

# DIGITAL MICROSCOPE SETS

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



OBE-1 with camera



OBE-1 with tablet

Our all-round compound microscope as a comprehensive digital solution for schools, training and laboratories

Features

- Laboratory microscopes from the OBE range are now also available to you as a comprehensive digital solution for your live investigations. Optionally available with an mounted tablet or C-mount camera. Naturally, the appropriate C-mount adapter is included with the delivery
- The mounted KERN ODC 241 tablet-camera has been specially developed for simple, convenient and direct investigation of the sample on the screen. Ideally suited for school pupils and students in education or for demonstration purposes in the laboratory

- The mounted C-mount camera is available in different versions and can be used anywhere
- For detailed information on the individual components, see the relevant product description of the individual item
- A protective dust cover, eye cups, as well as multi-lingual user instructions are included in the scope of the delivery

Technical data

- Finite optical system
- Quadplex nosepiece
- Siedentopf 30° inclined/360° rotatable
- Diopter adjustment: One-sided
- Eyepiece: HWF 10×/Ø 18 mm
- Objective quality: Achromatic
- Objectives OBE 124: 4×/10×/40×
- Objectives OBE 134: 4×/10×/40×/100×
- Illumination: 3 W LED (transmitted)
- Overall dimensions W×D×H 320×180×365 mm
- Net weight approx. 5,5 kg

Model		Standard configuration (camera)				Price excl. of VAT ex works €
KERN	Included camera	Resolution camera	Interface	Sensor	Details microscope, camera	
OBE 124C825	ODC 825	5 MP	USB 2.0 (6,8 – 55 FPS)	CMOS 1/2,5"	www.kern-sohn.com, KERN Optics catalogue Page 12, 85	1230,-
OBE 134C825						1290,-
OBE 124C832	ODC 832	5 MP	USB 3.0 (14,2 – 101,2 FPS)	CMOS 1/2,5"		1380,-
OBE 134C832						1440,-
OBE 124T241	ODC 241	5 MP	WiFi, USB 2.0, HDMI, SD (15 – 30 FPS)	CMOS 1/2,5"	www.kern-sohn.com, KERN Optics catalogue Page 12, 89	1820,-
OBE 134T241						1890,-



OBL-1 with camera



OBL-1 with tablet



OBN-1 with camera



OBN-1 with tablet

## The digital laboratory assistant with infinity optical unit and fixed, Köhler illumination

### Features

- Laboratory microscopes from the OBL and OBN range are now also available to you as a comprehensive digital solution for your live investigations. Optionally available with an mounted tablet or C-mount camera. Naturally, the appropriate C-mount adapter is included with the delivery
- The mounted KERN ODC 241 tablet-camera has been specially developed for simple, convenient and direct investigation of the sample on the screen. Ideally suited for school pupils and students in education or for demonstration purposes in the laboratory
- The mounted C-mount camera is available in different versions and can be used anywhere
- For detailed information on the individual components, see the relevant product description of the individual item

- A protective dust cover, eye cups, as well as multi-lingual user instructions are included in the scope of the delivery

### Technical data

- Infinity optical system
- Siedentopf 30° inclined/360° rotatable
- Eyepiece: HWF 10×/ø 20 mm

### OBL-1

- Quadplex nosepiece
- Diopter adjustment: One-sided
- Overall dimensions W×D×H 395×200×380 mm
- Net weight approx. 7,7 kg
- Objective quality: Infinity E-Plan
- Objectives: 4×/10×/40×/100×
- Illumination OBL 137: 3 W LED (transmitted)

### OBN-1

- Quintuple nosepiece
- Diopter adjustment: Both-sided
- Overall dimensions W×D×H 390×200×400 mm
- Net weight approx. 10 kg
- Objective quality: Infinity Plan
- Objectives: 4×/10×/20×/40×/100×
- Illumination OBN 132: 20 W Halogen (transmitted)
- Illumination OBN 135: 3 W LED (transmitted)

Model	Standard configuration (camera)					Price excl. of VAT ex works €
	Included camera	Resolution camera	Interface	Sensor	Details microscope, camera	
<b>KERN</b>						
<b>OBL 137C825</b>	ODC 825	5 MP	USB 2.0 (6,8 – 55 FPS)	CMOS 1/2,5"	KERN Optics catalogue Page 16, 85	<b>1750,-</b>
<b>OBL 137C832</b>	ODC 832	5 MP	USB 3.0 (14,2 – 101,2 FPS)	CMOS 1/2,5"	KERN Optics catalogue Page 16, 85	<b>1900,-</b>
<b>OBL 137T241</b>	ODC 241	5 MP	WiFi, USB 2.0, HDMI, SD (15 – 30 FPS)	CMOS 1/2,5"	KERN Optics catalogue Page 16, 89	<b>2350,-</b>
<b>OBN 132C825</b>	ODC 825	5 MP	USB 2.0 (6,8 – 55 FPS)	CMOS 1/2,5"	KERN Optics catalogue Page 18, 85	<b>2210,-</b>
<b>OBN 135C825</b>						<b>2140,-</b>
<b>OBN 132C832</b>	ODC 832	5 MP	USB 3.0 (14,2 – 101,2 FPS)	CMOS 1/2,5"	KERN Optics catalogue Page 18, 85	<b>2360,-</b>
<b>OBN 135C832</b>						<b>2290,-</b>
<b>OBN 132T241</b>	ODC 241	5 MP	WiFi, USB 2.0, HDMI, SD (15 – 30 FPS)	CMOS 1/2,5"	KERN Optics catalogue Page 18, 89	<b>2810,-</b>
<b>OBN 135T241</b>						<b>2740,-</b>





OZL 464 with camera



OZL 466 with camera



OZL 468 with camera



OZL 464 with tablet



OZL 466 with tablet



OZL 468 with tablet

## The flexible, affordable all-rounder with zoom function as a digital solution for schools, training companies, inspection authorities and laboratories

### Features

- The flexible, cost-effective OZL-46 range is now also available to you as a comprehensive digital solution for your live investigations. Optionally available with an mounted tablet or C-mount camera. Naturally, the appropriate C-mount adapter is included with the delivery
- The mounted KERN ODC 241 tablet-camera has been specially developed for simple, convenient and direct investigation of the sample on the screen. Ideally suited for school pupils and students in education or for demonstration purposes in the laboratory

- The mounted C-mount camera is available in different versions and can be used anywhere
- For detailed information on the individual components, see the relevant product description of the individual item
- A protective dust cover, eye cups, as well as multi-lingual user instructions are included in the scope of the delivery

### Technical data

- Optical system: Greenough optics
- Brightness adjustable (separate)
- Tube 45° inclined
- Magnification ratio: 6,4:1
- Light distribution 100:0
- Interpupillary distance 55 – 75 mm
- Diopter adjustment: Both-sided
- Overall dimensions W×D×H 300×240×420 mm
- Net weight approx. 5 kg
- Eyepiece: HWF 10×/ø 20 mm
- Field of view: ø 28,6 – 4,4 mm
- Objective: 0,7× – 4,5×
- Stand OZL 464/466: Pillar style
- Stand OZL 468: Arm curved
- Illumination: 3 W LED (incident + transmitted)

Model	Standard configuration (camera)					Price excl. of VAT ex works €
KERN	Included camera	Resolution camera	Interface	Sensor	Details microscope, camera	
<b>OZL 464C825</b>	ODC 825	5 MP	USB 2.0 (6,8 – 55 FPS)	CMOS 1/2,5"	KERN Optics catalogue Page 42, 85	1140,-
<b>OZL 466C825</b>						1160,-
<b>OZL 468C825</b>						1140,-
<b>OZL 464C832</b>						1290,-
<b>OZL 466C832</b>						1310,-
<b>OZL 468C832</b>	ODC 832	5 MP	USB 3.0 (14,2 – 101,2 FPS)	CMOS 1/2,5"	KERN Optics catalogue Page 42, 89	1290,-
<b>OZL 464T241</b>						1740,-
<b>OZL 466T241</b>						1760,-
<b>OZL 468T241</b>						1740,-



OZM-5 with camera



OZP-5 with camera



OZP-5 with tablet

## First-class optics as well as strong illumination combined with a high level of flexibility and digital tools

### Features

- Stereomicroscopes from the OZM and OZP range are now also available to you as a comprehensive digital solution for your live investigations. Optionally available with an mounted tablet or C-mount camera. Naturally, the appropriate C-mount adapter is included with the delivery
- The mounted KERN ODC 241 tablet-camera has been specially developed for simple, convenient and direct investigation of the sample on the screen. Ideally suited for school pupils and students in education or for demonstration purposes in the laboratory
- The mounted C-mount camera is available in different versions and can be used anywhere
- For detailed information on the individual components, see the relevant product description of the individual item
- A protective dust cover, eye cups, as well as multi-lingual user instructions are included in the scope of the delivery

### Technical data

- Optical system: Greenough optics
- Brightness adjustable (separate)
- Light distribution: 100:0
- Diopter adjustment: Both-sided
- Net weight approx. 5,5 kg
- Eyepiece: HSWF 10×/ø 23 mm
- Stand: Pillar style
- Illumination: 3 W LED (incident + transmitted)

### OZM-5

- Tube 45° inclined
- Magnification ratio: 6,4:1
- Interpupillary distance 52 – 76 mm
- Overall dimensions W×D×H 330×285×440 mm
- Field of view: ø 32,8 – 5,1 mm
- Objective: 0,7× – 4,5×

### OZP-5

- Tube: 35° inclined
- Magnification ratio: 9,2:1
- Interpupillary distance 52 – 76 mm
- Overall dimensions W×D×H 330×285×470 mm
- Field of view: ø 38,3 – 4,2 mm
- Objective: 0,6× – 5,5×

Model	Standard configuration (camera)					Price excl. of VAT ex works €
KERN	Included camera	Resolution camera	Interface	Sensor	Details microscope, camera	
<b>OZM 544C825</b>	ODC 825	5 MP	USB 2.0 (6,8 – 55 FPS)	CMOS 1/2,5"	KERN Optics catalogue Page 50, 85	<b>2250,-</b>
<b>OZM 544C832</b>	ODC 832	5 MP	USB 3.0 (14,2 – 101,2 FPS)	CMOS 1/2,5"	KERN Optics catalogue Page 50, 85	<b>2410,-</b>
<b>OZP 558C825</b>	ODC 825	5 MP	USB 2.0 (6,8 – 55 FPS)	CMOS 1/2,5"	KERN Optics catalogue Page 52, 85	<b>2380,-</b>
<b>OZP 558C832</b>	ODC 832	5 MP	USB 3.0 (14,2 – 101,2 FPS)	CMOS 1/2,5"	KERN Optics catalogue Page 52, 85	<b>2530,-</b>
<b>OZP 558T241</b>	ODC 241	5 MP	WiFi, USB 2.0, HDMI, SD (15 – 30 FPS)	CMOS 1/2,5"	KERN Optics catalogue Page 52, 89	<b>2980,-</b>

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