

VIDEO MICROSCOPES

Laboratory | Industry | Food Industry



PROFESSIONAL MEASURING

2025

KERN Pictograms

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

Abbreviations

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

UK, BE, IE, IS, LU, NL



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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



The entry level video microscope with bright image reproduction and intuitive operation



Zoom wheel with click stop



NEW: KERN OIV 901: Universal stands with hinged arm for clamping onto the edge of the bench



NEW: KERN OIV 902: Universal stands with hinged arm for screw onto a bench surface

Features

- The KERN OIV-3 is a video microscope which has been constructed to optimise digital stereo microscopy. Our well-conceived, comprehensive solution with axial optical unit enables immediate, simple display of your samples on the screen
- The LED incident illumination unit (ring) included as standard guarantees the very best illumination of your sample
- Combined with the large working surface, recording objects on the screen is ideally suited for monitoring, analysis and documentation in industrial environments
- The excellent optical unit enables continuous sharp image tracking across the entire zoom range from 0,7× - 4,5×
- The powerful 5.0 megapixel camera of the microscope without eyepiece has a high level of colour reproduction and offers smooth live monitoring of your samples using the HD monitor
- The high-quality display made from toughened glass is easy to clean due to the absence of edges
- The intuitive software and wireless USB mouse, both included with delivery, make it possible for you to easily process your results digitally and store them
- Using a HDMI interface it is possible to connect an additional monitor and in this way you can observe two devices operated in parallel in real time

- The image can be viewed on the PC using a USB connection. The software required for this also offers the option of carrying out measurements. It is available for download
- A special feature of this microscope range are the zoom wheels with integrated click stop. These offer precise selection of magnification levels and support the user when calibrating the documentation functions in the software
- The video microscope has one HDMI and two USB 2.0 interfaces as well as a micro SD card slot
- A protective dust cover, a USB stick (32 GB), a wireless USB mouse as well as multi-lingual user instructions are included in the delivery
- Menu languages: DE, EN, FR, IT, RU, JA, ZH

NEW: KERN OIV-9

- The integrated universal stands with hinged arm enable flexible working with the most varied samples, even with greater working distances. In addition, the microscope can be pushed to the side if necessary, to create space
- KERN OIV 901: Universal stands with hinged arm for clamping: The user simply attaches the microscope to the edge of a bench using the clamping device delivered with the product
- KERN OIV 902: Universal stands with hinged arm for screw onto a bench surface. Hole required

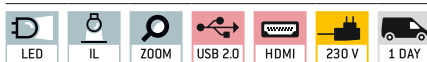
Technical data

- Optical system: Axial
- Screen: 12", 1920×1080 HD, -5° - 90° inclination
- Magnification ratio 6,4:1
- Frame rate: 60 fps
- Camera resolution: 5 MP
- Stand: mechanical
- Illumination: 3 W-LED ring (Reflected light)
- Brightness adjustable
- Data storage: External using USB (Max 32 GB)
- Working distance: 100 mm
- Maximum sample height: 110 mm
- Overall dimensions W×D×H
KERN OIV-3: 320×260×450 mm
KERN OIV-9: 320×260×450 mm
- Length jointed arm KERN OIV-9: 533 mm
- Net weight approx. 4,4 kg

Accessories

- Conversion objective lens 0,5×, KERN OBB-A3225, **€ 195,-**
- Conversion objective lens 2,0×, KERN OBB-A3226, **€ 195,-**
- Solder protection lens, KERN OBB-A3227, **€ 33,-**
- Object holder for micrometer (multi), KERN ODC-A2404, **€ 40,-**
- Cleaning Sets for Microscopes, KERN OCS 901, **€ 35,-**

STANDARD



Model	Resolution camera	Interface	Sensor	Field of view	Objective Zoom	Software functions	Price excl. of VAT ex works €
KERN				mm			
OIV 345	5 MP	USB 2.0, HDMI, MicroSD (60 fps)	CMOS 1/2,8"	Ø 16 - 2,5	0,7 × - 4,5 ×	Images and videos, documentation	2520,-
OIV 901	5 MP	USB 2.0, HDMI, MicroSD (60 fps)	CMOS 1/2,8"	Ø 16 - 2,5	0,7 × - 4,5 ×	Images and videos, documentation	2960,-
OIV 902	5 MP	USB 2.0, HDMI, MicroSD (60 fps)	CMOS 1/2,8"	Ø 16 - 2,5	0,7 × - 4,5 ×	Images and videos, documentation	2990,-

New model



OIV 254 Snapshot button

The comprehensive digital solution for increased working comfort when carrying out continuous monitoring work in industry.

Features

- The KERN OIV-2 is a video microscope which has been constructed to optimise digital stereo microscopy. Our well-conceived, comprehensive solution with axial optical unit enables immediate, simple display of your samples on the screen
- The LED incident illumination unit (ring) included as standard guarantees the very best illumination of your sample
- Combined with the large working surface, recording objects on the screen is ideally suited for monitoring, analysis and documentation in industrial environments
- The excellent optical unit enables continuous sharp image tracking across the entire zoom range from 0.7×–5×

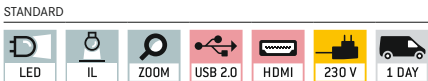
- The powerful 2.0 megapixel camera of the microscope without eyepieces offers, thanks to the HDMI output, smooth live monitoring of your samples from the HD monitor. In addition, the software which is easy to use, the USB stick as well as the USB mouse which are integral components of the delivery, mean you can process and store your results digitally
- With the OIV 254 model, there is the option of image capture at the push of a button, without having to detour via the software. Whereas the OIV 255 guarantees software-controlled taking of images and videos with additional, documentation functions
- A protective dust cover, as well as multi-lingual user instructions are included in the scope of the delivery

Technical data

- Optical system: Axial
- Brightness adjustable
- Screen: 12", 1920×1080 HD, -5°–15° inclination
- Magnification ratio: 7,1:1
- Stand: arm curved
- Illumination: 2 W LED ring (incident)
- Data storage: External using USB (Max 128 GB)
- Working distance: 105 mm
- Maximum sample height: 100 mm
- Overall dimensions W×D×H 320×260×483 mm
- Net weight approx. 6 kg

Accessories

- Auxiliary objective 0,5×, KERN OZB-A2101, € 310,-



Model	Standard configuration						Price excl. of VAT ex works €
	Resolution camera	Interface	Sensor	Field of view mm	Objective Zoom	Software functions	
KERN							
OIV 254	2 MP	HDMI (60 FPS)	CMOS 1/2"	ø 29,82–4,18	0,7×–5×	Image capture	2750,-
OIV 255	2 MP	HDMI (60 FPS)	CMOS 1/2"	ø 29,82–4,18	0,7×–5×	Images and videos, documentation	2950,-

ONLY WHILE STOCKS LAST



Side view with screen connected
(not included with delivery)

5

The professional video microscope with auto-focus

Features

- The KERN OIV-6 is a video microscope which has been constructed to optimise digital stereo microscopy. Our well-conceived, comprehensive solution with axial optical unit enables immediate, simple display of your samples on the screen
- The LED incident illumination unit (ring) included as standard guarantees the very best illumination of your sample
- Combined with the large working surface, recording objects on the screen is ideally suited for monitoring, analysis and documentation suitable in the industrial sector
- The excellent optical unit enables continuous sharp image tracking across the entire zoom range from 0,7×–4,5×
- Through the integrated auto-focus, the focus level can also be optimised within a defined image section

- The powerful 2.0 megapixel camera of the microscope without eyepieces offers, thanks to the HDMI output, smooth live monitoring of your samples using an external monitor (not included with delivery). In addition, the software which is easy to use, the USB stick as well as the USB mouse which are integral components of the delivery, mean you can process and store your results digitally
- The OIV 656 guarantees software-controlled taking of images and videos with additional, documentation functions
- Multi-lingual user instructions are included in the scope of the delivery

Technical data

- Optical system: Axial
- Brightness adjustable
- Magnification ratio: 6,5:1
- Stand: arm curved
- Illumination: 3 W LED ring (incident)
- Data storage: External using USB (Max 128 GB)
- Working distance: 91 mm
- Maximum sample height: 85 mm
- Overall dimensions W×D×H 372×285×482 mm
- Net weight approx. 7 kg

Accessories

- Auxiliary objective 0,5×, KERN OZB-A6101, € 310,-
- Auxiliary objective 2,0×, KERN OZB-A6102, € 310,-

STANDARD

LED

IL

AF

ZOOM

USB 2.0

HDMI

230 V

1 DAY

Model	Standard configuration						Price excl. of VAT ex works €
	Resolution camera	Interface	Sensor	Field of view mm	Objective Zoom	Software functions	
KERN							
OIV 656	2 MP	HDMI (30 FPS)	CMOS 1/2,8"	Ø 12,64–2,65	0,7×–4,5×	Images and videos, documentation	4990,-

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