

B-plus series for Life Sciences

HIGHLIGHTS

- ✓ Microscopes for Life Sciences
- ✓ Bright field and Phase contrast
- ✓ Extended 20 mm field of view
- ✓ Quintuple nosepiece for Plan objectives
- ✓ Quadruple nosepiece for Semi-Plan objectives
- ✓ Integrated mechanical stage
- ✓ Diascopic NeoLED™ illumination
- ✓ 5 years warranty



Specifications

Eyepiece(s)

DIN WF 10x/20 mm

Head

Siedentopf trinocular versions with 30° inclined tube(s)

Interpupillary distance 48-75 mm

Diopter adjustment on left eyepiece

Nosepiece

Revolving **quintuple** reversed nosepiece on ball-bearings except models 86.019, 86.019-LED, 86.029, 86.029-LED, 86.049 and 86.049-LED that are equipped with revolving **quadruple** reversed nosepiece on ball-bearings

Objectives

Available with:

- Semi Plan SMP 4x/0.10, 10x/0.25, 20x/0.40, S40x/0.40, S100x/1.25 oil-immersion DIN objectives
- Plan 4x/0.10, 10x/0.25, 20x/0.40, S40x/0.40, S60x/0.85, S100x/1.25 oil-immersion DIN objectives
- Plan infinity corrected IOS PL 4x/0.10, 10x/0.25, S40x/0.40, S100x/1.25 oil-immersion DIN objectives
- Phase contrast PH 10x/0.25, 20x/0.40, S40x/0.40, S100x/1.25 oil-immersion DIN objectives
- Plan Phase contrast PLPH 10x/0.25, 20x/0.40, S40x/0.40, S100x/1.25 oil-immersion DIN objectives

All optical parts are anti-fungus treated

Stage

Standard 125 mm x 135 mm stage equipped with a 75 mm x 35 mm integrated mechanical stage

Condenser

In height adjustable N.A. 1.25 Abbe condenser with filter holder

Focusing adjustment

Coaxial coarse and fine adjustments, 2 µm precision

Friction adjustment

Illumination

Diascopic intensity adjustable NeoLED™ illumination with internal power supply /charger and 3 NiMH AA batteries **or** 20 W halogen illumination. For 85V-240V operation

Models	Features					
	Mono	Bino	Trino	Nosepiece for max 4 objectives	Nosepiece for max 5 objectives	Objectives
86.019-LED	•			•		Semi Plan 4x / 10x / S40x / S100-oil
86.029-LED		•		•		Semi Plan 4x / 10x / S40x / S100-oil
86.049-LED			•	•		Semi Plan 4x / 10x / S40x / S100-oil
86.069-LED	•				•	Plan 4x / 10x / S40x / S100-oil
86.079-LED		•			•	Plan 4x / 10x / S40x / S100-oil
86.099-LED			•		•	Plan 4x / 10x / S40x / S100-oil
86.129-LED		•			•	Plan IOS 4x / 10x / S40x / S100-oil
86.149-LED			•		•	Plan IOS 4x / 10x / S40x / S100-oil
86.319-LED	•			•		Semi Plan 4x / 10x / S40x / S100-oil
86.329-LED		•		•		Semi Plan Phase 4x / 10x / S40x / S100-oil
86.349-LED			•	•		Semi Plan Phase 4x / 10x / S40x / S100-oil
86.369-LED	•				•	Plan Phase 4x / 10x / S40x / S100-oil
86.379-LED		•			•	Plan Phase 4x / 10x / S40x / S100-oil
86.399-LED			•		•	Plan Phase 4x / 10x / S40x / S100-oil

Accessories & spare parts

- 86.575 HWF 10x/20 mm eyepiece
- 86.573 HWF 15x/12 mm eyepiece
- 86.574 HWF 10x/18 mm eyepiece with micrometer reticule
- 80.882 HWF 20x/12 mm eyepiece
- 80.839 Pair eyecups for eyepieces, Ø 28 mm
- 86.891 Semi Plan DIN SMP 4x/0.10 objective
- 86.893 Semi Plan DIN SMP 10x/0.25 objective
- 86.894 Semi Plan DIN SMP 20x/0.40 objective
- 86.897 Semi Plan DIN SMP S40x/0.65 objective
- 86.900 Semi Plan DIN SMP S100x/1.25-oil objective
- 80.899 Achromatic DIN S60x/0.85 objective

Accessories & spare parts (continued)

86.511	Plan DIN PL 4x/0.10 objective
86.513	Plan DIN PL 10x/0.25 objective
86.514	Plan DIN PL 20x/0.40 objective
86.517	Plan DIN PL S40x/0.65 objective
86.519	Plan DIN PL S60x/0.85 objective
86.520	Plan DIN PL S100x/1.25-oil objective
86.521	Plan DIN PL S100x/1.25-oil objective with iris diaphragm
86.560	Plan Infinity colour corrected DIN PL IOS 4x/0.10 objective
86.562	Plan Infinity colour corrected DIN PL IOS 10x/0.25 objective
86.564	Plan Infinity colour corrected DIN PL IOS 20x/0.40 objective
86.566	Plan Infinity colour corrected DIN PL IOS S40x/0.65 objective
86.567	Plan Infinity colour corrected DIN PL IOS S60x/0.85 objective
86.568	Plan Infinity colour corrected DIN PL IOS S100x/1.25-oil objective
86.413	Semi Plan Phase DIN PH 10x/0.25 objective
86.414	Semi Plan Phase DIN PH 20x/0.40 objective
86.417	Semi Plan Phase DIN PH S40x/0.65 objective
86.420	Semi Plan Phase DIN PH S100x/1.25-oil objective
86.313	Plan Phase DIN PH 10x/0.25 objective
86.314	Plan Phase DIN PH 20x/0.40 objective
86.317	Plan Phase DIN PH S40x/0.65 objective
86.320	Plan Phase DIN PH S100x/1.25-oil objective
86.613	Zernike medium dark phase contrast set. The set consists of a special phase condenser N.A.1 .25 with phase plate, an aperture for bright field illumination and a Phase Objective DIN PLPH S40x/0.65. Delivered with centering telescope and green filter
86.615	Zernike medium dark phase contrast set. The set consists of a special phase condenser N.A. 1.25 with rotating wheel of phase annuli and an aperture for bright field illumination. Complete with Achromatic Semi Plan Phase Objectives DIN PH10x/0.25, PH 20x/0.40, PH S40x/0.65 and PH S100x/1.25-oil. Delivered with centering telescope and green filter
86.617	Zernike medium dark phase contrast set. The set consists of a special phase condenser N.A. 1.25 with rotating wheel of phase annuli and an aperture for bright field illumination. Complete with Achromatic Plan Phase Objectives DIN PLPH10x/0.25, PLPH 20x/0.40, PLPH S40x/0.65 and PLPH S100x/1.25-oil. Delivered with centering telescope and green filter
86.806	Mirror with adapter to be mounted in lamp house
86.851	Polarization set. The analyser fits under the viewing head and the polarizer to be mounted on the lamp house
86.852	Polarization set for models with LED illumination. The analyser fits under the viewing head and the polarizer attaches to the lamp house

Accessories & spare parts (continued)

- 86.860 Koehler field diaphragm
- 86.172 Dark field disc to be used with objectives from 10x up to S40x. Fits the filter holder
- 86.812 Discussion head with vertical and oblique tube. Eyepieces not included
- 86.817 C-mount adapter for B series trino tube
- 86.127 Adapter for reflex SLR camera. Require either 80.861 or AE.5049 and a T-2 adapter
- 80.861 2.5x objective for 86.127 to be used with full frame digital cameras
- AE.5049 1,9x objective for 86.127 to be used with APS-C digital cameras
- AE.5040 T-2 adapter for Canon EOS SLR digital camera
- AE.5025 T-2 adapter for Nikon SLR digital camera

- 86.960 Wooden cabinet with handle and lock
- 86.961 Plastic cabinet
- 86.970 Aluminium flight case
- 86.971 Aluminium case
- 86.889 Spare halogen 6 V 20 W bulb
- AE.5202 Blue filter \varnothing 32 mm
- AE.5203 Yellow filter \varnothing 32 mm
- AE.5204 Neutral density filter \varnothing 32 mm
- AE.5205 Green filter \varnothing 32 mm
- AE.5205 Blue filter, Plexiglas \varnothing 32 mm
- AE.5227 Spare fuses 1A, pack of 10



86.970
Aluminium flight case

- AE.5155 Microscope glass slides 76 x 26 mm, edges grinded, 50 pcs
- AE.5245 Lens cleaning paper, 100 sheets
- AE.5255 Immersion oil $n = 1.482$, 25 ml

- AE.5168-B Stage with heating elements and temperature PID controller for B series
Only available with new microscopes

86. 069



86.079



86.099

