





Mounted phase contrast condenser



Simple PH condenser with 40× PH slide

LAB LINE

High-quality phase contrast microscope – specially pre-configured with a series of options for flexible expansion

Features

- We have developed this series specially for general applications with phase contrast method. In addition, the stable, modular construction system of the OBL series offers many more options
- A strong and continously adjustable 20 W halogen illumination unit (Philips) ensures the optimum lighting conditions
- A special fixed, pre-centred phase contrast condenser with aperture diaphragm as well as field diaphragm give you a simplified Koehler illumination and thereby a powerful phase-contrast display of your sample
- The large mechanical stage and its specimen holder holds up to two samples at the same time and is quick and easy to focus using a coaxial coarse and fine focusing knob on both sides

- A large selection of eyepieces, objectives and colour filters, a simple polarising unit as well as further phase contrast units are available to you as accessories
- 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, vets, water analysis and breweries

Applications/Samples

 Specially for extremely translucent, thin, low-contrast, challenging samples (e.g. living mammal cells, bacteria, tissue) with phase contrast

Technical data

- · Infinity optical system
- · Quadplex nosepiece
- Siedentopf 30° inclined/360° rotatable
- · Diopter adjustment: One-sided
- Overall dimensions W×D×H 395×200×380 mm
- Net weight approx. 6,7 kg

STANDARD									
(C	00		7	Ф	0	∞	—	
3	60°	BINO	TRINO	ABBE	HAL	PH	INFINITY	230 V	1 DAY

Model	Standard configuration						
KERN	Tube	Eyepiece	Objective quality	Objectives	Illumination		
OBL 145	Binocular	HWF 10×/Ø 20 mm	Infinity E-Plan/ Plan	4×/PH10×/	6 V/20 W Halogen (transmitted)	•	
OBL 155	Trinocular	HWF 10×/Ø 20 mm	Infinity E-Plan/ Plan	PH40×/100×	6 V/20 W Halogen (transmitted)	•	



Model outfit		Mode	Model KERN		
		OBL 145	OBL 155		
	HWF 10×/ø 20 mm	44	44	OBB-A1404	
E yepieces (23,2 mm)	WF 16×/ø 13 mm	00	00	OBB-A1354	
,	HWF 10×/ø 20 mm (with Pointer)	0	0	OBB-A1448	
	4×/0,10 W.D. 12,1 mm	✓	✓	OBB-A1161	
	10×/0,25 W.D. 2,1 mm	0	0	OBB-A1159	
	40×/0,65 (spring) W.D. 0,58 mm	0	0	OBB-A1160	
nfinity E-Plan objectives	100×/1,25 (oil) (spring) W.D. 0,19 mm	✓	✓	OBB-A1158	
- · · · · · · · · · · · · · · · · · · ·	Plan 20×/0,40 (spring) W.D. 2,41 mm	0	0	OBB-A1250	
	Plan 60×/0,80 (spring) W.D. 0,33 mm	0	0	OBB-A1270	
	Plan 100×/1,15 (water) (spring) W.D. 0,18 mm	0	0	OBB-A1437	
Binocular tube	Siedentopf 30° inclined/360° rotatable Interpupillary distance 50 – 75 mm (for infinity system) Diopter adjustment: One-sided	✓	0	OBB-A1130	
Trinocular tube	 Siedentopf 30° inclined/360° rotatable Interpupillary distance 50 – 75 mm Light distribution 20:80 (for infinity system) Diopter adjustment: One-sided 	0	✓	OBB-A1549	
Mechanical stage	 Stage size W×D 145×130 mm Travel 76×52 mm Coaxial coarse and fine focusing knobs, scale: 2 μm Two slide holder 	*	*		
PH condenser	Abbe N.A. 1,25 precentered, for bright field and phase contrast	✓	✓	OBB-A1398	
	Infinity PH-Plan objective 10×	✓	✓	OBB-A1390	
	Infinity PH-Plan objective 20×	0	0	OBB-A1391	
	Infinity PH-Plan objective 40×	✓	✓	OBB-A1392	
	Infinity PH-Plan objective 100×	0	0	OBB-A1393	
Phase contrast units	PH slide 10×	✓	✓	OBB-A1399	
	PH slide 20×	0	0	OBB-A1400	
	PH slide 40×	✓	✓	OBB-A1401	
	PH slide 100×	0	0	OBB-A1402	
	Centering eyepiece	✓	✓		
Darkfield condenser	N.A. 0,85 – 0,91 (dry, paraboloid)	0	0	OBB-A1422	
llumination	6 V/20 W Halogen spare bulb (transmitted)	✓	✓	OBB-A1370	
	Blue (built-in)	✓	✓		
Colour filters	Green	✓	✓	OBB-A1188	
or transmitted Ilumination	Yellow	0	0	OBB-A1165	
	Gray	0	0	OBB-A1183	
	Gray				
C-Mount	0,5× (focus adjustable)		0	OBB-A1515	

✓ = Included with delivery

O = Option

KERN Pictograms:





360° rotatable microscope head



Fluorescence illumination for compound microscopes With 3W LED illumination and filter



WLAN data interface:

For transmitting of the picture to a mobile display device



Monocular Microscope

For the inspection with one eye



Phase contrast unit For a higher contrast



HDMI digital camera

For direct transmitting of the picture to a display device



Binocular Microscope

For the inspection with both eyes



Darkfield condenser/unit

For a higher contrast due to indirect illumination



PC software

To transfer the measurements from the device to a PC.



Trinocular Microscope

For the inspection with both eyes and the additional option for the connection of a camera



Polarising unit

To polarise the light



Automatic temperature compesation

For measurements between 10 °C and 30 °C



Abbe Condenser

With high numerical aperture for the concentration and the focusing of light



Infinity system

Infinity corrected optical system



Protection against dust and water

splashes IPxx The type of protection is shown by the



Halogen illumination

For pictures bright and rich in contrast



Zoom magnification

For stereomicroscopes



pictogram. **Battery operation**

Ready for battery operation. The battery type is specified for each device.



LED illumination

Cold, energy saving and especially long-life illumination



Parallel optical system

For stereomicroscopes, enables fatigue-proof working



Battery operation rechargable

Prepared for a rechargable battery operation



Incident illumination

For non-transparent objects



Integrated scale In the eyepiece

230 V

Mains adapter

230V/50Hz in standard version for EU. On request GB, AUS or USA version.



Transmitting illumination

For transparent objects



SD card



Power supply

Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, AUS or USA on request.

Fluorescence illumination

For stereomicroscopes



USB 2.0 digital camera

For direct transmitting of the picture to a PC



WF

Package shipment

The time required to manufacture the product internally is shown in days in the pictogram.

FL-HB0

Fluorescence illumination for compound microscopes

With 100W mercury lamp and filter

USB 3.0

USB 3.0 digital camera

For direct transmitting of the picture to a PC

Abbreviations

C-Mount Adapter for the connection of a

camera to a trinocular microscope

FPS Frames per second

H(S)WF High (Super) Wide Field

(Eyepiece with high eye point for wearers of glasses)

LWD Long Working Distance

SLR Kamera Single-Lens Reflex camera

N.A. **Numerical Aperture** **SWF** Super Wide Field

(Field number at least Ø 23 mm

for 10× eyepiece)

Working Distance W.D.

> Wide Field (Field number up to Ø 22 mm for 10× eyepiece)

Your KERN specialist dealer: