



Easy connection to the PC,  
Laptop not included in delivery  
Please find the description of the software in  
chapter 7 (p. 83)

## LAB LINE

The digital all-round talent for your applications,  
documentation and live streaming

### Features

- The KERN OBD is an excellent, stable laboratory microscope with integrated camera and infinity optical system, based on the OBL series.
- A strong and continuously adjustable 20 W halogen illumination unit (Philips) ensures the optimum lighting conditions.
- The fixed, pre-centred and focusable 1,25 Abbe condenser with aperture diaphragm and field diaphragm gives you a simplified Koehler illumination, without having to move the centre.
- The large mechanical stage and its specimen holder holds up to two samples at the same time and is quick and easy to focus using a coaxial coarse and fine focusing knob on both sides.

- A large selection of eyepieces, objectives and colour filters, a simple polarising unit as well as phase contrast units are available to you as accessories.
- Multi-lingual software, USB cable, calibration scale as well as a protective dust cover, eye cups and multi-lingual user instructions are included in the scope of delivery.
- Please find detailed information in the following charts.

### Scope of application

- Haematology, urology, gynaecology, dermatology, pathology, microbiology and parasitology, immunology, Sewage treatment plants, Oncology, entomology, vets, water analysis and breweries, if necessary, for training where there will be lots of people observing the screen/beamer at the same time

### Applications/Samples

- Translucent, thin, low-contrast, challenging samples (e.g. living mammal cells, bacteria, tissue)

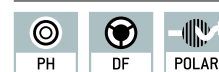
### Technical data

- Infinity optical system
- Quadplex nosepiece
- Siedentopf 30° inclined/360° rotatable
- Diopter adjustment: One-sided
- Overall dimensions W×D×H  
395×200×430 mm
- Net weight approx. 7 kg

#### STANDARD



#### OPTION



































Model	Standard configuration					
	Tube	Eyepiece	Objective quality	Objectives	Illumination	
<b>KERN OBD 127</b>	Binocular/3MP digital/USB 2.0	WF 10×/∅ 20 mm	Infinity E-Plan	4×/10×/40×/100×	6 V/20 W Halogen (transmitted)	
<b>OBD 128</b> <small>NEW</small>	Binocular/5MP digital/USB 2.0	WF 10×/∅ 20 mm	Infinity E-Plan		6 V/20 W Halogen (transmitted)	

NEW New model

Model outfit		Model KERN		Order number	
		OBD 127	OBD 128		
<b>Eyepieces</b> (23,2 mm)	WF 10×/ø 20 mm	✓✓	✓✓	OBB-A1351	
	WF 16×/ø 13 mm	○○	○○	OBB-A1354	
	WF 10×/ø 20 mm (with Pointer)	○	○	OBB-A1448	
	WF 10×/ø 20 mm (reticule 0,1 mm) (adjustable)	○	○	OBB-A1352	
<b>Infinity E-Plan objectives</b>	4×/0,10	✓	✓	OBB-A1161	
	10×/0,25	✓	✓	OBB-A1159	
	40×/0,65 (spring)	✓	✓	OBB-A1160	
	100×/1,25 (oil) (spring)	✓	✓	OBB-A1158	
	Plan 20×/0,40	○	○	OBB-A1250	
	Plan 60×/0,80 (spring)	○	○	OBB-A1270	
	Plan 100×/1,15 (water) (spring)	○	○	OBB-A1437	
<b>Digital tube Trinocular (3MP)</b>	<ul style="list-style-type: none"> <li>• 30° inclined/360° rotatable</li> <li>• Interpupillary distance 50 – 75 mm</li> <li>• Diopter adjustment: One-sided</li> <li>• Light distribution 80:20</li> <li>• Built-in digital 3MP Camera with ½" CMOS</li> <li>• USB port for PC without extra power supply</li> <li>• With multilingual (DE, EN, FR, IT, ES) software "Microscope VIS" for Windows XP, Vista, 7, 8, 10</li> </ul>	✓		OBB-A1126	
<b>Digital tube Trinocular (5MP)</b>	<ul style="list-style-type: none"> <li>• 30° inclined/360° rotatable</li> <li>• Interpupillary distance 50 – 75 mm</li> <li>• Diopter adjustment: One-sided</li> <li>• Light distribution 80:20</li> <li>• Built-in digital 5 MP Camera with ½,5" CMOS</li> <li>• USB port for PC without extra power supply</li> <li>• With multilingual (DE, EN, FR, IT, ES) software "Microscope VIS" for Windows XP, Vista, 7, 8, 10</li> </ul>		✓	OBB-A1127	
<b>Object micrometer</b>	For calibrating the software measuring function, 0.01 mm division	✓	✓	OBB-A1224	
<b>Mechanical stage</b>	<ul style="list-style-type: none"> <li>• Stage size W×D 145×130 mm</li> <li>• Travel 76×52 mm</li> <li>• Two slide holder</li> </ul>	✓	✓		
<b>Condenser</b>	Abbe N.A. 1,25 precentered (aperture diaphragm)	✓	✓	OBB-A1103	
<b>Darkfield condenser</b>	N.A. 0,85 – 0,91 (dry)	✓	✓	OBB-A1422	
<b>Illumination</b>	6 V/20 W Halogen spare bulb (transmitted)	✓	✓	OBB-A1370	
<b>Polarising unit</b>	Analyser/Polariser	○	○	OBB-A1277	
<b>Phase contrast units</b> (including PH-condenser and PH-slides)	Single unit with ∞ PH-Plan objective 10×	○	○	OBB-A1215	
	Single unit with ∞ PH-Plan objective 20×	○	○	OBB-A1217	
	Single unit with ∞ PH-Plan objective 40×	○	○	OBB-A1219	
	Single unit with ∞ PH-Plan objective 100×	○	○	OBB-A1213	
	If required, there are several magnification levels, please contact our OPTICS product management team				
<b>Colour filters</b> for transmitted illumination	Blue (fitted to the condenser)	✓	✓		
	Green	○	○	OBB-A1188	
	Yellow	○	○	OBB-A1165	
	Gray	○	○	OBB-A1183	

✓ = Included with delivery

○ = Option

 360°	<b>360° rotatable microscope head</b>	 FL-LED	<b>Fluorescence illumination for compound microscopes</b> With 3 W LED illumination and filter	 SD	<b>SD card</b> For data storage
 MONO	<b>Monocular Microscope</b> For the inspection with one eye	 PH	<b>Phase contrast unit</b> For a higher contrast	 SOFTWARE	<b>PC software</b> To transfer the measurements from the device to a PC.
 BINO	<b>Binocular Microscope</b> For the inspection with both eyes	 DF	<b>Darkfield condenser/unit</b> For a higher contrast due to indirect illumination	 AUTO ATC	<b>Automatic temperature compensation</b> For measurements between 10 °C and 30 °C
 TRINO	<b>Trinocular Microscope</b> For the inspection with both eyes and the additional option for the connection of a camera	 POLAR	<b>Polarising unit</b> To polarise the light	 IP	<b>Protection against dust and water splashes IPxx</b> The type of protection is shown by the pictogram.
 ABBE	<b>Abbe Condenser</b> With high numerical aperture for the concentration and the focusing of light	 INFINITY	<b>Infinity system</b> Infinity corrected optical system	 BATT	<b>Battery operation</b> Ready for battery operation. The battery type is specified for each device.
 HAL	<b>Halogen illumination</b> For pictures bright and rich in contrast	 ZOOM	<b>Zoom magnification</b> For stereomicroscopes	 RECHARGE	<b>Battery operation rechargeable</b> Prepared for a rechargeable battery operation
 LED	<b>LED illumination</b> Cold, energy saving and especially long-life illumination	 PARALLEL	<b>Parallel optical system</b> For stereomicroscopes, enables fatigue-proof working	 230 V	<b>Mains adapter</b> 230V/50Hz in standard version for EU. On request GB, AUS or USA version.
 IL	<b>Incident illumination</b> For non-transparent objects	 SCALE	<b>Integrated scale</b> In the eyepiece	 230 V	<b>Power supply</b> Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, AUS or USA on request.
 TL	<b>Transmitting illumination</b> For transparent objects	 USB 2.0	<b>Integrated USB 2.0 digital camera</b> For direct transmitting of the picture to a PC	 1 DAY	<b>Package shipment</b> The time required to manufacture the product internally is shown in days in the pictogram.
 FL	<b>Fluorescence illumination</b> For stereomicroscopes	 USB 3.0	<b>Integrated USB 3.0 digital camera</b> For direct transmitting of the picture to a PC	 3 YEARS WARRANTY	<b>Warranty</b> The warranty period is shown in the pictogram.
 FL-HBO	<b>Fluorescence illumination for compound microscopes</b> With 100 W mercury lamp and filter	 HDMI	<b>HDMI digital camera</b> For direct transmitting of the picture to a display device		

## Abbreviations

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

## Your KERN specialist dealer: