



Note: Semi apochromatic objectives available as accessories (see model outfit list)



Illumination unit



Sextuple filter wheel

OBN 142

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 20 W halogen illumination unit (Philips) and a 100 W 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 3 W-LED transmitted illumination unit and 5 W-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 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, Veterinary practices, water analysis, breweries

Applications/Samples

- Specially for translucent, thin, low-contrast, challenging samples (e.g. Immunofluorescence, FISH, DAPI staining, etc.)

Technical data

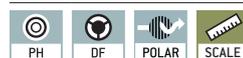
- Infinity optical system
- Quintuple nosepiece
- Siedentopf 30° inclined/360° rotatable
- Diopter adjustment, both-sided
- Overall dimensions W×D×H 530×220×490 mm
- Net weight approx. 13 kg

STANDARD



OBN 147/148 OBN 141/142 OBN 147/148 OBN 141/142

OPTION



Model

Standard configuration

	Tube	Eyepiece	Objective quality	Objectives	Illumination
KERN					
OBN 141	Trinocular	HWF 10 x/Ø 20 mm	Infinity Plan		LED + 5W LED-Epi Fluorescence (B/G)
OBN 142	Trinocular	HWF 10 x/Ø 20 mm	Infinity Plan	4x / 10x / 20x /	LED + 5W LED-Epi Fluorescence (B/G/UV/V)
OBN 147	Trinocular	HWF 10 x/Ø 20 mm	Infinity Plan	40x / 100x	Halogen + 100W Epi Fluorescence (B/G)
OBN 148	Trinocular	HWF 10 x/Ø 20 mm	Infinity Plan		Halogen + 100W Epi Fluorescence (B/G/UV/V)

NEW New model

Fluorescence Microscope KERN OBN-14

Model outfit	Model KERN				Order number	
	OBN 141	OBN 142	OBN 147	OBN 148		
Eyepieces (23,2 mm)	HWF 10 × /Ø 20 mm	✓✓	✓✓	✓✓	✓✓	OBB-A1404
	WF 10 × /Ø 20 mm	○	○	○	○	OBB-A1351
	WF 16 × /Ø 13 mm	○	○	○	○	OBB-A1354
	WF 10 × /Ø 20 mm (reticule 0,1 mm) (adjustable)	○	○	○	○	OBB-A1352
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 × /0,4 (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 × /0,8 (spring-loaded) W.D. 0,33 mm	○	○	○	○	OBB-A1270
Infinity Plan Semi Apochromatic objectives	10 × /0,3 W.D. 7,68 mm	○	○	○	○	OBB-A1634
	20 × /0,5 W.D. 1,96 mm	○	○	○	○	OBB-A1635
	40 × /0,75 (spring-loaded) W.D. 0,78 mm	○	○	○	○	OBB-A1636
	100 × /1,3 (oil) (spring-loaded) W.D. 0,15 mm	○	○	○	○	OBB-A1637
Trinocular tube	· Butterfly 30° inclined/360° rotatable · Interpupillary distance 50 – 75 mm · Light distribution 100:0 · Diopter adjustment: Both-sided	✓	✓	✓	✓	
Mechanical stage	· 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
	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				✓	
	100 W HBO Epi Fluorescence unit, 6-filter-disc (B/G) including centering objective			✓		
	5 W LED Epi Fluorescence unit 6-filter-disc (UV/V/B/G) including centering objective		✓			
	5 W LED Epi Fluorescence unit 6-filter-disc (B/G) including centering objective	✓				
Colour filters for transmitted illumination	Blue	○	○	✓	✓	
	Green	○	○	○	○	OBB-A1188
	Yellow	○	○	○	○	OBB-A1165
	Grey	○	○	○	○	OBB-A1183

✓ = Included with delivery

○ = Option