KERN Professional Line POL Microscope User Guide

Contents

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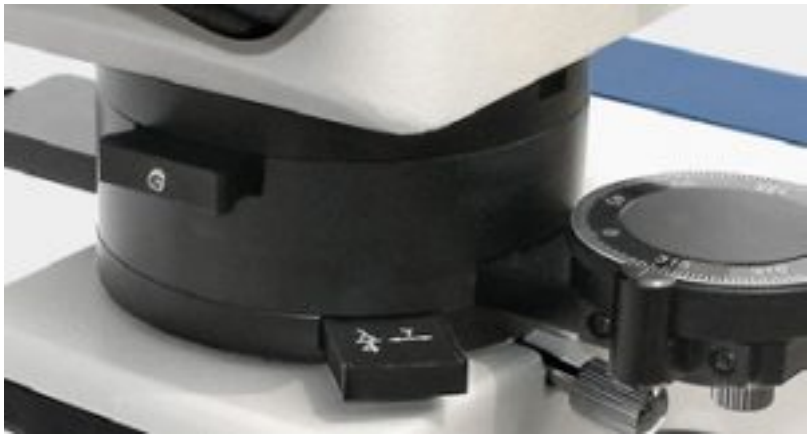
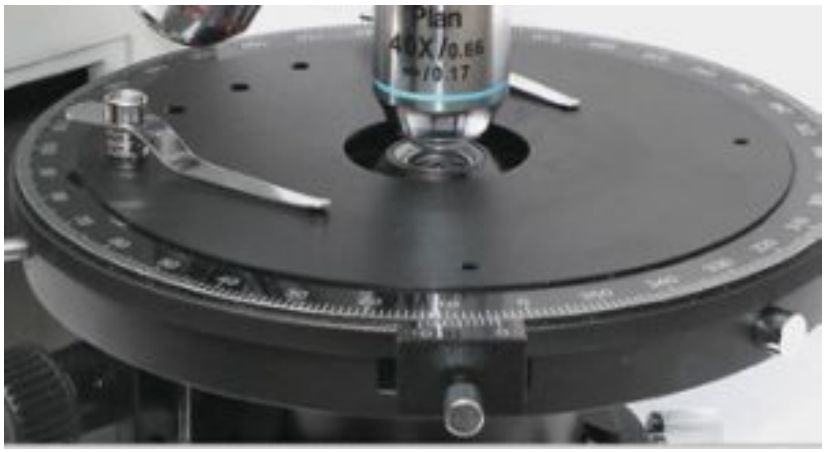


Bertrand lens, λ Slip, 360° rotatable analyser (removable)



Center-adjustable and turnable polarisation stage

“Swing-Out” condenser

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 OPO 185 is a combi variant of reflected and transmitted LED illumination. A complete Koehler illumination is integrated as standard
- A height-adjustable 0,9/0,13 swing-out Abbe condenser which can be centred, for complete Koehler illumination is part of the standard equipment
- A 360° revolving stage with 1° division, 6′ fine division and locking function is integrated as standard
- As standard KERN OPO 185 is fitted with a complete polarising unit with scale, a Bertrand lens, a λ + ¼ λ Slip as well as a quartz wedge
- 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. 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: One-sided
- Overall dimensions W×D×H
  500×200×500 mm
- Net weight approx. 14,5 kg

Model Modell	Standard configuration					
	Tube	Eyepiece	Objective quality	Objectives	Illumination	
CPO 185	Trinocular	HWF 10×/Ø 20 mm	Infinity Plan	Nonstress 4×/10×/20×/40×/60×	5W LED (incident + transmitted)	

Modellausstattung:		Modell CPO 185	Bestellnummer	
Eyepieces (30 mm)	HWF 10×/20 mm (adjustable)	✓	CB8-A1591	
	HWF 10×/20 mm (reticule 0.1 mm) (adjustable)	✓	CB8-A1592	
Non-stress Infinity Plan objectives	4×/0.10 W.D. 12.1 mm	✓	CB8-A1284	
	10×/0.25 W.D. 4.64 mm	✓	CB8-A1289	
	20×/0.40 (spring) W.D. 2.41 mm	✓	CB8-A1290	
	40×/0.65 (spring) W.D. 0.65 mm	✓	CB8-A1292	
Infinity Plan objectives (no cover glass) for long working distance	5×/0.13 W.D. 18.04 mm	○	CB8-A1593	
	10×/0.25 W.D. 18.48 mm	✓	CB8-A1594	
	20×/0.40 W.D. 8.35 mm	○	CB8-A1291	
	50×/0.70 (spring) W.D. 1.80 mm	○	CB8-A1295	
	100×/0.85 (dry) (spring) W.D. 3.08 mm	○	CB8-A1598	
Trinocular tube	· Siedentopf 30° inclined · Interpupillary distance 48 – 76 mm · Light distribution 100:0	✓		
Analyser unit with scale	360° rotatable, lockable	✓		

Bertrand lens	Built-in, center adjustable	✓	OBB-A1121	
λ = ¼ λ Slip	λ Slip and ¼ λ Slip (combination)	✓	OBB-A1318	
Quartz wedge	I – IV Class	✓	OBB-A1321	
Revolving round stage	360° rotation, center adjustable, division 1°, Vernier division 6'	✓		
Polarising attached mechanical stage	Polarising attached mechanical stage	O	OBB-A1337	
Swing out Condenser	N.A. 0.90 /1.3 swing out achromatic condenser (aperture diaphragm)	✓	OBB-A1137	
Polarising unit with scale (transmitted)	360° rotatable, lockable	✓		
Koehler illumination	5W-LED spare bulb (transmitted)	✓	OBB-A1388	
Illumination Polarising unit	5W-LED spare bulb (incident)			
Colour filters for transmitted illumination	Blue	✓	OBB-A1170	
	Green	O	OBB-A1158	
	Yellow	O	OBB-A1156	
	Grey	O	OBB-A1153	

C-Mount	1×	O	OBB-A1014	
	0.75×	O	OBB-A1508	
	0.5× (focus adjustable)	O	OBB-A1518	

✓ = Included with delivery O = Option

Pictograms

Abbreviations

Your KERN specialist dealer:

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