

Compound microscope KERN OBF-1 · OBL-1



trinocular and phase contrast model. KERN OBL-1 also available with EPI fluorescence illumination unit on request

Also available as digital,



PROFESSIONAL CARE





The high-performance compound microscope for every laboratory, hospitals and doctor's practice with fixed, pre-centred Koehler illumination

Features

- The KERN OBF-1 and OBL-1 models are excellent, stable laboratory microscopes for all common routine applications
- · Depending on the application, there is a choice of models with strong, continuously dimmable 3 W LED or 20 W halogen illumination (Philips)
- In Trinocular models as well as specially pre-configured phase contrast models available, please feel free to contact us
- 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 , which can be focused quickly and easily by a coaxial coarse and fine drive on both sides

- A large selection of eyepieces, 2 objectives and colour filters as well as a darkfield condenser, a simple **3** polarising unit, different 4 phase contrast kits through to HBO and LED fluorescence units 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 refer to the website for further details as well as information on the full range of model features

Scope of application

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

Applications/Samples

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

Technical data

- · Finite optical system DIN (OBF)/ Infinity optical system (OBL)
- 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



Model	Standard configuration					
KERN	Tube	Eyepiece	Objective quality	Objectives	Illumination	
OBF 121	Binocular	HWF 10×/Ø 18 mm	Achromatic		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	4×/10×/	6 V/20 W Halogen (transmitted)	
OBF 133	Trinocular	HWF 10×/Ø 18 mm	Plan	40×/100×	3 W LED (transmitted)	
OBL 125	Binocular	HWF 10×/Ø 20 mm	Infinity E-Plan		6 V/20 W Halogen (transmitted)	
OBL 127	Binocular	HWF 10×/Ø 20 mm	Infinity E-Plan		3 W LED (transmitted)	
OBL 135	Trinocular	HWF 10×/Ø 20 mm	Infinity E-Plan		6 V/20 W Halogen (transmitted)	
OBL 137	Trinocular	HWF 10×/Ø 20 mm	Infinity E-Plan		3 W LED (transmitted)	



360° rotatable

microscope head

Monocular Microscope:

Binocular Microscope:

For the inspection with one eye.

For the inspection with both eyes

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360°

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MONO

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Pictograms



Adjusting program CAL: For quick setting up of the balance's

accuracy. External adjusting weight required.



Memory: Balance memory capacity, e.g. for article

data, weighing data, tare weights, PLU etc.



Data interface RS-232:

To connect the balance to a printer, PC or network



RS-485 data interface: To connect the balance to a printer, PC or

other peripherals. Suitable for data transfer over large distances. Network in bus topology is possible

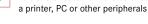


KERN Communication Protocol (KCP): It is a standardized interface command set

for KERN balances and other instruments, which allows retrieving and controlling all relevant parameters and functions of the device. KERN devices featuring KCP are thus easily integrated with computers, industrial controllers and other digital systems



Bluetooth* data interface: To transfer data from the balance to



Control outputs (optocoupler, digital I/O): To connect relays, signal lamps, valves, etc.



STATISTIC

Statistics:

using the saved values, the device calculates statistical data, such as average value, standard deviation etc.



PC Software: to transfer the measurements from the device to a PC



GLP/ISO-Protokoll: With date and time. Only with KERN printers

Piece counting: Reference quantities selectable. Display can be switched from piece to weight

Totalising level A: The weights of similar items can be added



SUM

Weighing units:

Can be switched to e.g. nonmetric units at the touch of a key. Please refer to website for more details

together and the total can be printed out.



Weighing with tolerance range:

(Check weighing) Upper and lower limiting can be programmed individually, e.g. for sorting and dosing. The process is supported by an audible or visual signal, see the relevant model





ZERO: Resets the display to "0"



When patients do not stand, sit or lie MOVE completely still, a stable weight is calculated using an average weight



When the weighing conditions are unstable, MOVE a stable weight is calculated as an average value



splashes IPxx: The type of protection is shown in the pictogram.

Stainless steel:



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Suspended weighing: Load support with hook on the underside UNDER of the balance.

Battery operation: Ready for battery operation. The battery BATT type is specified for each device.



Rechargeable battery pack: Rechargeable set.



Battery operation rechargable: Prepared for a rechargable battery operation



Universal mains adapter: with universal input and optional input socket adapters for A) EU, CH B) EU, CH, GB, USA



Mains adapter: 230V/50Hz in standard version for EU. On request GB, AUS or USA version available.



Power supply: Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, AUS or USA on



Weighing principle: Strain gauges Electrical resistor on an elastic deforming body.



request.

Peak hold function: capturing a peak value within a measuring process.

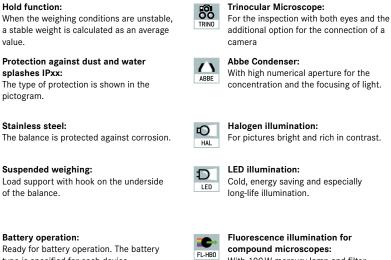


Push and Pull: the measuring device can capture PUSH/PULL tension and compression forces.

Integrated scale:

In the evepiece.





Fluorescence illumination for compound microscopes: With 100W mercury lamp and filter.



Fluorescence illumination for compound microscopes: With 3W LED illumination and filter.



Phase contrast unit: For a higher contrast.



Darkfield condenser/unit: For a higher contrast due to indirect illumination



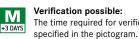
Polarising unit: To polarise the light.



Infinity system: Infinity corrected optical system.



Automatic temperature compesation: For measurements between 10 °C and 30 °C



Verification possible: The time required for verification is

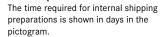


Package shipment:



Pallet shipment:

pictogram.



The time required for internal shipping

preparations is shown in days in the

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