



Stage



Camera connection and coaxial coarse and fine focusing knob

**PROFESSIONAL LINE**

The professional inverted model for the experienced user in the laboratory

**Features**

- The KERN OCO models are very easy to use, robust and stable inverted microscopes for all common routine applications, producing impressive images.
- These binocular microscopes are equipped with wide field eyepieces with a large field of view, diopter adjustment and infinity corrected plan achromatic objectives as standard.
- A nosepiece for up to 5 objectives, a camera mount including a 0,5x C mount adapter and a phase contrast set are also provided as standard with the microscope.
- A large, mechanically adjustable or fixed stage is fitted, depending on the model.
- The Abbe condenser with its aperture diaphragm and the long 72 mm working distance, together with the fine, 0,001 mm scale focus, round off the features of this high-quality microscope.
- The following optional accessories are available: A variety of eyepieces, objectives for a large working distance, a fixed stage and much more.
- One of the central features of this variable and simultaneously robust series of inverted microscopes is the stable and precisely adjustable mechanism.

**Technical data**

- Eyepieces: WF 10x20 mm
- Objectives: 10x / 20x / 40x und 20xPH
- Connection for cameras
- Overall dimensions WxDxH 350x600x600 mm
- Net weight approx. 26,5 kg

Please find detailed information in the following charts.

STANDARD



OPTION



Model	Standard configuration		
	Optical system	Tube	Illumination
<b>KERN</b>			
<b>OCO 255</b>	Infinity	Binocular	6V / 30W Halogen (transmitting)
<b>OCO 256</b>	Infinity	Binocular	6V / 30W Halogen (transmitting)

Model outfit		Model KERN		Order number	
		OCO 255	OCO 256		
<b>Eyepieces</b>	HWF 10x / Ø 20 mm	●●	●●	OBB-A2503	
	WF 16x / Ø 13 mm	○○	○○	OBB-A2507	
	HWF 10x / Ø 20 mm (reticule 0,1 mm)	○	○	OBB-A2410	
	HWF 10x / Ø 22 mm	○○	○○	OBB-A2409	
<b>Infinity Plan achromatic objectives</b> (for long working distance)	4x / 0,13	○	○	OBB-A2413	
	10x / 0,25	●	●	OBB-A2414	
	20x / 0,40	●	●	OBB-A2415	
	40x / 0,60	●	●	OBB-A2416	
	60x / 0,70	○	○	OBB-A2417	
<b>Binocular tube</b>	<ul style="list-style-type: none"> <li>• 45° inclined</li> <li>• Interpupillary distance: 52 – 75 mm</li> <li>• With diopter adjustment (one-sided)</li> </ul>	●	●	OBB-A2501	
	<ul style="list-style-type: none"> <li>• 45° inclined</li> <li>• Interpupillary distance: 48 – 75 mm</li> <li>• With diopter adjustment (one-sided)</li> </ul>	○	○	OBB-A2502	
<b>Nosepiece</b>	Quintuple	●	●		
<b>Mechanical stage</b>	<ul style="list-style-type: none"> <li>• Stage size: WxD 350x208 mm</li> <li>• Travel: 50x50 mm</li> <li>• Coaxial coarse and fine focusing knobs</li> </ul>		●		
	Drop specimen holder (Ø 118)		●	OBB-A2520	
<b>Fixed stage</b>	<ul style="list-style-type: none"> <li>• Stage size: WxD 240x260 mm</li> <li>• Travel: 135x85 mm</li> </ul>	●			
	Drop specimen holder (Ø 118)	●		OBB-A2520	
	Specimen holder for 54 mm culture dish	●		OBB-A2522	
	Specimen holder for 96-hole microtitre plate	○		OBB-A2521	
	Specimen holder for 60 mm culture dish	○		OBB-A2560	
	Specimen holder for 65 mm culture dish	○		OBB-A2561	
	Specimen holder for 30 mm culture dish	○		OBB-A2562	
<b>Condenser</b>	Abbe N.A. 0,3 (aperture diaphragm) LWD 72 mm	●	●		
<b>Illumination</b>	6V / 30W Halogen (transmitting)	●	●	OBB-A2440	
<b>Phase contrast unit</b>	Phase contrast slide	●	●	OBB-A2432	
	Infinity plan achromatic PH-objective 10x	○	○	OBB-A2418	
	Infinity plan achromatic PH-objective 20x	●	●	OBB-A2419	
	Infinity plan achromatic PH-objective 40x	○	○	OBB-A2420	
	Centering telescope	●	●	OBB-A2506	
<b>C-Mount</b>	0,5x	●	●	OBB-A2531	
	0,25x	○	○	OBB-A2532	
<b>Filter</b>	Filter holder	●	●	OBB-A1357	
	Blue (Ø 34 mm)	●	●	OBB-A2434	
	Green (Ø 34 mm)	●	●	OBB-A2435	
	Yellow (Ø 34 mm)	●	●	OBB-A2436	

● = Standard configuration

○ = Option

 <b>360°</b>	<b>360° rotatable microscope head</b>	 <b>FL-HB0</b>	<b>Fluorescence illumination for compound microscopes</b> With 100 W mercury lamp and filter	 <b>AUTO ATC</b>	<b>Automatic temperature compensation</b> For measurements between 10 °C and 30 °C
 <b>MONO</b>	<b>Monocular Microscope</b> For the inspection with one eye	 <b>FL-LED</b>	<b>Fluorescence illumination for compound microscopes</b> With 3 W LED illumination and filter	 <b>IP</b>	<b>Protection against dust and water splashes IPxx</b> The type of protection is shown by the pictogram.
 <b>BINO</b>	<b>Binocular Microscope</b> For the inspection with both eyes	 <b>PH</b>	<b>Phase contrast unit</b> For a higher contrast	 <b>BATT</b>	<b>Battery operation</b> Ready for battery operation. The battery type is specified for each device.
 <b>TRINO</b>	<b>Trinocular Microscope</b> For the inspection with both eyes and the additional option for the connection of a camera	 <b>POLAR</b>	<b>Polarising unit</b> To polarise the light	 <b>ACCU</b>	<b>Rechargeable battery pack</b> Rechargeable set.
 <b>ABBE</b>	<b>Abbe Condenser</b> With high numerical aperture for the concentration and the focusing of light	 <b>INFINITY</b>	<b>Infinity system</b> Infinity corrected optical system	 <b>230 V</b>	<b>Mains adapter</b> 230V/50Hz in standard version for EU. On request GB, AUS or USA version.
 <b>HAL</b>	<b>Halogen illumination</b> For pictures bright and rich in contrast	 <b>ZOOM</b>	<b>Zoom magnification</b> For stereomicroscopes	 <b>230 V</b>	<b>Power supply</b> Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, AUS or USA on request.
 <b>LED</b>	<b>LED illumination</b> Cold, energy saving and especially long-life illumination	 <b>PARALLEL</b>	<b>Parallel optical system</b> For stereomicroscopes, enables fatigue-proof working	 <b>DAYS</b>	<b>Package shipment</b> The time required to manufacture the product internally is shown in days in the pictogram.
 <b>IL</b>	<b>Incident illumination</b> For non-transparent objects	 <b>SCALE</b>	<b>Integrated scale</b> In the eyepiece	 <b>3 YEARS WARRANTY</b>	<b>Warranty</b> The warranty period is shown in the pictogram.
 <b>TL</b>	<b>Transmitting illumination</b> For transparent objects	 <b>USB 2.0</b>	<b>Integrated USB 2.0 digital camera</b> For direct transmitting of the picture to a PC		
 <b>FL</b>	<b>Fluorescence illumination</b> For stereomicroscopes	 <b>USB 3.0</b>	<b>Integrated USB 3.0 digital camera</b> For direct transmitting of the picture to a PC		

## Abbreviations

<b>C-Mount</b>	Adapter for the connection of a camera to a trinocular microscope	<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)
<b>LWD</b>	Long Working Distance	<b>SWF</b>	Super Wide Field (Field number at least Ø 23 mm for 10x eyepiece)		

## Your KERN specialist dealer:



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