



Mounted phase contrast condenser



Simple PH condenser with 40× PH slide

Lab Line

High-quality phase contrast microscope – specially pre-configured with a series of options for flexible expansion

Features

- We have developed this series specially for general applications with phase contrast method. In addition, the stable, modular construction system of the OBL series offers many more options
- Depending on the application, there is a choice of models with strong, infinitely dimmable 3W LED or 20W halogen illumination (Philips)
- A special fixed, pre-centred phase contrast condenser as well as field diaphragm give you a simplified Koehler illumination and thereby a powerful phase-contrast display of your sample
- The large mechanical stage and its specimen holder holds up to two samples at the same time and is quick and easy to focus using a coaxial coarse and fine focusing knob on both sides

- A large selection of eyepieces, objectives and colour filters, a simple polarising unit as well as further phase contrast units 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 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

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

Applications/Samples

- Specially for extremely translucent, thin, low-contrast, challenging samples (e.g. living mammal cells, bacteria, tissue) with phase contrast

Technical data

- Infinity optical system
- Quadplex nosepiece
- Siedentopf 30° inclined/360° rotatable
- Diopter adjustment: One-sided
- Overall dimensions W×D×H 395×200×380 mm
- Net weight approx. 6,7 kg

STANDARD

OBL 155

OBL 146/156

OPTION

Model	Tube	Eyepiece	Objective quality	Objectives	Illumination
KERN					
OBL 146	Binocular	HWF 10×/ø 20 mm	Infinity E-Plan/Plan	4×/PH10×/PH40×/100×	3 W LED (transmitted)
OBL 156	Trinocular	HWF 10×/ø 20 mm	Infinity E-Plan/Plan		3 W LED (transmitted)

Model outfit		Model KERN		Order number
		OBL 146	OBL 156	
Eyepieces (23,2 mm)	HWF 10×/ø 20 mm	✓✓	✓✓	OBB-A1404
	WF 16×/ø 13 mm	○ ○	○ ○	OBB-A1354
	HWF 10×/ø 20 mm (with Pointer)	○	○	OBB-A1448
Infinity E-Plan objectives	4×/0,11 W.D. 12,1 mm	✓	✓	OBB-A1161
	10×/0,25 W.D. 2,1 mm	○	○	OBB-A1159
	40×/0,65 (spring-loaded) W.D. 0,58 mm	○	○	OBB-A1160
	100×/1,25 (oil) (spring-loaded) W.D. 0,19 mm	✓	✓	OBB-A1158
	Plan 20×/0,40 (spring-loaded) W.D. 2,41 mm	○	○	OBB-A1250
	Plan 60×/0,80 (spring-loaded) W.D. 0,33 mm	○	○	OBB-A1270
	Plan 100×/1,15 (water) (spring-loaded) W.D. 0,18 mm	○	○	OBB-A1437
Binocular tube	<ul style="list-style-type: none"> <li>• Butterfly 30° inclined/360° rotatable</li> <li>• Interpupillary distance 50 – 75 mm (for infinity system)</li> <li>• Diopter adjustment: One-sided</li> </ul>	✓	○	OBB-A1578
Trinocular tube	<ul style="list-style-type: none"> <li>• Butterfly 30° inclined/360° rotatable</li> <li>• Interpupillary distance 50 – 75 mm</li> <li>• Light distribution 20:80 (for infinity system)</li> <li>• Diopter adjustment: One-sided</li> </ul>	○	✓	OBB-A1582
Mechanical stage	<ul style="list-style-type: none"> <li>• Stage size W×D 145×130 mm</li> <li>• Travel 76×52 mm</li> <li>• Coaxial coarse and fine focusing knobs, scale: 2 µm</li> <li>• Two slide holder</li> </ul>	✓	✓	
PH condenser	Abbe N.A. 1,25 precentered, for bright field and phase contrast	✓	✓	OBB-A1398
Phase contrast units	Infinity PH-Plan objective 10×	✓	✓	OBB-A1390
	Infinity PH-Plan objective 20×	○	○	OBB-A1391
	Infinity PH-Plan objective 40×	✓	✓	OBB-A1392
	Infinity PH-Plan objective 100×	○	○	OBB-A1393
	PH slide 10×	✓	✓	OBB-A1399
	PH slide 20×	○	○	OBB-A1400
	PH slide 40×	✓	✓	OBB-A1401
	PH slide 100×	○	○	OBB-A1402
	Centering eyepiece	✓	✓	
Darkfield condenser	N.A. 0,85 – 0,91 (dry, paraboloid)	○	○	OBB-A1422
Illumination	3 W LED illumination system (transmitted) (non-rechargeable)	✓	✓	
Colour filters for transmitted illumination	Blue (built-in)	✓	✓	
	Green	✓	✓	OBB-A1188
	Yellow	○	○	OBB-A1165
	Grey	○	○	OBB-A1183
C-Mount	0,5× (focus adjustable)		○	OBB-A1515
	1×		○	OBB-A1514

✓ = Included with delivery

○ = Option