



Note

Please request special conditions for a classroom set



Objectives OBS



OBS 101



OBS 104



OBS 106

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 WxDxH 130x300x310 mm
- Net weight approx. 3 kg

STANDARD



not OBS 101, 102

Model	Standard configuration						Price excl. of VAT ex works €
	Tube	Eyepiece	Objective quality	Objectives	Illumination	Stage	
OBS 101	Monocular	WF 10x/φ 18 mm	Achromatic	4x/10x/40x	0,5W LED (transmitted) (battery incl., rechargeable)	fix	185,-
OBS 102	Monocular	WF 10x/φ 18 mm	Achromatic		0,5W LED (transmitted) (battery incl., rechargeable)	fix	195,-
OBS 103	Monocular	WF 10x/φ 18 mm	Achromatic		0,5W LED (transmitted) (battery incl., rechargeable)	fix	199,-
OBS 104	Binocular	WF 10x/φ 18 mm	Achromatic		0,5W LED (transmitted) (battery incl., rechargeable)	fix	280,-
OBS 105	Monocular	WF 10x/φ 18 mm	Achromatic		0,5W LED (transmitted) (battery incl., rechargeable)	mechanical	245,-
OBS 106	Binocular	WF 10x/φ 18 mm	Achromatic		0,5W LED (transmitted) (battery incl., rechargeable)	mechanical	320,-

Model outfit		Model KERN						Order number	Price/piece excl. of VAT ex works €
		OBS 101	OBS 102	OBS 103	OBS 104	OBS 105	OBS 106		
Eyepieces (23,2 mm)	WF 10×/∅ 18 mm	✓	✓	✓	✓✓	✓	✓✓	OBB-A1473	30,-
	WF 16×/∅ 13 mm	○	○	○	○○	○	○○	OBB-A1474	30,-
	WF 20×/∅ 11 mm	○	○	○	○○	○	○○	OBB-A1475	30,-
	WF 10×/∅ 18 mm (with Pointer)	○	○	○	○	○	○	OBB-A1561	30,-
Achromatic objectives	4×/0,10 W.D. 18,0 mm	✓	✓	✓	✓	✓	✓	OBB-A1476	35,-
	10×/0,25 W.D. 7,0 mm	✓	✓	✓	✓	✓	✓	OBB-A1477	40,-
	40×/0,65 (spring-loaded) W.D. 0,53 mm	✓	✓	✓	✓	✓	✓	OBB-A1478	45,-
	60×/0,85 (spring-loaded) W.D. 0,1 mm	○	○	○	○	○	○	OBB-A1479	60,-
	100×/1,25 (oil) (spring-loaded) W.D. 0,07 mm	○	○	○	○	○	○	OBB-A1480	65,-
E-Plan objectives	4×/0,10 W.D. 14,5 mm	○	○	○	○	○	○	OBB-A1562	40,-
	10×/0,25 W.D. 5,65 mm	○	○	○	○	○	○	OBB-A1563	55,-
	40×/0,65 (spring-loaded) W.D. 0,85 mm	○	○	○	○	○	○	OBB-A1564	80,-
	100×/1,25 (oil) (spring-loaded) W.D. 0,07 mm	○	○	○	○	○	○	OBB-A1565	85,-
	100×/0,80 (dry) (spring-loaded) W.D. 0,15 mm	○	○	○	○	○	○	OBB-A1442	170,-
	Plan 100×/1,0 (water) (spring-loaded) W.D. 0,18 mm	○	○	○	○	○	○	OBB-A1441	175,-
Monocular tube	45° inclined/360° rotatable	✓	✓	✓		✓		OBB-A1471	
Binocular tube	<ul style="list-style-type: none"> • 30° inclined/360° rotatable • Interpupillary distance 55-75 mm • Diopter adjustment: Both-sided 				✓		✓	OBB-A1472	
Fixed stage	<ul style="list-style-type: none"> • Stage size W×D 110×120 mm • Coaxial coarse and fine focusing knobs, scale: 2,5 µm 	✓	✓	✓	✓				
Mechanical stage	<ul style="list-style-type: none"> • Stage size W×D 115×125 mm • Travel 75×18 mm • Coaxial coarse and fine focusing knobs, scale: 2,5 µm 					✓	✓		
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	19,-
	Green			○	○	○	○	OBB-A1467	19,-
	Yellow			○	○	○	○	OBB-A1468	19,-
	Grey			○	○	○	○	OBB-A1184	19,-

✓ = Included with delivery

○ = Option