



OBN-13



OBN-15



Mounted phase contrast condenser



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 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 this contrasting method
- 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, a Butterfly Tube, through to complete fluorescence units are available to you as accessories
- KERN OBN 15: This centring eyepiece for adjusting the phase contrast, 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, Inpatient facilities, laboratory medical facilities, health authorities, training centres, universities

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 390×200×395 mm
- Net weight approx. 10 kg

STANDARD



OPTION



Model	Tube	Eyepiece	Objective quality	Objectives	Illumination
OBN 135	Trinocular	HWF 10x/Ø 20 mm	Infinity Plan	4x / 10x / 20x / 40x / 100x	3 W LED (transmitted)
OBN 158	Trinocular	HWF 10x/Ø 20 mm	Infinity Plan	4x / 10x / 20x / 40x / 100x	20 W Halogen (transmitted)
OBN 159	Trinocular	HWF 10x/Ø 20 mm	Infinity Plan	4x / 10x / 20x / 40x / 100x	3 W LED (transmitted)

Model outfit		Model KERN			Order number
		OBN 135	OBN 158	OBN 159	
Eyepieces (23,2 mm)	HWF 10x / Ø 20 mm	✓✓	✓✓	✓✓	OBB-A1404
	WF 16x / Ø 13 mm	○○	○○	○○	OBB-A1354
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 E-Plan objectives	Plan 100x/1,15 (water) (spring-loaded) W.D. 0,18 mm	○	○	○	OBB-A1437
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, cardioid)	○	○	○	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
	Centring eyepiece	○	✓	✓	OBB-A1383
Fluorescence unit	100 W HBO-Epi-Fluorescence 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	○	○	○	OBB-A1153
	5 W LED Epi Fluorescence 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*