

B+ series for materials science

HIGHLIGHTS

- Binocular and trinocular models
- WF10x/22 mm eyepieces
- Reversed quintuple nosepiece
- Plan M-IOS objectives
- Polarizer and analyzer
- Integrated mechanical stage
- Reflected NeoLED™ illumination
- Warranty 5 years



86.185

TECHNICAL SPECIFICATIONS

EYEPIECE(S)

- Wide field WF10x/22mm eyepieces

HEAD

- Binocular and trinocular Siedentopf models have 30° inclined tubes
- Interpupillary distance of 48 to 75 mm and diopter adjustment on left eyepiece

NOSEPIECE

- Revolving quintuple reversed nosepiece on ball-bearings

OBJECTIVES

- Standard equipped with infinity corrected achromatic DIN plan M-IOS 5x/0.12, 10x/0.25, 20x/0.40, 50x/0.70 IOS objectives
- Optional plan M-IOS 80x/0.80 and 100x/0.85 DIN IOS objective are also available
- All optics have an anti-reflection coating for maximum light throughput and are anti-fungus treated

FOCUSSING

- Coaxial coarse and fine adjustments, 200 graduations, 1 µm per graduation, 200 µm per rotation, total travel approximately 23 mm
- Supplied with an adjustable rack stop to prevent damage to sample and objectives
- The coarse adjustments are equipped with friction control

STAGE

- Integrated 125 x 135 mm stage with 75 x 35 mm X-Y mechanical stage. Double nonius 0.1mm

CONDENSER

- Height adjustable Abbe condenser N.A. 1.25 with iris diaphragm and filter holder

ILLUMINATION

- Transmitted intensity adjustable NeoLED™ illumination with 110-240 V internal power supply /charger and 3 NiMH AA batteries or 20 W halogen illumination with internal power supply (110 V and 230 V versions available)
- Reflected intensity adjustable 3W NeoLED™ Köhler illumination with external power supply, push-pull type rotatable polarizer and push-pull analyzer, built-in condenser with iris diaphragm and field iris diaphragm
- Integrated rotating filter disc with green, blue, yellow and white filters



Reflected illumination



Push-pull polarizer
and analyzer

PACKAGING

- Supplied with power cord, dust cover, a spare fuse and user manual
- Models with a 20 W halogen illumination are supplied with a spare bulb and a blue filter
- All packed in a polystyrene box

MODELS

	Binocular	Trinocular	Transmitted 20 W halogen illumination	Transmitted illumination LED	Reflected illumination NeoLED™
86.185	•		•		•
86.185-LED	•			•	•
86.189		•	•		•
86.189-LED		•		•	•

ACCESSORIES AND SPARE PARTS

86.573	HWF 15x/12 mm eyepiece	AE.5130	Universal SLR camera adapter with 2x projection lens for 23.2 mm tubes. Need T2 adapter
86.574	HWF 10x/18 mm eyepiece with micrometer 10mm/100 reticule	AE.5020	T2 adapter for Nikon D digital SLR cameras
80.839	Eye cup for ø 28 mm tube	AE.5040	T2 adapter for Canon EOS digital SLR cameras <i>Other T2 adapters on request</i>
86.527	Plan M-IOS DIN 5x/0.12 infinity corrected objective. Working distance 26.1 mm	AE.5202	Blue filter ø 32 mm
86.529	Plan M-IOS DIN 10x/0.25 infinity corrected objective. Working distance 20.20 mm	AE.5203	Yellow filter ø 32 mm
86.531	Plan M-IOS DIN 20x/0.40 infinity corrected objective. Working distance 8.80 mm	AE.5204	Neutral density filter ø 32 mm
86.535	Plan M-IOS DIN 50x/0.70 infinity corrected objective. Working distance 3.68 mm	AE.5205	Blue acrylic filter ø 32 mm
86.538	Plan M-IOS DIN 80x/0.80 infinity corrected objective. Working distance 1.25 mm objective.	AE.5207	Blue filter acrylic ø 31.8 mm
86.539	Plan M-IOS DIN 100x/0.85 infinity corrected objective. Working distance 0.40 mm	86.889	Spare halogen bulb 20 W / 6 V
86.851	Polarizing attachment for transmitted halogen illumination	86.101	Spare LED module for B series
86.852	Polarizing attachment for transmitted LED illumination	AE.5227	Glass fuses 1 A 250 V, 10 pieces
86.806	Mirror adapter (only for B and B+ series with halogen illumination)	PB.5155	Microscope slides 76 x 26 mm, ground edges, 50 pieces
86.860	Köhler diaphragm with centering, to be mounted on lamp house (only suitable for models with halogen illumination)	PB.5165	Cover glasses 18 x 18 mm, thickness 0.13-0.17 mm, 100 pieces
86.172	Dark field stop to be placed in filter holder (transmitted illumination). Suitable for objectives from 10x up to S40x	PB.5168	Cover glasses 22 x 22 mm, thickness 0.13-0.17 mm, 100 pieces
		PB.5245	Lens cleaning paper, 100 sheets
		PB.5274	Cleaning liquid, isopropanol alcohol 99% (200ml)
		PB.5275	Cleaning kit: lens cleaning fluid, lint free lens tissue, brush, air blower and cotton swabs