

# EXTERNAL LIGHT SOURCES FOR STEREO MICROSCOPES

Laboratory | Industry | Food Industry



# KERN Pictograms

 <b>360° rotatable microscope head</b>	 <b>Fluorescence illumination for compound microscopes</b> With 100 W mercury lamp and filter	 <b>Integrated scale</b> In the eyepiece	 <b>Battery operation</b> Ready for battery operation. The battery type is specified for each device.
 <b>Monocular Microscope</b> For the inspection with one eye	 <b>Fluorescence illumination for compound microscopes</b> With 3 W LED illumination and filter	 <b>SD card</b> For data storage	 <b>Rechargeable battery pack</b> Rechargeable set
 <b>Binocular Microscope</b> For the inspection with both eyes		 <b>USB 2.0 interface</b> For data transmission	 <b>Plug-in power supply</b> 230V/50Hz in standard version for EU. On request GB, AUS or USA version.
 <b>Trinocular Microscope</b> For the inspection with both eyes and the additional option for the connection of a camera	 <b>Phase contrast unit</b> For a higher contrast	 <b>USB 3.0 interface</b> For data transmission	
 <b>Abbe Condenser</b> With high numerical aperture for the concentration and the focusing of light	 <b>Darkfield condenser/unit</b> For a higher contrast due to indirect illumination	 <b>WIFI data interface:</b> For transmitting of the picture to a mobile display device	 <b>Integrated power supply unit</b> Integrated in microscope. 230V/50Hz standard EU. More standards e.g. GB, AUS or USA on request.
 <b>Halogen illumination</b> For pictures bright and rich in contrast	 <b>Polarising unit</b> To polarise the light	 <b>HDMI digital camera</b> For direct transmitting of the picture to a display device	
 <b>LED illumination</b> Cold, energy-saving and especially long-life illumination	 <b>Infinity system</b> Infinity corrected optical system	 <b>PC software</b> To transfer the measurements from the device to a PC.	 <b>Package shipment</b> The time required to manufacture the product internally is shown in days in the pictogram.
 <b>Incident illumination</b> For non-transparent objects	 <b>Zoom magnification</b> For stereomicroscopes	 <b>Automatic temperature compensation</b> For measurements between 10 °C and 30 °C	 <b>Pallet shipment</b> The time required to manufacture the product internally is shown in days in the pictogram.
 <b>Transmitting illumination</b> For transparent objects	 <b>Auto-focus</b> For automatic control of the focus level	 <b>Protection against dust and water splashes IPxx:</b> The type of protection is shown in the pictogram cf. DIN EN 60529:2000-09, IEC 60529:1989+A1:1999 +A2:2013	
 <b>Fluorescence illumination</b> For stereomicroscopes	 <b>Parallel optical system</b> For stereomicroscopes, enables fatigue-proof working		

# Abbreviations

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

KERN Models A – Z

OAB-L	108
OBE-12 · OBE-13	12
OBE-S	65
OBL-12 · OBL-13	14
OBL-14 · OBL-15	16
OBL-S · OBN-S	66
OBN-13 · OBN-15	18
OBN-14 <small>NEW</small>	20
OBS-1	8
OBT-1 · OBT-2 <small>NEW</small>	10
OCM-1	22
OCS-9	24
ODC-24	88
ODC-25 <small>NEW</small>	89
ODC-82 · ODC-83 · ODC-84	85
ODC-85 · ODC-86	86
ODC-87 · ODC-88 · ODC-89	87
OIV-2	62
OIV-3 · OIV-9 <small>NEW</small>	60
OIV-6	63
OKM-1	26
OKO-1	28
OLM-1	30
OPO-1	33
ORA	92-98
ORL-B	105
ORM	99-104
OSE-4 · OZL-9 · OZM-9	71
OSE-42	36
OSF-43	38
OXM-9	90
OZB-H	81
OZB-IR	83
OZB-M	74
OZB-UE	80
OZB-UP	79
OZG-4	56
OZL-44	40
OZL-45	46
OZL-45R	48
OZL-46	42
OZL-47	44
OZL-S	67
OZM-5	50
OZM-9	70
OZM-S · OZP-S	68
OZP-5	52
OZS-5	54

NEW New model

KERN Customer Consultants

With questions about our products and services, we will be happy to advise you:

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KERN Hotlines



Technical questions about our products?

You will find assistance here quickly: +49 7433 9933 - ...

Service-Hotline

for general technical questions about your KERN product

→ 199

Optical Devices

for all technical questions concerning our microscopes, microscope cameras, refractometers, etc.

→ 777

Laboratory and Analytical Balances

for all technical questions concerning our high quality precision balances, analytical balances (especially with electromagnetic force-compensated measuring systems, tuning fork and high application density)

→ 444

SAUTER Measuring Instruments

for all technical questions concerning our SAUTER measuring instruments, test benches, force measuring accessories (clamps etc.), SAUTER software

→ 555

System Solutions Industry 4.0

for all technical questions concerning the interlocking of the latest information and communication technology with our scales, load cells and measuring devices as well as questions about KERN software

→ 200

Calibration and Verification Service

for any questions concerning our calibration and verification service

→ 196

Professional illumination units guarantee outstanding, uniform and strong illumination

**Tip:** These illumination units are also available with UK mains plug. For more information on this, visit our online shop or give us a ring



OZB-A4571



OZB-A4572



OBB-A6102



OZB-A7101

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

Model	Illuminance	Inner ø	Colour temperature	Brightness adjustable	Illumination by segments	Polarising filter	Price excl. of VAT ex works €
KERN		mm	K				
OZB-A4571	4W-LED	60	7000 – 11000	✓			100,-
OZB-A4572	4W-LED	60	6500 – 7000	✓	✓		155,-
OBB-A6102	4,5W-LED	63	approx. 7600	✓			150,-
OZB-A7101	4,5W-LED	62	6500 – 7000	✓		✓	690,-

✓ = Included with delivery

Goose Neck Illumination KERN OZB-IF



OZB-A4516



OZB-A4515



Application example

Features

- With the **OZB-A4516** 20 W-LED Goose Neck Illumination Unit with focusable light beam, you can adjust the illumination to suit your needs. Spot or scattered radiation means that you can achieve the very best illumination of your sample

Model	Description	Length	Illuminance	Colour temperature	Brightness adjustable	Price excl. of VAT ex works €
KERN		mm		K		
OZB-A4515	Dual Goose Neck Illumination LED Unit	300	6W	5600 – 6300	✓	165,-
OZB-A4516	Dual Goose Neck Illumination LED Cold Light Source	540	20W	6400	✓	720,-

✓ = Included with delivery

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