



Illumination unit with filter disc



Stage and objectives

Lab Line MET

The metallurgical reflected light microscope for material testing and surface testing, as well as quality assurance in industry

Features

- The KERN OKM is an excellent metallurgical reflected light microscope, e.g. for surface quality testing of raw materials and finished products in industry
- The strong, continuously dimmable 5 W LED incident illumination unit ensures excellent, high-contrast images
- The illumination unit with an integrated 5-slot filter wheel for blue, green, yellow, grey and blank means that you can quickly change the colour filter for different contrast views
- A large mechanical stage for reflected illumination applications is configured as standard. The coarse and fine focusing knob on both sides guarantees optimal adjustment and focusing of your sample

- A simple polarising unit (analyser and polariser) is included with delivery
- A large selection of different eyepieces, objectives and a polarising unit 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

- Metallurgy, material testing, quality assurance

Applications/Samples

- Opaque and thick samples, workpieces (surfaces, fold lines, coatings)

Technical data

- Infinity optical system
- Quadplex nosepiece
- Siedentopf 30° inclined/360° rotatable
- Diopter adjustment: One-sided
- Overall dimensions W×D×H 440×200×460 mm
- Net weight basic configuration approx. 8 kg

STANDARD



Model

Standard configuration

KERN	Tube	Eyepiece	Objective quality	Objectives	Illumination
OKM 173	Trinocular	HWF 10×/ø 18 mm	Infinity Plan	5×/10×/LWD 20×/LWD50×	5 W LED (incident)

Metallurgical Microscope KERN OKM-1

Model outfit	Model KERN	Order number	
	OKM 173		
Eyepieces (23,2 mm)	HWF 10×/∅ 18 mm	✓	OBB-A1403
	HWF 10×/∅ 18 mm (reticule 0,1 mm) (non-adjustable)	✓	OBB-A1349
	WF 5×/∅ 20 mm	○	OBB-A1355
	WF 12,5×/∅ 14 mm	○	OBB-A1353
	WF 16×/∅ 13 mm	○	OBB-A1354
Infinity Plan achromatic objectives	5×/0,11 W.D. 6,80 mm	○	OBB-A1268
	10×/0,25 W.D. 4,3 mm	○	OBB-A1244
	20×/0,40 (spring-loaded) W.D. 2,14 mm	○	OBB-A1251
	40×/0,66 (spring-loaded) W.D. 0,45 mm	○	OBB-A1258
Infinity Plan achromatic objectives for long working distance	5×/0,13 W.D. 24,23 mm	✓	OBB-A1525
	10×/0,25 W.D. 18,48 mm	✓	OBB-A1526
	20×/0,40 W.D. 8,35 mm	✓	OBB-A1527
	40×/0,65 W.D. 3,90 mm	○	OBB-A1259
	50×/0,75 (spring-loaded) W.D. 1,95 mm	✓	OBB-A1528
	80×/0,80 (spring-loaded) W.D. 0,85 mm	○	OBB-A1271
Trinocular tube	<ul style="list-style-type: none"> • Siedentopf 30° inclined/360° rotatable • Interpupillary distance 50 - 75 mm • Light distribution 80:20 • Diopter adjustment: One-sided 	✓	OBB-A1346
Mechanical stage	<ul style="list-style-type: none"> • Stage size W×D 200×140 mm • Travel 76×52 mm • Coaxial coarse and fine focusing knobs 	✓	
Reflected illumination unit	5-filter unit (Blue, Green, Yellow, Grey, Empty)	✓	
	Polarising unit (Incl. analyser and polariser slide)	✓	
C-Mount	1×	○	OBB-A1514
	0,5× (focus adjustable)	○	OBB-A1515

✓ = Included with delivery

○ = Option