



**Note:** Please request special conditions for a classroom set



Monocular version



Trinocular version



Butterfly tube

## Educational Line

### Elegant, dynamic and impressive – the all-round compound microscope for schools, training and laboratories

#### Features

- The OBE-12/13 range stands out through its exclusive, dynamic device, which is second to none in terms of sturdy construction and ergonomics. The clever storage compartment on the back will enable quick practical storage for your power cable. Thanks to the USB connection technology, it is also possible to supply power using an external powerbank
- The impressive, infinitely dimmable 3 W LED guarantees bright illumination of your sample
- A further highlight is the butterfly lens barrel which enables you to achieve the ideal viewing angle and is integrated as standard on all binocular and trinocular models. The height-adjustable and thereby focusable 1.25 Abbe condenser with aperture diaphragm is a further quality feature of the OBE range and guarantees the very best concentration of light

- Height adjustment of the fully-equipped mechanical stage is carried out using a coarse and fine focusing knob on both sides. The ergonomically designed coaxial drive enables you to work with the samples and move them rapidly
- A large selection of different eyepieces and objectives 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 the 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

- Training, haematology, sediment investigation, doctor's practise

#### Applications/Samples

- Translucent, thin, high-contrast, less complex samples (e.g. plant tissue, coloured cells/parasites)

#### Technical data

- Finite optical system
- Quadplex nosepiece
- Butterfly 30° inclined
- Monocular lens barrel 30° inclined
- Diopter adjustment: One-sided (for binocular and trinocular models)
- Overall dimensions W×D×H 360×150×320 mm
- Net weight approx. 4,6 kg

#### STANDARD



#### OPTION



#### Standard configuration

Model	Tube	Eyepiece	Objective quality	Objectives	Illumination
<b>KERN</b>					
<b>OBE 121</b>	Monocular	HWF 10×/ø 18 mm	Achromatic		3W LED (transmitted)
<b>OBE 122</b>	Binocular	HWF 10×/ø 18 mm	Achromatic	4×/10×/40×	3W LED (transmitted)
<b>OBE 124</b>	Trinocular	HWF 10×/ø 18 mm	Achromatic		3W LED (transmitted)
<b>OBE 131</b>	Monocular	HWF 10×/ø 18 mm	Achromatic		3W LED (transmitted)
<b>OBE 132</b>	Binocular	HWF 10×/ø 18 mm	Achromatic	4×/10×/40×/100×	3W LED (transmitted)
<b>OBE 134</b>	Trinocular	HWF 10×/ø 18 mm	Achromatic		3W LED (transmitted)

Model outfit		Model KERN						Order number
		OBE 121	OBE 122	OBE 124	OBE 131	OBE 132	OBE 134	
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-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
	E-Plan 100×/0,80 (dry) (spring-loaded) W.D. 0,15 mm	○	○	○	○	○	○	OBB-A1442
	Plan 100×/1,0 (water) (spring-loaded) W.D. 0,18 mm	○	○	○	○	○	○	OBB-A1441
Monocular tube	30° inclined	✓			✓			
Binocular tube	<ul style="list-style-type: none"> <li>Butterfly 30° inclined</li> <li>Interpupillary distance 48 – 75 mm</li> <li>Diopter adjustment: One-sided</li> </ul>		✓			✓		
Trinocular tube	<ul style="list-style-type: none"> <li>See binocular tube</li> <li>Light distribution 20:80</li> </ul>			✓			✓	
Mechanical stage	<ul style="list-style-type: none"> <li>Stage size W×D 125×115 mm</li> <li>Travel 50×70 mm</li> <li>Coaxial coarse and fine focusing knobs, scale: 2 µm</li> </ul>	✓	✓	✓	✓	✓	✓	
Condenser	Abbe N.A. 1,25 (aperture diaphragm)	✓	✓	✓	✓	✓	✓	OBB-A1101
Darkfield unit	Usable for 4× – 40× objectives	○	○	○	○	○	○	OBB-A1148
Illumination	3 W LED illumination system (transmitted)	✓	✓	✓	✓	✓	✓	
Colour filters for transmitted illumination	Blue	○	○	○	○	○	○	OBB-A1466
	Green	○	○	○	○	○	○	OBB-A1467
	Yellow	○	○	○	○	○	○	OBB-A1468
	Grey	○	○	○	○	○	○	OBB-A1184
C-Mount	0,5× (focus adjustable)			○			○	OBB-A1137
	1×			○			○	OBB-A1139

✓ = Included with delivery

○ = Option