



Note

Semi apochromatic objectives available as accessories (see model outfit list page 27)



Illumination unit



Sextuple filter wheel OBN 148

Professional Line

The fluorescence microscope for the professional user

Features

- The fluorescence microscope in the OBN-14 series is based on the usual high quality and versatility of the OBN series. The outstanding, stable design in combination with high-quality optics set the standard in fluorescence microscopy in this class
- The powerful, dimmable 20W halogen illumination unit (Philips) and a 100W Epi fluorescence incident illumination unit on the OBN 147/OBN 148 models ensure perfect illumination and stimulation of your fluorescence samples
- As an alternative, with the OBN 141 model we can offer you a fluorescence microscope with a 3W LED transmitted illumination unit and 3W LED Epi fluorescence incident illumination unit
- 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
- As standard, the filter wheel which has up to 6 fittings is fitted with a B/G fluorescence filter (OBN 141/OBN 147) or B/G/UV/V fluorescence filter (OBN 148)
- A large selection of eyepieces, objectives, colour filters, darkfield condensers as well as a Butterfly tube, polarising and phase contrast units can easily be integrated thanks to the modular construction system
- The centring objective for adjusting the fluorescence, 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. 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 translucent, thin, low-contrast, challenging samples (e.g. immunofluorescence, FISH, DAPI staining, etc.)

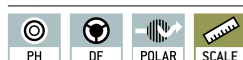
Technical data

- Infinity optical system
- Quintuple nosepiece
- Siedentopf 30° inclined/360° rotatable
- Diopter adjustment: Both-sided
- Overall dimensions W×D×H
530×220×490 mm
- Net weight approx. 16 kg

STANDARD



OPTION



Model

Standard configuration

| | Tube | Eyepiece | Objective quality | Objectives | Illumination | Price excl. of VAT ex works € |
|----------------|------------|-----------------|-------------------|-------------|---------------------------------------------|----------------------------------------|
| KERN | | | | | | |
| OBN 141 | Trinocular | HWF 10×/ø 20 mm | Infinity Plan | 4×/10×/20×/ | LED + 3 W LED Epi Fluorescence (B/G) | 5190,- |
| OBN 147 | Trinocular | WF 10×/ø 20 mm | Infinity Plan | 40×/100× | Halogen + 100 W Epi Fluorescence (B/G) | 5170,- |
| OBN 148 | Trinocular | HWF 10×/ø 20 mm | Infinity Plan | | Halogen + 100 W Epi Fluorescence (B/G/UV/V) | 6550,- |

| Model outfit | | Model KERN | | | Order number | Price/piece excl. of VAT ex works € |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------|---------|--------------|----------------------------------------------|
| | | OBN 141 | OBN 147 | OBN 148 | | |
| Eyepieces (23,2 mm) | HWF 10×/ø 20 mm | ✓✓ | | ✓✓ | OBB-A1404 | 105,– |
| | WF 10×/ø 20 mm | | ✓✓ | | OBB-A1351 | 95,– |
| | WF 16×/ø 13 mm | ○ ○ | ○ ○ | ○ ○ | OBB-A1354 | 50,– |
| | WF 10×/ø 20 mm (reticle 0,1 mm) (adjustable) | ○ | ○ | ○ | OBB-A1352 | 155,– |
| Infinity Plan achromatic objectives | 4×/0,10 W.D. 12,1 mm | ✓ | ✓ | ✓ | OBB-A1263 | 120,– |
| | 10×/0,25 W.D. 4,64 mm | ✓ | ✓ | ✓ | OBB-A1243 | 215,– |
| | 20×/0,40 (spring-loaded) W.D. 2,41 mm | ✓ | ✓ | ✓ | OBB-A1250 | 290,– |
| | 40×/0,66 (spring-loaded) W.D. 0,65 mm | ✓ | ✓ | ✓ | OBB-A1257 | 315,– |
| | 100×/1,25 (oil) (spring-loaded) W.D. 0,19 mm | ✓ | ✓ | ✓ | OBB-A1240 | 340,– |
| | Plan 60×/0,80 (spring-loaded) W.D. 0,33 mm | ○ | ○ | ○ | OBB-A1270 | 390,– |
| Infinity Plan Semi Apochromatic objectives | 10×/0,3 W.D. 7,68 mm | ○ | ○ | ○ | OBB-A1634 | 395,– |
| | 20×/0,5 W.D. 1,96 mm | ○ | ○ | ○ | OBB-A1635 | 690,– |
| | 40×/0,75 (spring-loaded) W.D. 0,78 mm | ○ | ○ | ○ | OBB-A1636 | 1050,– |
| | 100×/1,3 (oil) (spring-loaded) W.D. 0,15 mm | ○ | ○ | ○ | OBB-A1637 | 1370,– |
| 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 | 95,– |
| | Swing-out condenser N.A. 0,9/0,13 center-adjustable (aperture diaphragm) | ○ | ○ | ○ | OBB-A1104 | 240,– |
| Darkfield condenser | N.A. 0,85 – 0,91 (dry, paraboloid) | ○ | ○ | ○ | OBB-A1421 | 290,– |
| | N.A. 1,3 (oil, cardioid) | ○ | ○ | ○ | OBB-A1538 | 660,– |
| Koehler illumination | 20 W Halogen spare bulb (transmitted) | | ✓ | ✓ | OBB-A1643 | 60,– |
| | 3 W LED illumination system (transmitted) (non-rechargeable) | ✓ | | | | |
| Polarising unit | Analyser/Polariser | ○ | ○ | ○ | OBB-A1283 | 290,– |
| Phase contrast units | Quintuple hole turret with 10×/20×/40×/100× Infinity-PH-Plan objectives (complete set) | ○ | ○ | ○ | OBB-A1237 | 1790,– |
| | Single unit with ∞ PH-Plan objective 10× | ○ | ○ | ○ | OBB-A1214 | 340,– |
| | Single unit with ∞ PH-Plan objective 20× | ○ | ○ | ○ | OBB-A1216 | 390,– |
| | Single unit with ∞ PH-Plan objective 40× | ○ | ○ | ○ | OBB-A1218 | 470,– |
| | Single unit with ∞ PH-Plan objective 100× | ○ | ○ | ○ | OBB-A1212 | 570,– |
| | If required, there are several magnification levels, please contact our OPTICS-Team | | | | | |
| | | | | | | |
| C-Mount | 1× | ○ | ○ | ○ | OBB-A1140 | 110,– |
| | 0,57× (focus adjustable) | ○ | ○ | ○ | OBB-A1136 | 175,– |
| Fluorescence unit | 100 W HBO Epi Fluorescence unit 6-filter disc (UV/V/B/G) including centering objective | | | ✓ | | |
| | 100 W HBO Epi Fluorescence unit, 6-filter-disc (B/G) including centering objective | | ✓ | | | |
| | 3 W LED Epi Fluorescence unit (B/G) including centering objective | ✓ | | | | |
| Colour filters for transmitted illumination | Blue | ✓ | ✓ | ✓ | | |
| | Green | ○ | ○ | ○ | OBB-A1188 | 25,– |
| | Yellow | ○ | ○ | ○ | OBB-A1165 | 25,– |
| | Grey | ○ | ○ | ○ | OBB-A1183 | 25,– |

✓ = Included with delivery

○ = Option