

Video Microscope KERN OIV-3



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 0,7×–4,5×
- 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

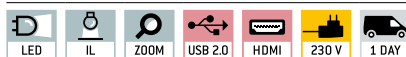
Technical data

- Optical system: Axial
- Brightness adjustable
- Screen: 12", 1920×1080 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 W×D×H 260×320×450 mm
- Net weight approx. 4,4 kg

Accessories

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

STANDARD



Model

Standard configuration

	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	0,7×–4,5×	Images and videos, documentation

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		