

Compound microscope KERN OBF-1



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×	20 W Halogen (transmitted)
OBF 122	Binocular	HWF 10×/ø 18 mm	Plan		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		20 W Halogen (transmitted)
OBF 132	Trinocular	HWF 10×/ø 18 mm	Plan		20 W Halogen (transmitted)
OBF 133	Trinocular	HWF 10×/ø 18 mm	Plan		3 W LED (transmitted)

ONLY WHILE STOCKS LAST

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Model outfit		Model KERN						Order number
		OBF 121	OBF 131	OBF 122	OBF 132	OBF 123	OBF 133	
Eyepieces (23,2 mm)	HWF 10×/∅ 18 mm	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	OBB-A1403
	WF 16×/∅ 13 mm	○○	○○	○○	○○	○○	○○	OBB-A1354
	HWF 10×/∅ 18 mm (with Pointer)	○	○	○	○	○	○	OBB-A1348
	HWF 10×/∅ 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-loaded) W.D. 0,47 mm	✓	✓					OBB-A1112
	100×/1,25 (oil) (spring-loaded) W.D. 0,07 mm	✓	✓					OBB-A1109
	20×/0,40 (spring-loaded) W.D. 1,75 mm	○	○					OBB-A1110
	60×/0,85 (spring-loaded) 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-loaded) W.D. 0,85 mm			✓	✓	✓	✓	OBB-A1256
	100×/1,25 (oil) (spring-loaded) W.D. 0,07 mm			✓	✓	✓	✓	OBB-A1239
	20×/0,40 (spring-loaded) W.D. 1,5 mm			○	○	○	○	OBB-A1249
	60×/0,85 (spring-loaded) W.D. 0,07 mm			○	○	○	○	OBB-A1269
	100×/1,0 (water) (spring-loaded) W.D. 0,18 mm	○	○	○	○	○	○	OBB-A1441
Binocular tube	<ul style="list-style-type: none"> • Siedentopf 30° inclined/360° rotatable • Interpupillary distance 50 – 75 mm (for non-infinity system) • Diopter adjustment: One-sided 	✓	○	✓	○	✓	○	OBB-A1129
Trinocular tube	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	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
	Grey	○	○	○	○	○	○	OBB-A1183
C-Mount	0,47× (focus adjustable)				○		○	OBB-A1135
	0,5× (focus adjustable)		○					OBB-A1515
	1×				○		○	OBB-A1142
			○					OBB-A1514

✓ = Included with delivery

○ = Option

Pictograms

360° rotatable microscope head	Fluorescence illumination for compound microscopes With 3 W LED illumination and filter	WLAN data interface For transmitting of the picture to a mobile display device
Monocular Microscope For the inspection with one eye	Phase contrast unit For a higher contrast	HDMI digital camera For direct transmitting of the picture to a display device
Binocular Microscope For the inspection with both eyes	Darkfield condenser/unit For a higher contrast due to indirect illumination	PC software To transfer the measurements from the device to a PC
Trinocular Microscope For the inspection with both eyes and the additional option for the connection of a camera	Polarising unit To polarise the light	Automatic temperature compensation For measurements between 10 °C and 30 °C
Abbe Condenser With high numerical aperture for the concentration and the focusing of light	Infinity system Infinity corrected optical system	Protection against dust and water splashes IPxx The type of protection is shown by the pictogram
Halogen illumination For pictures bright and rich in contrast	Zoom magnification For stereomicroscopes	Battery operation Ready for battery operation. The battery type is specified for each device
LED illumination Cold, energy-saving and especially long-life illumination	Parallel optical system For stereomicroscopes, enables fatigue-proof working	Battery operation rechargeable Prepared for a rechargeable battery operation
Incident illumination For non-transparent objects	Integrated scale In the eyepiece	Mains adapter 230V/50Hz in standard version for EU. On request GB, AUS or USA version
Transmitting illumination For transparent objects	SD card For data storage	Power supply Integrated in microscope. 230V/50Hz standard EU. More standards e.g. GB, AUS or USA on request
Fluorescence illumination for stereomicroscopes	USB 2.0 digital camera For direct transmitting of the picture to a PC	Package shipment The time required to manufacture the product internally is shown in days in the pictogram
Fluorescence illumination for compound microscopes With 100 W mercury lamp and filter	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 \varnothing 23 mm for 10 \times 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 camera Single-Lens Reflex camera	WF Wide Field (Field number up to \varnothing 22 mm for 10 \times eyepiece)

Your KERN specialist dealer: