



OBN 142



Illumination unit



Sextuple filter wheel

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
- OBN 147/148: The powerful, dimmable 20W halogen illumination unit (Philips) and a 100W Epi fluorescence incident illumination unit 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 510×470×515 mm
- Net weight approx. 13 kg

STANDARD



OPTION



Model

Tube

Eyepiece

Objective quality

Objectives

Illumination

KERN

OBN 141	Trinocular	HWF 10x/Ø 20 mm	Infinity Plan	4x / 10x / 20x / 40x / 100x	LED + 5 W LED Epi Fluorescence (B/G)
OBN 142	Trinocular	HWF 10x/Ø 20 mm	Infinity Plan	4x / 10x / 20x / 40x / 100x	LED + 5 W LED Epi Fluorescence (UV/V/B/G)
OBN 147*	Trinocular	HWF 10x/Ø 20 mm	Infinity Plan	4x / 10x / 20x / 40x / 100x	Halogen + 100 W Epi Fluorescence (B/G)
OBN 148	Trinocular	HWF 10x/Ø 20 mm	Infinity Plan	4x / 10x / 20x / 40x / 100x	Halogen + 100 W Epi Fluorescence (UV/V/B/G)

! * ONLY WHILE STOCKS LAST

Fluorescence Microscope KERN OBN-14

Model outfit		Model KERN				Order number
		OBN 141	OBN 142	OBN 147	OBN 148	
Eyepieces (23,2 mm)	HWF 10x/Ø 20 mm	✓✓	✓✓	✓✓	✓✓	OBB-A1404
	WF 10x/Ø 20 mm	○	○	○	○	OBB-A1351
	WF 16x/Ø 13 mm	○	○	○	○	OBB-A1354
	WF 10x/Ø 20 mm (reticule 0,1 mm) (adjustable)	○	○	○	○	OBB-A1352
Infinity Plan achromatic objectives	4x/0,11 W.D. 12,1 mm	✓	✓	✓	✓	OBB-A1263
	10x/0,25 W.D. 4,64 mm	✓	✓	✓	✓	OBB-A1243
	20x/0,45 (spring-loaded) W.D. 2,41 mm	✓	✓	✓	✓	OBB-A1250
	40x/0,65 (spring-loaded) W.D. 0,65 mm	✓	✓	✓	✓	OBB-A1257
	100x/1,25 (oil) (spring-loaded) W.D. 0,19 mm	✓	✓	✓	✓	OBB-A1240
	Plan 60x/0,8 (spring-loaded) W.D. 0,33 mm	○	○	○	○	OBB-A1270
Infinity Plan Semi Apochromatic objectives	10x/0,3 W.D. 7,68 mm	○	○	○	○	OBB-A1634
	20x/0,5 W.D. 1,96 mm	○	○	○	○	OBB-A1635
	40x/0,75 (spring-loaded) W.D. 0,78 mm	○	○	○	○	OBB-A1636
	100x/1,3 (oil) (spring-loaded) W.D. 0,15 mm	○	○	○	○	OBB-A1637
Trinocular tube	· Butterfly 30° inclined/360° rotatable · Interpupillary distance 50 mm – 75 mm · Light distribution 0:100 · Diopter adjustment both-sided	✓	✓	✓	✓	OBB-A1382
Mechanical stage	· Stage size B×T 175×145 mm · Travel 78×55 mm · Coaxial coarse and fine focusing knobs · Holder for two slides	✓	✓	✓	✓	OBB-A1330
Condenser	Abbe N.A. 1,25 can be centred (with aperture diaphragm)	✓	✓	✓	✓	OBB-A1102
	“Swing-out” condenser N.A. 0,9/0,13 can be centred (with aperture diaphragm)	○	○	○	○	OBB-A1104
Darkfield condenser	N.A. 0,85-0,91 (dry, paraboloid)	○	○	○	○	OBB-A1421
	N.A. 1,3 (oil, cardiod)	○	○	○	○	OBB-A1538
Polarising unit	Analyser/Polariser	○	○	○	○	OBB-A1283
Phase contrast units	Quintuple condenser wheel with 10x/20x/40x/100x Infinity PH Plan objectives (complete set)	○	○	○	○	OBB-A1237
	Single unit with ∞ PH-Plan-objective 10x	○	○	○	○	OBB-A1214
	Single unit with ∞ PH-Plan-objective 20x	○	○	○	○	OBB-A1216
	Single unit with ∞ PH-Plan-objective 40x	○	○	○	○	OBB-A1218
	Single unit with ∞ PH-Plan-objective 100x	○	○	○	○	OBB-A1212
Fluorescence unit	100W-HBO-Epi-Flourescence unit, 6-filter-disc (UV/V/B/G) including centering-objective				✓	OBB-A1155
	100 W HBO Epi fluorescent unit, 6-filter-disc (B/G) including centring objective lens			✓		OBB-A1153
	5W LED Epi Flourecence unit, 6-filter-disc (UV/V/B/G) including centering objective		✓			OBB-A1654
	5W LED Epi Flourecence unit, 6-filter-disc (B/G) including centering objective	✓				OBB-A1156
Colour filters for transmitted illumination	Blue	○	○	✓	✓	OBB-A1170
	Green	○	○	○	○	OBB-A1188
	Yellow	○	○	○	○	OBB-A1165
	Grey	○	○	○	○	OBB-A1183
C-Mount	1x	○	○	○	○	OBB-A1514
	0,5x (focus adjustable)	○	○	○	○	OBB-A1515

✓ = included with the delivery

○ = Option

Further accessories and spare parts
see *internet*