

Compound microscope KERN OBF-1 · OBL-1

PROFESSIONAL CARE



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



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)
- **1** 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

STANDARD













































OPTION



Model	Standard configuration				
	Tube	Eyepiece	Objective quality	Objectives	Illumination
<b>OBF 121</b>	Binocular	HWF 10×/ø 18 mm	Achromatic	4×/10×/ 40×/100×	6 V/20 W Halogen (transmitted)
<b>OBF 122</b>	Binocular	HWF 10×/ø 18 mm	Plan		6 V/20 W Halogen (transmitted)
<b>OBF 123</b>	Binocular	HWF 10×/ø 18 mm	Plan		3 W LED (transmitted)
<b>OBF 131</b>	Trinocular	HWF 10×/ø 18 mm	Achromatic		6 V/20 W Halogen (transmitted)
<b>OBF 132</b>	Trinocular	HWF 10×/ø 18 mm	Plan		6 V/20 W Halogen (transmitted)
<b>OBF 133</b>	Trinocular	HWF 10×/ø 18 mm	Plan		3 W LED (transmitted)
<b>OBL 125</b>	Binocular	HWF 10×/ø 20 mm	Infinity E-Plan		6 V/20 W Halogen (transmitted)
<b>OBL 127</b>	Binocular	HWF 10×/ø 20 mm	Infinity E-Plan		3 W LED (transmitted)
<b>OBL 135</b>	Trinocular	HWF 10×/ø 20 mm	Infinity E-Plan		6 V/20 W Halogen (transmitted)
<b>OBL 137</b>	Trinocular	HWF 10×/ø 20 mm	Infinity E-Plan		3 W LED (transmitted)

## Pictograms

 <b>Adjusting program CAL:</b> For quick setting up of the balance's accuracy. External adjusting weight required.	 <b>ZERO:</b> Resets the display to "0"	 <b>360° rotatable microscope head</b>
 <b>Memory:</b> Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.	 <b>Hold function:</b> When patients do not stand, sit or lie completely still, a stable weight is calculated using an average weight	 <b>Monocular Microscope:</b> For the inspection with one eye.
 <b>Data interface RS-232:</b> To connect the balance to a printer, PC or network	 <b>Hold function:</b> When the weighing conditions are unstable, a stable weight is calculated as an average value.	 <b>Binocular Microscope:</b> For the inspection with both eyes
 <b>RS-485 data interface:</b> To connect the balance to a printer, PC or other peripherals. Suitable for data transfer over large distances. Network in bus topology is possible	 <b>Protection against dust and water splashes IPxx:</b> The type of protection is shown in the pictogram.	 <b>Trinocular Microscope:</b> For the inspection with both eyes and the additional option for the connection of a camera
 <b>KERN Communication Protocol (KCP):</b> 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	 <b>Stainless steel:</b> The balance is protected against corrosion.	 <b>Abbe Condenser:</b> With high numerical aperture for the concentration and the focusing of light.
 <b>Bluetooth® data interface:</b> To transfer data from the balance to a printer, PC or other peripherals	 <b>Suspended weighing:</b> Load support with hook on the underside of the balance.	 <b>Halogen illumination:</b> For pictures bright and rich in contrast.
 <b>Control outputs (optocoupler, digital I/O):</b> To connect relays, signal lamps, valves, etc.	 <b>Battery operation:</b> Ready for battery operation. The battery type is specified for each device.	 <b>LED illumination:</b> Cold, energy saving and especially long-life illumination.
 <b>Statistics:</b> using the saved values, the device calculates statistical data, such as average value, standard deviation etc.	 <b>Rechargeable battery pack:</b> Rechargeable set.	 <b>Fluorescence illumination for compound microscopes:</b> With 100W mercury lamp and filter.
 <b>PC Software:</b> to transfer the measurements from the device to a PC	 <b>Battery operation rechargeable:</b> Prepared for a rechargeable battery operation	 <b>Fluorescence illumination for compound microscopes:</b> With 3 W LED illumination and filter.
 <b>GLP/ISO-Protokoll:</b> With date and time. Only with KERN printers	 <b>Universal mains adapter:</b> with universal input and optional input socket adapters for A) EU, CH B) EU, CH, GB, USA	 <b>Phase contrast unit:</b> For a higher contrast.
 <b>Piece counting:</b> Reference quantities selectable. Display can be switched from piece to weight	 <b>Mains adapter:</b> 230V/50Hz in standard version for EU. On request GB, AUS or USA version available.	 <b>Darkfield condenser/unit:</b> For a higher contrast due to indirect illumination
 <b>Totalising level A:</b> The weights of similar items can be added together and the total can be printed out.	 <b>Power supply:</b> Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, AUS or USA on request.	 <b>Polarising unit:</b> To polarise the light.
 <b>Weighing units:</b> Can be switched to e.g. nonmetric units at the touch of a key. Please refer to website for more details	 <b>Weighing principle: Strain gauges</b> Electrical resistor on an elastic deforming body.	 <b>Infinity system:</b> Infinity corrected optical system.
 <b>Weighing with tolerance range:</b> (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	 <b>Peak hold function:</b> capturing a peak value within a measuring process.	 <b>Automatic temperature compensation:</b> For measurements between 10 °C and 30 °C
	 <b>Push and Pull:</b> the measuring device can capture tension and compression forces.	 <b>Verification possible:</b> The time required for verification is specified in the pictogram.
	 <b>Integrated scale:</b> In the eyepiece.	 <b>Package shipment:</b> The time required for internal shipping preparations is shown in days in the pictogram.
		 <b>Pallet shipment:</b> The time required for internal shipping preparations is shown in days in the pictogram.

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