



OBN-13



OBN-15



OBN-15: Mounted phase contrast condenser



Quintuple PH universal rotary condenser with 10×/20×/40×/100× Infinity PH-Plan objectives (complete set, for OBN-15 included)

Professional Line

Professionalism and versatility united in one microscope – with Koehler illumination for demanding applications

Features

- The OBN series stands out because of its unbeatable and consistently high quality and its ergonomic design. The range of modular components means that the OBN series can be individually customised for the professional user
- Depending on the application, there is a choice of models with strong, continuously dimmable 3 W LED or 20 W halogen transmitted illumination (Philips)
- In addition the microscope is available as a pre-configured phase contrast microscope, which, through the combination of a professional quintuple condenser wheel, phase contrast condenser and Infinity Plan phase contrast objectives makes it a high-quality, fully-equipped microscope for all applications related to contrast procedures
- This series has a professional Koehler illumination unit with an adjustable field diaphragm as well as a height-adjustable 1,25 Abbe condenser which can be centred and which has an adjustable aperture diaphragm

- The extremely large mechanical stage with ergonomic, coaxial coarse and fine focusing knob on both sides enables you to adjust and focus your sample rapidly and accurately
- A wide variety of modular systems, such as, for example, a swing-out condenser, various eyepieces, objectives, colour filters, phase contrast units, a darkfield condenser, a simple polarising unit, Butterfly tube, through to complete fluorescence units are available to you as accessories
- The centring eyepiece for adjusting the phase contrast (OBN-15), a protective dust cover, eye cups as well as multi-lingual user instructions are included with the delivery
- A C-mount adapter is required to connect a camera. 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

- Translucent, thin, low-contrast, challenging samples (e.g. living mammal cells, bacteria, tissue)

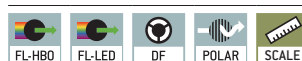
Technical data

- Infinity optical system
- Quintuple nosepiece
- Siedentopf 30° inclined/360° rotatable
- Diopter adjustment: Both-sided
- Overall dimensions W×D×H 390×200×400 mm
- Net weight approx. 9 kg

STANDARD



OPTION



Model OBN 132/158 OBN 135/159 Standard configuration

| KERN | Tube | Eyepiece | Objective quality | Objectives | Illumination |
|---------|------------|-----------------|-------------------|-----------------------------|----------------------------|
| OBN 132 | Trinocular | HWF 10×/∅ 20 mm | Infinity Plan | 4×/10×/20×/40×/100× | 20 W Halogen (transmitted) |
| OBN 135 | Trinocular | HWF 10×/∅ 20 mm | Infinity Plan | 4×/10×/20×/40×/100× | 3 W LED (transmitted) |
| OBN 158 | Trinocular | HWF 10×/∅ 20 mm | Infinity Plan | 4×/PH10×/PH20×/PH40×/PH100× | 20 W Halogen (transmitted) |
| OBN 159 | Trinocular | HWF 10×/∅ 20 mm | Infinity Plan | 4×/PH10×/PH20×/PH40×/PH100× | 3 W LED (transmitted) |

| Model outfit | | Model KERN | | | | Order number |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------|---------|---------|--------------|
| | | OBN 132 | OBN 135 | OBN 158 | OBN 159 | |
| Eyepieces (23,2 mm) | HWF 10×/∅ 20 mm | ✓✓ | ✓✓ | ✓✓ | ✓✓ | OBB-A1404 |
| | WF 16×/∅ 13 mm | ○○ | ○○ | ○○ | ○○ | OBB-A1354 |
| Infinity Plan achromatic objectives | 4×/0,11 W.D. 12,1 mm | ✓ | ✓ | ✓ | ✓ | OBB-A1263 |
| | 10×/0,25 W.D. 4,64 mm | ✓ | ✓ | ○ | ○ | OBB-A1243 |
| | 20×/0,40 (spring-loaded) W.D. 2,41 mm | ✓ | ✓ | ○ | ○ | OBB-A1250 |
| | 40×/0,66 (spring-loaded) W.D. 0,65 mm | ✓ | ✓ | ○ | ○ | OBB-A1257 |
| | 100×/1,25 (oil) (spring-loaded) W.D. 0,19 mm | ✓ | ✓ | ○ | ○ | OBB-A1240 |
| | 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 |
| Trinocular tube | <ul style="list-style-type: none"> • Butterfly 30° inclined/360° rotatable • Interpupillary distance 50 – 75 mm • Light distribution 100:0 • Diopter adjustment: Both-sided | ✓ | ✓ | ✓ | ✓ | |
| Mechanical stage | <ul style="list-style-type: none"> • Stage size W×D 175×145 mm • Travel 78×55 mm • Coaxial coarse and fine focusing knobs • Two slide holder | ✓ | ✓ | ✓ | ✓ | |
| Condenser | Abbe N.A. 1,25 center-adjustable (aperture diaphragm) | ✓ | ✓ | ○ | ○ | OBB-A1102 |
| | Swing-out condenser N.A. 0,9/0,13 center-adjustable (aperture diaphragm) | ○ | ○ | ○ | ○ | OBB-A1104 |
| Darkfield condenser | N.A. 0,85 – 0,91 (dry, paraboloid) | ○ | ○ | ○ | ○ | OBB-A1421 |
| | N.A. 1,3 (oil, cardioid) | ○ | ○ | ○ | ○ | OBB-A1538 |
| Koehler illumination | 20 W Halogen spare bulb (transmitted) | ✓ | | ✓ | | OBB-A1643 |
| | 3 W LED illumination system (transmitted) (non-rechargeable) | | ✓ | | ✓ | |
| Polarising unit | Analyser/Polariser | ○ | ○ | ○ | ○ | OBB-A1283 |
| Phase contrast units | Quintuple hole turret with 10×/20×/40×/100× Infinity-PH-Plan objectives (complete set) | ○ | ○ | ✓ | ✓ | OBB-A1237 |
| | Single unit with ∞ PH-Plan objective 10× | ○ | ○ | | | OBB-A1214 |
| | Single unit with ∞ PH-Plan objective 20× | ○ | ○ | | | OBB-A1216 |
| | Single unit with ∞ PH-Plan objective 40× | ○ | ○ | | | OBB-A1218 |
| | Single unit with ∞ PH-Plan objective 100× | ○ | ○ | | | OBB-A1212 |
| | Centering eyepiece | ○ | ○ | ✓ | ✓ | |
| | If required, there are several magnification levels, please contact our OPTICS-Team | | | | | |
| C-Mount | 1× | ○ | ○ | ○ | ○ | OBB-A1140 |
| | 0,57× (focus adjustable) | ○ | ○ | ○ | ○ | OBB-A1136 |
| Fluorescence unit | 100 W HBO Epi Fluorescence unit 6-filter disc (UV/V/B/G) including centering objective | ○ | ○ | ○ | ○ | OBB-A1155 |
| | 100 W HBO Epi Fluorescence unit, two-hole slide (B/G) including centering objective | ○ | ○ | ○ | ○ | OBB-A1153 |
| | 5 W LED Epi Fluorescence unit (B/G) including centering objective | ○ | ○ | ○ | ○ | OBB-A1156 |
| Colour filters for transmitted illumination | Blue | ✓ | | ✓ | ✓ | |
| | Green | ○ | ○ | ✓ | ✓ | OBB-A1188 |
| | Yellow | ○ | ○ | ○ | ○ | OBB-A1165 |
| | Grey | ○ | ○ | ○ | ○ | OBB-A1183 |

✓ = Included with delivery

○ = Option