KERN **OBL 146**

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



Date of creation: 24.10.2026

Category	
Brand	Optics
Product category	Microscope
Product group	Compound microscope
Product family	OBL-14

Construction	
Dimension (W×D×H)	395×200×380 mm
Optical system	Infinity
Tube type	Binocular
Tube angle of inclination	30°
Tube 360° rotation	✓
Tube type	Butterfly
Contrasting methods	Bright field Darkfield (optional) Phase contrast Polarisation (optional) Fluorescent (optinal)
Standard objectives	4× 100× PH 10× PH 40×
Lens quality	Infinity E-Plan / Plan
Nosepiece screw-in locations	4
Interpupillary distance [Min]	50 mm
Interpupillary distance [Max]	75 mm
Diopter adjustment	one-sided
Diopter adjustment [Min]	-5
Diopter adjustment [Max]	5
Colour temperature	5500 K

Ocular	
Ocular type	Eyepiece HWF 10x / Ø 20mm with anti-fungus, high eye point
Ocular field width	HWF
Eye point	Standard
Ocular magnifications	10x
Ocular visual field	20 mm
Ocular diameter	23,2 mm

Objective	
Objectives - Details	PH-Objective Infinity Plan 10x / 0,25 anti-fungus Objective Infinity E-Plan 100x / 1,25 oil, spring, anti-fungus Objective Infinity E-Plan 4 x / 0,11 anti-fungus PH-Objective Infinity Plan 40x / 0,65 spring, anti-fungus
Objectives magnifications	4x / 10x / 40x / 100x

Illumination	
Illuminance	Transmitted light
Illumination type transmitted light	LED
Illumination intensity transmitted light	3 W
Illumination dimmable	Transmitted light
Filter possible	✓
Phase-contrast unit	PH condenser for single slot
Field diaphragm	✓

80000 | Mikroskoptisch	
Bauweise	mechanical
Weg	76 mm; 52 mm
Durchlicht möglich	✓
ATTR_microscopeTableSpecimentHolders	2
ATTR_microscopeTableUser	Right-handed

Focussing	
Field of view [Min]	0,2 mm
Field of view [Max]	5 mm
Torque regulation	✓
Fine drive minimum	0,002 mm

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Focusing mechanism	coaxial coarse and fine drive

Condensor

Condensor type	Phase contrast condenser
Condenser - Mounting	fixed
Condenser - Aperture	1,25
Phase contrast	✓

Power Supply

Supplied power supply	Power supply unit
Power supply type	Power adapter
Plug-in power supply / adapter for countries - included with the delivery	EURO
Plug-in power supply / adapter for countries - optional	AUS UK US CH
Input voltage power supply / power [Max]	100 V - 240 V AC 50/60 Hz 0,3 A
Power supply cable removable	removable
Input voltage device / power [Max]	5 V, 1 A
Power socket for mains adapter	Hollow plug, inside plus, Ø outside 5,5 mm, Ø inside 2,5 mm, long 10 mm

Environmental conditions

Storage temperature [Min]	-5 °C
Storage temperature [Max]	40 °C

Packing & Shipping

Delivery time	1 d
Dimensions packaging (W×D×H)	546×380×280 mm
Shipping method	Parcel service
Net weight approx.	6 kg
Gross weight approx.	9 kg
Shipping weight	11,6 kg
Shipping volume weight	11,6 kg

Product information

GTIN/EAN number	4045761267794
Trade number	90118000
Warranty Time	36 mon

REACH classification	no prohibited substances

Pictograms

STANDARD



OPTION

