

3

POLARISING MICROSCOPES





Bertrand lens, λ Slip, 360° rotatable analyser (removable)



Center-adjustable and turnable polarisation stage



"Swing-Out" condenser

3

PROFESSIONAL LINE POL

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

Features

- This device is a professional, fully-equipped polarising microscope, which uses the polarisation of light to analyse minerals, crystals and isotropic materials
- The KERN OKO 185 is a combi variant of LED incident illumination and LED transmitted illumination. A height-adjustable 0.9/0.13 Swing-out Abbe condenser which can be centred for complete Köhler illumination are part of the standard version
- A 360° revolving stage with 1° division, 6' fine division and locking function is integrated into all series as standard.

- A large selection of accessories such as, for example, a mechanical stage attachment as well as further objectives for a long working distance and filter units are also available
- 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

- Mineralogy, texture observations, material testing, observation of crystals

Applications/Samples

- More complex samples with polarising properties

Technical data

- Infinity optical system
- Quintuple nosepiece
- Siedentopf 30° inclined
- Diopter adjustment, both-sided
- Overall dimensions W×D×H 500×200×500 mm
- Net weight approx. 13 kg

STANDARD



Model Tube Eyepiece Objective quality Objectives Illumination

KERN
OPO 185 Trinocular HWF 10x/Ø 20 mm Infinity Plan 4x / 10x / 20x / 40x / 50x 5 W LED (transmitted + incident)

Model outfit		Model KERN	Order number
		OPO 185	
Eyepieces (30 mm)	HWF 10x/Ø 20 mm	✓	OBB-A1591
	HWF 10x/Ø 20 mm (reticule 0,1 mm) (adjustable)	✓	OBB-A1592
Non-stress Infinity Plan objectives (transmitted)	4x/0,11 W.D. 12,1 mm	✓	OBB-A1294
	10x/0,25 W.D. 4,64 mm	✓	OBB-A1289
	20x/0,45 (spring-loaded) W.D. 2,41 mm	✓	OBB-A1290
	40x/0,66 (spring-loaded) W.D. 0,65 mm	✓	OBB-A1292
Non-stress Infinity Plan objectives (incident) for long working distance	5x/0,13 W.D. 16,04 mm	○	OBB-A1593
	10x/0,25 W.D. 18,48 mm	○	OBB-A1594
	20x/0,4 W.D. 8,35 mm	○	OBB-A1291
	Semi apochromatic 50x/0,75 W.D. 4,25 mm	✓	OBB-A1642
	E-Plan 100x/0,85 (dry) (spring-loaded) W.D. 3 mm	○	OBB-A1595
Trinocular tube	· 30° inclined · Interpupillary distance 48 mm – 76 mm · Light distribution 0:100	✓	
Bertrand lens	Built-in, can be centred	✓	OBB-A1121
λ + ¼ λ Slip	λ Slip and 1/4 λ Slip (combination)	✓	OBB-A1316
Quartz wedge	I - IV Class	✓	OBB-A1321
Revolving round stage	360° revolving, can be centred, 1° division, 6' fine division	✓	OBB-A1332
Polarising attached mechanical stage	Mechanical stage extension for the polarisation bench	○	OBB-A1337
Swing-out condenser	Achromatic condenser, centrable (with aperture diaphragm)	✓	OBB-A1107
Polarising unit	Incident light: analyser with scale, 360° rotatable, lockable, polariser	✓	OBB-A1597
	Transmitted light: Incl. analyser and polariser, lockable, 360° rotatable	✓	OBB-A1284
Colour filters for transmitted illumination	Blue	✓	OBB-A1170
	Green	○	OBB-A1188
	Yellow	○	OBB-A1165
	Grey	○	OBB-A1183
C-Mount	1x	○	OBB-A1514
	0,75x	○	OBB-A1590
	0,5x (focus adjustable)	○	OBB-A1515

✓ = included with the delivery

○ = Option

Further accessories and spare parts
see *internet*