



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 0,5 W 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 on the OBS 102 (fixed condenser) ensures the very best concentration of light and illumination of the sample. The OBS 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
- OBS 101, 102: 3-fold lens revolving unit
OBS 104, 105, 106: 4-fold lens revolving unit
- OBS 101, 102, 105: Tube 45° inclined/360° rotatable
OBS 104, 106: Tube 30° inclined/360° rotatable
- Diopter adjustment, both-sided (for binocular models)
- Overall dimensions W×D×H 130×300×310 mm
- Net weight
OBS 101, 102: approx. 2,2 kg
OBS 104, 105, 106: approx. 3,2 kg

STANDARD

OBS 104
- 106

Model	Tube	Eyepiece	Objective quality	Objectives	Illumination	Stage
-------	------	----------	-------------------	------------	--------------	-------

KERN

OBS 101*	Monocular	WF 10x/Ø 18 mm	achromatic	4x / 10x / 40x	0,5W LED (transmitted) (battery incl., rechargeable)	fix
OBS 102*	Monocular	WF 10x/Ø 18 mm	achromatic	4x / 10x / 40x	0,5W LED (transmitted) (battery incl., rechargeable)	fix
OBS 104*	Binocular	WF 10x/Ø 18 mm	achromatic	4x / 10x / 40x	0,5W LED (transmitted) (battery incl., rechargeable)	fix
OBS 105*	Monocular	WF 10x/Ø 18 mm	achromatic	4x / 10x / 40x	0,5W LED (transmitted) (battery incl., rechargeable)	mechanical
OBS 106*	Binocular	WF 10x/Ø 18 mm	achromatic	4x / 10x / 40x	0,5W LED (transmitted) (battery incl., rechargeable)	mechanical

! * ONLY WHILE STOCKS LAST

Note: Please request special conditions for a classroom set

Model outfit	Model KERN					Order number
	OBS 101	OBS 102	OBS 104	OBS 105	OBS 106	
Eyepieces (23,2 mm)	WF 10x/Ø 18 mm	✓	✓	✓✓	✓	✓✓ OBB-A1473
	WF 16x/Ø 13 mm	○	○	○○	○	○○ OBB-A1474
	WF 20x/Ø 11 mm	○	○	○○	○	○○ OBB-A1475
	WF 10x/Ø 18 mm (with Pointer)	○	○	○	○	○ OBB-A1561
Achromatic objectives	4x/0,1 W.D. 18 mm	✓	✓	✓	✓	✓ OBB-A1476
	10x/0,25 W.D. 7 mm	✓	✓	✓	✓	✓ OBB-A1477
	40x/0,65 (spring-loaded) W.D. 0,53 mm	✓	✓	✓	✓	✓ OBB-A1478
	60x/0,85 (spring-loaded) W.D. 0,1 mm	○	○	○	○	○ OBB-A1479
	100x/1,25 (oil) (spring-loaded) W.D. 0,07 mm	○	○	○	○	○ OBB-A1480
E-Plan objectives	4x/0,1 W.D. 14,5 mm	○	○	○	○	○ OBB-A1562
	10x/0,25 W.D. 5,65 mm	○	○	○	○	○ OBB-A1563
	40x/0,65 (spring-loaded) W.D. 0,85 mm	○	○	○	○	○ OBB-A1564
	100x/1,25 (oil) (spring-loaded) W.D. 0,07 mm	○	○	○	○	○ OBB-A1565
	E-Plan 100x/0,8 (dry) (spring-loaded) W.D. 0,15 mm	○	○	○	○	○ OBB-A1442
	Plan 100x/1 (water) (spring-loaded) W.D. 0,18 mm	○	○	○	○	○ OBB-A1441
Monocular tube	45° inclined/360° revolving	✓	✓		✓	OBB-A1471
Binocular tube	· Siedentopf 45° inclined/360° rotatable · Interpupillary distance 55 mm - 75 mm · Diopter adjustment both-sided			✓	✓	OBB-A1472
Fixed stage	· Stage size W×D 110×120 mm · Coaxial coarse and fine focusing knobs, scale: 2,5 µm	✓	✓	✓		OBB-A1483
Mechanical stage	· Stage size B×T 125×115 mm · Travel 75×18 mm · Coaxial coarse and fine focusing knobs, scale: 2,5 µm				✓	✓ OBB-A1484
Condenser	Simple condenser N.A. 0,65	✓				OBB-A1486
	Simple condenser N.A. 0,65 (with aperture diaphragm)		✓			OBB-A1566
	Abbe N.A. 1,25 (aperture diaphragm)		✓	✓	✓	OBB-A1487
Colour filters for transmitted illumination	Blue		✓	✓	✓	OBB-A1466
	Green		○	○	○	OBB-A1467
	Yellow		○	○	○	OBB-A1468
	Grey		○	○	○	OBB-A1184

✓ = included with the delivery

○ = Option

Further accessories and spare parts
see *internet*