



Nosepiece and stage



Abbe condenser center-adjustable, also available with swing-out lens



Quintuple hole turret with 10x / 20x / 40x / 100x Infinity-PH-Plan objectives (complete set)

**PROFESSIONAL LINE**

The flexible expandable model for the experienced user

**Features**

- The KERN OBN 132 is an excellent and stable laboratory microscope for all common routine applications for impressive images.
- These trinocular microscopes are equipped with wide field eyepieces with a large field of view, diopter adjustment on both sides and infinity corrected plan achromatic objectives as standard.
- The professional Koehler illumination is easily adjustable. It includes an adjustable field diaphragm, and a centerable and height adjustable Abbe condenser with adjustable aperture diaphragm. This provides impressive images in both bright and dark field applications.
- A nosepiece for up to five objectives and a large stage are provided as standard.
- The following optional accessories are available: A variety of eyepieces, objectives, a complete polarisation kit, a swing-out condenser, diverse phase contrast sets, complete HBO and LED fluorescence kits, and more.
- One of the central features of this highly variable and simultaneously robust series of microscopes is the stable and precisely adjustable mechanism. This is underlined by the functional and ergonomic design.

**Technical data**

- Eyepieces: WF 10x20 mm
- Objectives: 4x / 10x / 20x / 40x / 100x
- Overall dimensions WxDxH 306x200x395 mm
- Net weight approx. 10 kg

Please find detailed information in the following charts.

STANDARD



OPTION



<b>Model</b>	Standard configuration		
<b>KERN</b>	Optical system	Tube	Illumination
<b>OBN 132</b>	Infinity	Trinocular	6V / 20W Halogen (transmitting)

Model outfit		Model KERN	Order number	
		OBN 132		
Eyepieces	WF 10x / Ø 18 mm	∞∞	OBB-A1347	
	WF 10x / Ø 20 mm	●●	OBB-A1351	
	WF 16x / Ø 13 mm	∞∞	OBB-A1354	
	WF 10x / Ø 18 mm (reticule 0,1 mm) (adjustable)	○	OBB-A1350	
	WF 10x / Ø 20 mm (reticule 0,1 mm) (adjustable)	○	OBB-A1352	
Infinity Plan achromatic objectives	4x / 0,10	●	OBB-A1263	
	10x / 0,25	●	OBB-A1243	
	20x / 0,40	●	OBB-A1250	
	40x / 0,66 (spring)	●	OBB-A1257	
	100x / 1,25 (oil) (spring)	●	OBB-A1240	
	2,5x / 0,07	○	OBB-A1247	
	60x / 0,80 (spring)	○	OBB-A1270	
Tube Binocular	<ul style="list-style-type: none"> <li>• Siedentopf, 30° inclined, 360° rotatable</li> <li>• Interpupillary distance: 50 – 75 mm</li> <li>• With diopter adjustment (both-sided)</li> </ul>	○	OBB-A1125	
Trinocular tube	<ul style="list-style-type: none"> <li>• Siedentopf, 30° inclined, 360° rotatable</li> <li>• Interpupillary distance: 50 – 75 mm</li> <li>• Light distribution: 100:0</li> <li>• With diopter adjustment (both-sided)</li> </ul>	●	OBB-A1344	
Nosepiece	Quintuple	●		
Mechanical stage	<ul style="list-style-type: none"> <li>• Stage size: WxD 190x140 mm</li> <li>• Travel: 78x55 mm</li> <li>• Coaxial coarse and fine focusing knobs</li> <li>• Two slide holder</li> </ul>	●		
Condenser	Abbe N.A. 1,25 center-adjustable (aperture diaphragm)	●	OBB-A1102	
	Swing-out condenser N.A. 0,9 / 0,13 center-adjustable (aperture diaphragm)	○	OBB-A1104	
Koehler illumination	6V / 20W Halogen (transmitting)	●	OBB-A1204	
Polarising unit	Analyser / Polariser	○	OBB-A1283	
Phase contrast unit	Quintuple hole turret with 10x / 20x / 40x / 100x Infinity-PH-Plan objectives (complete set)	○	OBB-A1237	
	Independent slot with ∞ PH-Plan objective 10x	○	OBB-A1214	
	Independent slot with ∞ PH-Plan objective 20x	○	OBB-A1216	
	Independent slot with ∞ PH-Plan objective 40x	○	OBB-A1218	
	Independent slot with ∞ PH-Plan objective 100x	○	OBB-A1212	
Darkfield unit	N.A. 0,9 (Dry) Usable for 4x – 40x objectives	○	OBB-A1150	
C-Mount	1x	○	OBB-A1140	
	0,57x (focus adjustable)	○	OBB-A1136	
Fluorescence unit	100W HBO Epi Fluorescence unit 6-filter disc (UV / V / B / G) including centering objective	○	OBB-A1155	
	100W HBO Epi Fluorescence unit, two-hole slide (B / G) including centering objective	○	OBB-A1153	
	3W LED Epi Fluorescence unit (B / G) including centering objective	○	OBB-A1156	
Field diaphragm	Field diaphragm	●		
Filter	Blue	●	OBB-A1170	
	Green	○	OBB-A1187	
	Yellow	○	OBB-A1201	
	Grey	○	OBB-A1183	

● = 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: