

VIDEO MICROSCOPES

PROFESSIONAL MEASURING



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	 Battery operation rechargeable Prepared for a rechargeable battery operation
 Binocular Microscope For the inspection with both eyes	 Phase contrast unit For a higher contrast	 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	 Darkfield condenser/unit For a higher contrast due to indirect illumination	 USB 3.0 interface For data transmission	 Integrated power supply unit Integrated in microscope. 230V/50Hz standard EU. More standards e.g. GB, AUS or USA on request.
 Abbe Condenser With high numerical aperture for the concentration and the focusing of light	 Polarising unit To polarise the light	 WIFI data interface: For transmitting of the picture to a mobile display device	 Package shipment The time required to manufacture the product internally is shown in days in the pictogram.
 Halogen illumination For pictures bright and rich in contrast	 Infinity system Infinity corrected optical system	 HDMI digital camera For direct transmitting of the picture to a display device	 Pallet shipment The time required to manufacture the product internally is shown in days in the pictogram.
 LED illumination Cold, energy-saving and especially long-life illumination	 Zoom magnification For stereomicroscopes	 PC software To transfer the measurements from the device to a PC.	 Automatic temperature compensation For measurements between 10 °C and 30 °C
 Incident illumination For non-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	
 Transmitting illumination For transparent objects	 Parallel optical system For stereomicroscopes, enables fatigue-proof working		
 Fluorescence illumination For stereomicroscopes			

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 \varnothing 23 mm for 10 \times 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 \varnothing 22 mm for 10 \times eyepiece)
N.A.	Numerical Aperture		

KERN Models A – Z

OAB-L _____	110-111
OBE-12 · OBE-13 _____	16
OBE-S _____	67
OBL-12 · OBL-13 _____	16
OBL-14 · OBL-15 _____	18
OBL-S · OBN-S _____	68
OBN-13 · OBN-15 _____	20
OBN-14 _____	22
OBS-1 _____	10
OBT-1 _____	12
OCM-1 _____	24
ODC-2 _____	89
ODC-82 · ODC-83 · ODC-84 _____	86
ODC-85 · ODC-86 _____	87
ODC-87 · ODC-88 · ODC-89 _____	88
OIV-2 _____	64
OIV-3 _____	63
OIV-6 _____	65
OKM-1 _____	27
OKO-1 _____	29
OLM-1 _____	31
OPO-1 _____	34
ORA _____	94-100
ORL-B _____	107
ORM _____	101-106
OSE-4 · OZL-9 · OZM-9 _____	73
OSE-42 _____	38
OSF-4G _____	40
OXM-9 _____	90
OZB-H _____	82
OZB-IR _____	84
OZB-M _____	75-79
OZB-UE _____	81
OZB-UP _____	80
OZG-4 _____	58
OZL-44 _____	42
OZL-45 _____	48
OZL-45R _____	50
OZL-46 _____	44
OZL-47 _____	46
OZL-S _____	69
OZM-5 _____	52
OZM-9 _____	72
OZM-S · OZP-S _____	70
OZP-5 _____	54
OZS-5 _____	56
OXM-9 (Software OXM 901 · OXM 902) _____	90

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

→ 199

for general technical questions about your KERN product

Optical Devices

→ 777

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

Laboratory and Analytical Balances

→ 444

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)

SAUTER Measuring Instruments

→ 555

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

System Solutions Industry 4.0

→ 200

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

Calibration and Verification Service

→ 196

for any questions concerning our calibration and verification service



Zoom wheel with click-stop

The beginner's video microscope with the simplest handling for applications of all kinds

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 0,7x-4,5x
- The powerful 5.0 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 wireless mouse which are integral components of the delivery, mean you can process and store your results digitally.

- An additional HDMI interface makes it possible to connect an external monitor and thus enable live observation on two devices operated in parallel
- A special feature of this microscope series are the zoom wheels with integrated click-stop. This offers precise selection of the magnification level and supports the user in calibrating the documentation functions in the software
- 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", 1920x1080 HD, -5°- 90° inclination
- Magnification ratio: 6,4:1
- Stand: arm curved
- Illumination: 3 W LED ring (incident)
- Data storage: External using USB (Max 128 GB)
- Working distance: 100 mm
- Maximum sample height: 110 mm
- Overall dimensions WxDxH 260x320x450 mm
- Net weight approx. 4,4 kg

Accessories

- Conversion objective lens 0,5x, KERN OBB-A3225, € 195,-
- Conversion objective lens 2,0x, KERN OBB-A3226, € 195,-

STANDARD



Model	Standard configuration						Price excl. of VAT ex works €
	Resolution camera	Interface	Sensor	Field of view mm	Objective Zoom	Software functions	
KERN							
OIV 345	5 MP	HDMI (60 FPS)	CMOS 1/2,8"	∅ 16 - 2,5	0,7x-4,5x	Images and videos, documentation	2520,-



OIV 254 Snapshot button

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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

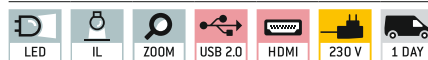
Technical data

- 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,-

STANDARD



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"	∅ 29,82–4,18	0,7×–5×	Image capture	3100,-
OIV 255	2 MP	HDMI (60 FPS)	CMOS 1/2"	∅ 29,82–4,18	0,7×–5×	Images and videos, documentation	3580,-



Side view with screen connected
(not included with delivery)



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



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"	∅ 12,64-2,65	0,7×-4,5×	Images and videos, documentation	5380,-

I *ONLY WHILE STOCKS LAST

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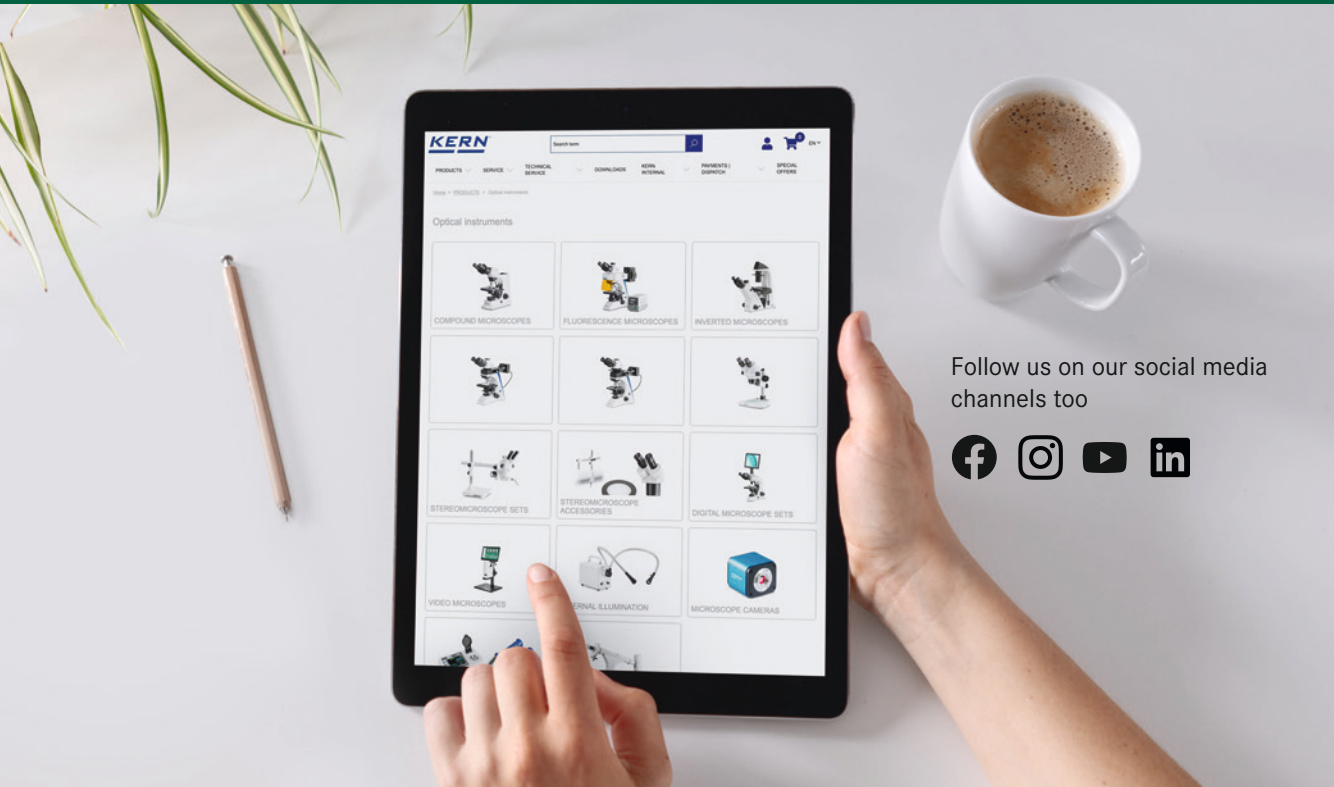
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