



Note

Semi apochromatic objectives available as accessories (see model outfit list Page 25)



OBN 141/OBN 147



Illumination unit



Sextuple filter wheel OBN 148

PROFESSIONAL LINE

The fluorescence microscope for the professional user



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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
- With the OBN 147/OBN 148 halogen variant you have a filter wheel which has up to 6 fittings. As standard this is fitted with a B/G or B/G/UV/V fluorescence filter. The OBN 141 LED variant is fitted with a B/G fluorescence filter with a changeover slider as standard. The changeover slider and the filter wheel mean that you can change the stimulation filter quickly
- 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.)

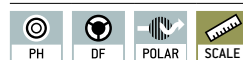
Technical data

- Infinity optical system
- Quintuple nosepiece
- Siedentopf 30° inclined/360° rotatable
- Diopter adjustment: Both-sided
- Overall dimensions WxDxH 530x220x490 mm
- Net weight approx. 23 kg

STANDARD



OPTION



Model	Standard configuration					Price excl. of VAT ex works €
	Tube	Eyepiece	Objective quality	Objectives	Illumination	
KERN						
OBN 141	Trinocular	HWF 10x/φ 20 mm	Infinity Plan	4x/10x/20x/ 40x/100x	LED + 3 W LED Epi Fluorescence (B/G)	4470,-
OBN 147	Trinocular	WF 10x/φ 20 mm	Infinity Plan		Halogen + 100 W Epi Fluorescence (B/G)	4390,-
OBN 148	Trinocular	HWF 10x/φ 20 mm	Infinity Plan		Halogen + 100 W Epi Fluorescence (B/G/UV/V)	5630,-

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×/∅ 20 mm	✓✓		✓✓	OBB-A1404	95,-
	WF 10×/∅ 20 mm		✓✓		OBB-A1351	85,-
	WF 16×/∅ 13 mm	○○	○○	○○	OBB-A1354	45,-
	WF 10×/∅ 20 mm (reticule 0,1 mm) (adjustable)	○	○	○	OBB-A1352	140,-
Infinity Plan achromatic objectives	4×/0,10 W.D. 12,1 mm	✓	✓	✓	OBB-A1263	110,-
	10×/0,25 W.D. 4,64 mm	✓	✓	✓	OBB-A1243	195,-
	20×/0,40 (spring-loaded) W.D. 2,41 mm	✓	✓	✓	OBB-A1250	265,-
	40×/0,66 (spring-loaded) W.D. 0,65 mm	✓	✓	✓	OBB-A1257	290,-
	100×/1,25 (oil) (spring-loaded) W.D. 0,19 mm	✓	✓	✓	OBB-A1240	315,-
	2,5×/0,07 W.D. 8,47 mm	○	○	○	OBB-A1247	265,-
	Plan 60×/0,80 (spring-loaded) W.D. 0,33 mm	○	○	○	OBB-A1270	360,-
Infinity Plan Semi Achromatic objectives	10×/0,3 W.D. 7,68 mm	○	○	○	OBB-A1634	380,-
	20×/0,5 W.D. 1,96 mm	○	○	○	OBB-A1635	650,-
	40×/0,75 (spring-loaded) W.D. 0,78 mm	○	○	○	OBB-A1636	890,-
	100×/1,3 (oil) (spring-loaded) W.D. 0,15 mm	○	○	○	OBB-A1637	1150,-
Trinocular tube	<ul style="list-style-type: none"> • Siedentopf 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	85,-
	Swing-out condenser N.A. 0,9/0,13 center-adjustable (aperture diaphragm)	○	○	○	OBB-A1104	220,-
Darkfield condenser	N.A. 0,85 – 0,91 (dry, paraboloid)	○	○	○	OBB-A1421	265,-
	N.A. 1,3 (oil, cardioid)	○	○	○	OBB-A1538	580,-
Koehler illumination	20 W Halogen spare bulb (transmitted)		✓	✓	OBB-A1370	45,-
	3 W LED illumination system (transmitted) (non-rechargeable)	✓				
Polarising unit	Analyser/Polariser	○	○	○	OBB-A1283	265,-
Phase contrast units	Quintuple hole turret with 10×/20×/40×/100× Infinity-PH-Plan objectives (complete set)	○	○	○	OBB-A1237	1570,-
	Single unit with ∞ PH-Plan objective 10×	○	○	○	OBB-A1214	310,-
	Single unit with ∞ PH-Plan objective 20×	○	○	○	OBB-A1216	350,-
	Single unit with ∞ PH-Plan objective 40×	○	○	○	OBB-A1218	420,-
	Single unit with ∞ PH-Plan objective 100×	○	○	○	OBB-A1212	510,-
	If required, there are several magnification levels, please contact our OPTICS-Team					
C-Mount	1×	○	○	○	OBB-A1140	100,-
	0,57× (focus adjustable)	○	○	○	OBB-A1136	160,-
Fluorescence unit	100 W HBO Epi Fluorescence unit 6-filter disc (UV/V/B/G) including centering objective			✓		
	100 W HBO Epi Fluorescence unit, two-hole slide (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	19,-
	Yellow	○	○	○	OBB-A1165	19,-
	Grey	○	○	○	OBB-A1183	19,-

✓ = Included with delivery ○ = Option