KERN **OPO 185**

The flexible and powerful polarising microscope for all professional applications with reflected and transmitted light

Date of creation: 20.06.2026

Category

Brand	Optics
Product category	Microscope
Product group	Polarising microscope
Product family	OPO-1

Construction

Dimension (W×D×H)	500×200×500 mm
Optical system	Infinity
Tube type	Trinocular
Tube angle of inclination	30°
Tube type	Siedentopf
Light distribution	0:100 80:20
Contrasting methods	Bright field Polarisation
Standard objectives	4× 10× 20× 40× 50×
Nosepiece screw-in locations	5
Interpupillary distance [Min]	50 mm
Interpupillary distance [Max]	75 mm
Diopter adjustment	both-sided
Diopter adjustment [Min]	-5
Diopter adjustment [Max]	5

Ocular

Ocular type	Eyepiece HWF 10x / Ø 20mm with anti-fungus, high eye point
Ocular field width	HWF
Eye point	High Eye Point
Ocular magnifications	10x
Ocular visual field	20 mm
Ocular diameter	30 mm

Objective

Objectives - Details	Objective Infinity Plan 10x / 0,25 non-stress, anti-fungus Objective Infinity Plan 20x / 0,45 spring, non-stress, anti-fungus Objective Infinity Plan 4x / 0,11 non-stress, anti-fungus Objective Infinity Plan 40x / 0,65 spring, non-stress, anti-fungus Objective Infinity Plan Semi Apochromatic 50x /... non-stress, LWD
Objectives magnifications	4x / 10x / 20x / 40x / 50x

Illumination

Illuminance	Reflected light Transmitted light
Illumination type incident light	LED
Illumination type transmitted light	LED
Illumination intensity incident light	5 W
Illumination intensity transmitted light	5 W
Illumination dimmable	Incident light + Transmitted light, separate
Koehler illumination	✓
Filter possible	✓
Aperture diaphragm	✓
Field diaphragm	✓

Microscope table

Pitch Rotary axis	1°; 6'

Focussing

Field of view [Min]	0,4 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

Polarisation

Lambda slip slot	✓

Condensor

Condensor type	Abbe
Condenser - Mounting	Swing-Out
Condenser - Aperture	0,9 / 1,25
Aperture diaphragm	✓

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

Approval

CE mark	✓

Packing & Shipping

Delivery time	1 d
Dimensions packaging (W×D×H)	520×470×430 mm
Shipping method	Parcel service
Net weight approx.	13 kg
Gross weight approx.	16 kg
Shipping weight	21 kg
Shipping volume weight	21 kg

Product information

GTIN/EAN number	4045761490048
Trade number	90118000
REACH classification	no prohibited substances

Pictograms

STANDARD