

Compound microscope KERN OBN-1

PROFESSIONAL CARE



OBN-13



OBN-15

Professionalism and versatility united in one microscope – with Koehler illumination for demanding applications



Also available as fluorescence microscope

Features

- The OBN series stands out because of its unbeatable and consistently high quality and its ergonomic design. The range of modular components means that the OBN series can be individually customised for the professional user
- Depending on the application, there is a choice of models with strong, continuously dimmable 3 W LED or 20 W halogen transmitted illumination (Philips)
- In addition the halogen variant is available as a pre-configured phase contrast microscope, which, through the combination of a 2 professional quintuple condenser wheel, phase contrast condenser and Infinity Plan phase contrast objectives makes it a high-quality, fully-equipped microscope for all applications related to contrast procedures
- 1 This series has a professional Koehler illumination unit with an adjustable field diaphragm as well as a height-adjustable 1,25 Abbe condenser which can be centred and which has an adjustable aperture diaphragm
- The extremely large mechanical stage with ergonomic, coaxial coarse and fine focusing knob on both sides enables you to adjust and focus your sample rapidly and accurately
- A wide variety of modular systems, such as, for example, a swing-out condenser, various eyepieces, objectives, colour filters, phase contrast units, a darkfield condenser, a simple polarising unit, Butterfly Tube, through to complete fluorescence units are available to you as accessories
- This centring eyepiece for adjusting the phase contrast (OBN 158), 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. You can select this adapter from the following model outfit list

Scope of application

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

Applications/Samples

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

Technical data

- Infinity optical system
- Quintuple nosepiece
- Siedentopf 30° inclined/360° rotatable
- Diopter adjustment: Both-sided
- Overall dimensions W×D×H 390×200×400 mm
- Net weight approx. 9 kg

Please refer to the website for further details as well as information on the full range of model features

STANDARD



OPTION



Model	Standard configuration				
	Tube	Eyepiece	Objective quality	Objectives	Illumination
KERN OBN 132	Trinocular	HWF 10×/ø 20 mm	Infinity Plan	4×/10×/20×/40×/100×	6 V/20 W Halogen (transmitted)
OBN 135	Trinocular	HWF 10×/ø 20 mm	Infinity Plan	4×/10×/20×/40×/100×	3 W LED (transmitted)
OBN 158	Trinocular	HWF 10×/ø 20 mm	Infinity Plan	4×/PH10×/PH20×/PH40×/PH100×	6 V/20 W Halogen (transmitted)
OBN 141	Trinocular	WF 10×/ø 20 mm	Infinity Plan	4×/10×/20×/40×/100×	LED + 3 W LED Epi Fluorescence (B/G)
OBN 147	Trinocular	WF 10×/ø 20 mm	Infinity Plan		Halogen + 100 W Epi Fluorescence (B/G)
OBN 148	Trinocular	WF 10×/ø 20 mm	Infinity Plan		Halogen + 100 W Epi Fluorescence (B/G/UV/V)

Pictograms

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

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