress you with their brilliant true-colour display – you must have noticed this yourself.

Your advantages:

- · all mechanical parts have been designed for a long service life
- special attention has been given to the ergonomy of our microscopes, as this allows the user to work for several hours in a comfortable position which does not cause fatigue
- our microscopes are fully-equipped and can be used immediately
- Highlight for 2018: die KERN camera software you will be amazed at how user-friendly and intuitive it is
- and much more...

Use our practical "Check list for microscopes and refractometers", which may help you to quickly determine specifications for the future instrument. Together with our KERN product specialist you can choose the right product for you.

If there is no suitable product in the standard range, for example, then we will of course configure an individual microscope for you.

Our aim is to develop a market-driven product solution, so with our microscope and refractometer range, the saying holds true: good quality at a competitive price! This is what we stand for and work towards, every day!

With our current 2018 product range you can benefit from improved quality and a clear reduction in price, which we have been able to achieve through more efficient production methods and increased global sales of our microscopes and refractometers and of course we pass this straight on to you

Do you have any questions about our range of microscopes and refractometers?

Your KERN customer consultants are available at any time to help you further.

I hope that you enjoy working efficiently with our KERN Optics products.

Albert Sauter, Managing Director

Your advantages

fast

- 24 hour dispatch service for products in stock – order today, on its way tomorrow
- Sales & service hotline from 8:00 am to 5:00 pm

reliable

- Up to 3 years warranty
- Certified QM system
 DIN EN ISO 9001

versatile

- One-stop shopping: from microscope through to refractometer – everything from one supplier
- Quick as a flash, find the product you want with the "Quick-Finder" at www.kern-sohn.com



Order hotline +49[0]7433 9933-0



Service hotline +49[0]74339933-199



Online shop www.kern-sohn.com



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Fax Order +49[0]7433 9933-146



Our team of consultants will assist you from Monday to Friday from 8:00 am to 5:00 pm www.kern-sohn.com

Information on current product availability, product data sheets, user instructions, useful knowledge, technical glossary and much for you to download, practical topic areas, which will guide you to the right product in your industry as well as a clever test weight and balance search engine.

7 External light sources for stereomicroscopes

Ring illumination and cold light sources



Professional illumination units guarantee outstanding, uniform and strong illumination

Features

- Choose your favourite external illumination here to achieve maximum flexibility and greatest possible ease of use in stereo microscopy
- These professional illumination units provide a quality of light at a high, constant intensity at all times
- · Regardless of whether your choice is space-saving ring lights or cold light sources using optical fiber, our range is all you can wish for
- With the OZB-A7101 polarisation ring illumination unit, you also have an excellent component which has been specially optimised for observing shiny surfaces
- · Naturally, these external illumination units also fit your standard stereo microscope
- Exception: The ring illumination units cannot be used in combination with the following ranges: OSE-1, OSF-4G, OZL-45R, OZC-5 and OZG-4



OZB-A7101

NEW



OZB-A4571



OZB-A4572

OBB-A6102

07

Model KERN	Illuminance	Inner Ø mm	Colour tempe- rature K	Brightness adjustable	Illumination by segments	Polarising filter	Price excl. of VAT ex works €
OZB-A4571	3W-LED	60	7000 - 11000	✓			90,-
OZB-A4572	3W-LED	60	6500 - 7000	✓	✓		140,-
OBB-A6102	4,5W-LED	63	ca. 7600	✓			135,-
OZB-A7101 🔤	4,5W-LED	62	6500 - 7000	✓		✓	590,-
www.model ✓ = Included with delivery						O = Option	

New model

Fiber illumination KERN OZB-IF



OZB-A4515



OZB-A4512



OZB-A4533

Model	Description	Length	Illuminance	Colour temperature	Brightness adjustable	Price excl. of VAT ex works €
OZB-A4515	Dual fiber unit LED	300	6W	5600 - 6300	✓	160,-
OZB-A4512	Cold light source halogen	-	24V/150W	3150 - 3200	✓	290,-
OZB-A4531	Single fiber	490		175,-		
OZB-A4532	Dual fiber	490	Usable for OZB-A451	245,-		
OZB-A4533	Ring fiber	900		350,-		

Included with delivery

KERN - Tradition and Innovation for over 170 years

An independent family business, KERN since already 8 generations is synonymous with quality and reliability in customer service.

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KERN is founded – precision balances are produced



A proud Gottlieb Kern with his staff



Pharmaceutical balance with Aesculap



Inflation – KERN wages are paid with self printed currency



The electronic balance ousts mechanical devices



Accredited DKD laboratory (ISO 17025)



New premises in Balingen



Existing QM system certification in accordance with DIN EN ISO 9001:2000 standards



Approval for the manufacture of medical products (DIN EN 13485 and 93/42/EEC)



Authorisation for initial verification by the manufacturer (2009/23/EC)



Approval for the manufacture and sale of height rods (DIN EN 13485 and 93/42/EEC)



Verification point for non-automatic balances and test weights.

New customer portal www.kern-sohn.com goes live



Expansion of the product range to include optical instruments (microscopes and refractometers)



Inauguration of Ziegelei 2.0 with computer-controlled high-bay warehouse



Come with KERN into the digital future: Expansion of the model ranges compatible with Industry 4.0, as well as the related services

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