



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



OPTION



| Model | Standard configuration | | | | | Price excl. of VAT ex works € |
|----------------|------------------------|-----------------|--------------------------|-------------------------|----------------------------|--|
| | Tube | Eyepiece | Objective quality | Objectives | Illumination | |
| KERN | | | | | | |
| OBL 146 | Binocular | HWF 10×/ø 20 mm | Infinity E-Plan/ Plan | | 3 W LED (transmitted) | 1660,- |
| OBL 155 | Trinocular | HWF 10×/ø 20 mm | Infinity E-Plan/ Plan | 4×/PH10×/ PH40×/100× | 20 W Halogen (transmitted) | 1490,- |
| OBL 156 | Trinocular | HWF 10×/ø 20 mm | Infinity E-Plan/ Plan | | 3 W LED (transmitted) | 1780,- |

| Model outfit | | Model KERN | | | Order number | Price/piece excl. of VAT ex works € |
|---|--|------------|------------|------------|--------------|--|
| | | OBL 155 | OBL 146 | OBL 156 | | |
| Eyepieces (23,2 mm) | HWF 10×/ø 20 mm | ✓✓ | ✓✓ | ✓✓ | OBB-A1404 | 105,– |
| | WF 16×/ø 13 mm | ○ ○ | ○ ○ | ○ ○ | OBB-A1354 | 50,– |
| Infinity E-Plan objectives | HWF 10×/ø 20 mm (with Pointer) | ○ | ○ | ○ | OBB-A1448 | 90,– |
| | 4×/0,11 W.D. 12,1 mm | ✓ | ✓ | ✓ | OBB-A1161 | 100,– |
| | 10×/0,25 W.D. 2,1 mm | ○ | ○ | ○ | OBB-A1159 | 165,– |
| | 40×/0,65 (spring-loaded) W.D. 0,58 mm | ○ | ○ | ○ | OBB-A1160 | 290,– |
| | 100×/1,25 (oil) (spring-loaded) W.D. 0,19 mm | ✓ | ✓ | ✓ | OBB-A1158 | 365,– |
| | Plan 20×/0,40 (spring-loaded) W.D. 2,41 mm | ○ | ○ | ○ | OBB-A1250 | 290,– |
| | Plan 60×/0,80 (spring-loaded) W.D. 0,33 mm | ○ | ○ | ○ | OBB-A1270 | 390,– |
| | Plan 100×/1,15 (water) (spring-loaded) W.D. 0,18 mm | ○ | ○ | ○ | OBB-A1437 | 490,– |
| Binocular tube | <ul style="list-style-type: none"> • Butterfly 30° inclined/360° rotatable • Interpupillary distance 50 – 75 mm (for infinity system) • Diopter adjustment: One-sided | ○ | ✓ | ○ | OBB-A1578 | |
| Trinocular tube | <ul style="list-style-type: none"> • Butterfly 30° inclined/360° rotatable • Interpupillary distance 50 – 75 mm • Light distribution 20:80 (for infinity system) • Diopter adjustment: One-sided | ✓ | ○ | ✓ | OBB-A1582 | |
| Mechanical stage | <ul style="list-style-type: none"> • Stage size W×D 145×130 mm • Travel 76×52 mm • Coaxial coarse and fine focusing knobs, scale: 2 µm • Two slide holder | ✓ | ✓ | ✓ | | |
| PH condenser | Abbe N.A. 1,25 precentered, for bright field and phase contrast | ✓ | ✓ | ✓ | OBB-A1398 | 165,– |
| Phase contrast units | Infinity PH-Plan objective 10× | ✓ | ✓ | ✓ | OBB-A1390 | 185,– |
| | Infinity PH-Plan objective 20× | ○ | ○ | ○ | OBB-A1391 | 220,– |
| | Infinity PH-Plan objective 40× | ✓ | ✓ | ✓ | OBB-A1392 | 285,– |
| | Infinity PH-Plan objective 100× | ○ | ○ | ○ | OBB-A1393 | 375,– |
| | PH slide 10× | ✓ | ✓ | ✓ | OBB-A1399 | 85,– |
| | PH slide 20× | ○ | ○ | ○ | OBB-A1400 | 85,– |
| | PH slide 40× | ✓ | ✓ | ✓ | OBB-A1401 | 85,– |
| | PH slide 100× | ○ | ○ | ○ | OBB-A1402 | 85,– |
| | Centering eyepiece | ✓ | ✓ | ✓ | | |
| Darkfield condenser | N.A. 0,85 – 0,91 (dry, paraboloid) | ○ | ○ | ○ | OBB-A1422 | 250,– |
| Illumination | 20 W Halogen spare bulb (transmitted) | ✓ | | | OBB-A1643 | 60,– |
| | 3 W LED illumination system (transmitted) (non-rechargeable) | | ✓ | ✓ | | |
| Colour filters for transmitted illumination | Blue (built-in) | ✓ | ✓ | ✓ | | |
| | Green | ✓ | ✓ | ✓ | OBB-A1188 | 25,– |
| | Yellow | ○ | ○ | ○ | OBB-A1165 | 25,– |
| | Grey | ○ | ○ | ○ | OBB-A1183 | 25,– |
| C-Mount | 0,5× (focus adjustable) | ○ | | ○ | OBB-A1515 | 200,– |
| | 1× | ○ | | ○ | OBB-A1514 | 130,– |

For further optional accessories, please see the list of items for the OBL-12 and OBL-13 series from page 17

✓ = Included with delivery

○ = Option