



Trinocular version



Simple polarising attachment

LAB LINE

The high-performance compound microscope for every laboratory with fixed, pre-centred Koehler illumination

Features

- The KERN OBF models are excellent, stable laboratory microscopes for all common routine applications. A central feature of this adaptable, robust microscope series is the stable mechanism which can be adjusted precisely
- Depending on the application, there is a choice of models with strong, continuously dimmable 3 W LED or 20 W halogen illumination (Philips)
- 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 as well as a darkfield condenser and a simple polarising unit are available to you as accessories
- A protective dust cover, eye cups, as well as multi-lingual user instructions are included in the scope of delivery
- A C-mount adapter is required to connect a camera to the trinocular version. You can select this adapter from the following model outfit list
- Please find detailed information in the following model outfit list

Scope of application

- Haematology, urology, gynaecology, dermatology, pathology, microbiology and parasitology, immunology, oncology, entomology, vets, water analysis and breweries

Applications/Samples

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

Technical data

- Finite optical system (DIN)
- Quadplex nosepiece
- Siedentopf 30° inclined/360° rotatable
- Diopter adjustment: One-sided
- Overall dimensions W×D×H
395×200×380 mm
- Net weight approx. 6,7 kg

STANDARD



OPTION



Model	Standard configuration					
	Tube	Eyepiece	Objective quality	Objectives	Illumination	
KERN						
OBF 121	Binocular	HWF 10×/ø 18 mm	Achromatic	4×/10×/40×/100×	6 V/20 W Halogen (transmitted)	↓
OBF 122	Binocular	HWF 10×/ø 18 mm	Plan		6 V/20 W Halogen (transmitted)	↓
OBF 123	Binocular	HWF 10×/ø 18 mm	Plan		3 W LED (transmitted)	↓
OBF 131	Trinocular	HWF 10×/ø 18 mm	Achromatic		6 V/20 W Halogen (transmitted)	↓
OBF 132	Trinocular	HWF 10×/ø 18 mm	Plan		6 V/20 W Halogen (transmitted)	↓
OBF 133	Trinocular	HWF 10×/ø 18 mm	Plan		3 W LED (transmitted)	↓

↓ Price reduction

Model outfit		Model KERN						Order number	
		OBF 121	OBF 131	OBF 122	OBF 132	OBF 123	OBF 133		
Eyepieces (23,2 mm)	HWF 10×/ø 18 mm	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	OBB-A1403	
	WF 16×/ø 13 mm	○	○	○	○	○	○	OBB-A1354	
	HWF 10×/ø 18 mm (with Pointer)	○	○	○	○	○	○	OBB-A1348	
	HWF 10×/ø 18 mm (reticule 0,1 mm) (non-adjustable)	○	○	○	○	○	○	OBB-A1349	
Achromatic objectives	4×/0,10 W.D. 18,6 mm	✓	✓					OBB-A1111	
	10×/0,25 W.D. 6,5 mm	✓	✓					OBB-A1108	
	40×/0,65 (spring) W.D. 0,47 mm	✓	✓					OBB-A1112	
	100×/1,25 (oil) (spring) W.D. 0,07 mm	✓	✓					OBB-A1109	
	20×/0,40 (spring) W.D. 1,75 mm	○	○					OBB-A1110	
	60×/0,85 (spring) W.D. 0,1 mm	○	○					OBB-A1113	
Plan objectives	4×/0,10 W.D. 14,5 mm			✓	✓	✓	✓	OBB-A1255	
	10×/0,25 W.D. 5,65 mm			✓	✓	✓	✓	OBB-A1238	
	40×/0,65 (spring) W.D. 0,85 mm			✓	✓	✓	✓	OBB-A1256	
	100×/1,25 (oil) (spring) W.D. 0,07 mm			✓	✓	✓	✓	OBB-A1239	
	20×/0,40 (spring) W.D. 1,5 mm			○	○	○	○	OBB-A1249	
	60×/0,85 (spring) W.D. 0,07 mm			○	○	○	○	OBB-A1269	
	100×/1,0 (water) (spring) W.D. 0,18 mm	○	○	○	○	○	○	OBB-A1441	
Binocular tube	• Siedentopf 30° inclined/360° rotatable • Interpupillary distance 50 – 75 mm (for non-infinity system) • Diopter adjustment: One-sided	✓	○	✓	○	✓	○	OBB-A1129	
Trinocular tube	• Siedentopf 30° inclined/360° rotatable • Interpupillary distance 50 – 75 mm • Light distribution 20:80 (for non-infinity system) • Diopter adjustment: One-sided	○	✓	○	✓	○	✓	OBB-A1345	
Mechanical stage	• Stage size W×D 145×130 mm • Travel 76×52 mm • Coaxial coarse and fine focusing knobs, scale: 2 µm • Two slide holder	✓	✓	✓	✓	✓	✓		
Condenser	Abbe N.A. 1,25 precentered (aperture diaphragm)	✓	✓	✓	✓	✓	✓	OBB-A1103	
Darkfield condenser	N.A. 0,85 – 0,91 (dry, paraboloid)	○	○	○	○	○	○	OBB-A1422	
Illumination	6 V/20 W Halogen spare bulb (transmitted)	✓	✓	✓	✓			OBB-A1370	
	3 W LED illumination system (transmitted) (non-rechargeable)					✓	✓		
Polarising unit	Analyser/Polariser	○	○	○	○	○	○	OBB-A1277	
Colour filters for transmitted illumination	Blue (built-in)	✓	✓	✓	✓	✓	✓		
	Green	○	○	○	○	○	○	OBB-A1188	
	Yellow	○	○	○	○	○	○	OBB-A1165	
	Gray	○	○	○	○	○	○	OBB-A1183	
C-Mount	0,47× (focus adjustable)		○		○		○	OBB-A1135	
	1×		○		○		○	OBB-A1142	

✓ = Included with delivery

○ = Option

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

Abbreviations

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

Your KERN specialist dealer: