

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



OBS 101



OBS 104



OBS 106



Objectives OBS

**Educational Line**  
**The school microscope – For the first steps in microscopy and for use in biology lessons**

**Features**

- The KERN OBS range is a solid and simple school microscope range, which is easy to use due to its intuitive control elements
- The continuously dimmable 0.5W LED guarantees optimum illumination of the samples and also ensures long service life. Mobile use is also no problem through the use of rechargeable batteries
- The simple 0.65 condenser on the OBS 101 (condenser disc) and the OBS 102 (fixed condenser) ensures the very best concentration of light and illumination of the sample. The OBS 103, 104, 105 and 106 models have a 1.25

- Abbe condenser which is height-adjustable and can therefore be focussed and has an aperture diaphragm, which ensures the very best concentration of light
- To focus the object, all models have a coarse and fine focusing knob on both sides. The mechanical stage enables you to work with the samples and move them rapidly (only for OBS 105, 106)
- A large selection of different eyepieces and objectives is also available
- Please find detailed information in the following model outfit list

**Scope of application**

- Primary school, secondary school, training, hobby use

**Applications/Samples**

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

**Technical data**

- Finite optical system (DIN)
- Triple (OBS 101, 102) or quadplex (OBS 103, 104, 105, 106) nosepiece
- Tube 45° (OBS 101, 102, 103, 105) or 30° (OBS 104, 106) inclined/360° rotatable
- Diopter adjustment: Both-sided (for binocular models)
- Overall dimensions W×D×H 130×300×310 mm
- Net weight approx. 3 kg

STANDARD

360°

MONO

BINO

ABBE

LED

ACCU

230 V

1 DAY

not  
OBS 101, 102

Model	Standard configuration					
KERN	Tube	Eyepiece	Objective quality	Objectives	Illumination	Stage
OBS 101	Monocular	WF 10×/ø 18 mm	Achromatic	4×/10×/40×	0,5W LED (transmitted) (battery incl., rechargeable)	fix
OBS 102	Monocular	WF 10×/ø 18 mm	Achromatic		0,5W LED (transmitted) (battery incl., rechargeable)	fix
OBS 103	Monocular	WF 10×/ø 18 mm	Achromatic		0,5W LED (transmitted) (battery incl., rechargeable)	fix
OBS 104	Binocular	WF 10×/ø 18 mm	Achromatic		0,5W LED (transmitted) (battery incl., rechargeable)	fix
OBS 105	Monocular	WF 10×/ø 18 mm	Achromatic		0,5W LED (transmitted) (battery incl., rechargeable)	mechanical
OBS 106	Binocular	WF 10×/ø 18 mm	Achromatic		0,5W LED (transmitted) (battery incl., rechargeable)	mechanical

\*ONLY WHILE STOCKS LAST

## Compound Microscope KERN OBS-1

Model outfit		Model KERN						Order number
		OBS 101	OBS 102	OBS 103	OBS 104	OBS 105	OBS 106	
Eyepieces (23,2 mm)	WF 10×/∅ 18 mm	✓	✓	✓	✓✓	✓	✓✓	OBB-A1473
	WF 16×/∅ 13 mm	○	○	○	○○	○	○○	OBB-A1474
	WF 20×/∅ 11 mm	○	○	○	○○	○	○○	OBB-A1475
	WF 10×/∅ 18 mm (with Pointer)	○	○	○	○	○	○	OBB-A1561
Achromatic objectives	4×/0,10 W.D. 18,0 mm	✓	✓	✓	✓	✓	✓	OBB-A1476
	10×/0,25 W.D. 7,0 mm	✓	✓	✓	✓	✓	✓	OBB-A1477
	40×/0,65 (spring-loaded) W.D. 0,53 mm	✓	✓	✓	✓	✓	✓	OBB-A1478
	60×/0,85 (spring-loaded) W.D. 0,1 mm	○	○	○	○	○	○	OBB-A1479
	100×/1,25 (oil) (spring-loaded) W.D. 0,07 mm	○	○	○	○	○	○	OBB-A1480
E-Plan objectives	4×/0,10 W.D. 14,5 mm	○	○	○	○	○	○	OBB-A1562
	10×/0,25 W.D. 5,65 mm	○	○	○	○	○	○	OBB-A1563
	40×/0,65 (spring-loaded) W.D. 0,85 mm	○	○	○	○	○	○	OBB-A1564
	100×/1,25 (oil) (spring-loaded) W.D. 0,07 mm	○	○	○	○	○	○	OBB-A1565
	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	45° inclined/360° rotatable	✓	✓	✓		✓		OBB-A1471
Binocular tube	<ul style="list-style-type: none"> <li>45° inclined/360° rotatable</li> <li>Interpupillary distance 55-75 mm</li> <li>Diopter adjustment: Both-sided</li> </ul>				✓		✓	OBB-A1472
Fixed stage	<ul style="list-style-type: none"> <li>Stage size W×D 110×120 mm</li> <li>Coaxial coarse and fine focusing knobs, scale: 2,5 µm</li> </ul>	✓	✓	✓	✓			
Mechanical stage	<ul style="list-style-type: none"> <li>Stage size W×D 115×125 mm</li> <li>Travel 75×18 mm</li> <li>Coaxial coarse and fine focusing knobs, scale: 2,5 µm</li> </ul>					✓	✓	
Condenser	Simple condenser N.A. 0,65	✓						
	Simple condenser N.A. 0,65 (aperture diaphragm)		✓					
	Abbe N.A. 1,25 (aperture diaphragm)			✓	✓	✓	✓	
Illumination	0,5 W LED illumination system (transmitted) (rechargeable)	✓	✓	✓	✓	✓	✓	
Colour filters for transmitted illumination	Blue			✓	✓	✓	✓	OBB-A1466
	Green			○	○	○	○	OBB-A1467
	Yellow			○	○	○	○	OBB-A1468
	Grey			○	○	○	○	OBB-A1184

✓ = Included with delivery

○ = Option