

Microscopes
for Education
and Research



The beautiful stylish design of the BioBlue series stands out among all other microscopes of this kind. It has been especially designed for biology classes of educational institutes and small laboratories

Optical equipment

The DIN WF 10x/18 eyepieces of the BioBlue mono- and binocular models provide the ideal field of view. The achromatic semiplan 45 mm DIN objectives are parfocally aligned on the 160 mm DIN tubes. When changing the magnification the image remains perfectly in focus and centered. The high precision mechanism of the coaxial coarse- and fine control combined with the spherical corrected optics enable the BioBlue to produce very sharp images. All models are equipped with a height adjustable Abbe condenser N.A. 1.25 with iris diaphragm and filter holder.



BB.4200

General technical information

Eyepiece	WF 10x/18 wide field eyepiece, secured with screw. Monocular models have an eyepiece with built-in pointer
Observation tube	Monocular or Binocular Siedentopf type head, 360° rotatable; Tube length 160 mm
Nosepiece	Reversed nosepiece for 4 objectives. Ball-bearing mechanism and click-stops
Objectives	Achromatic color coded DIN semiplan objectives The 40x, 60x and 100x-oil objectives are spring-mounted
Protection	Built in protection system for specimen and objective
Stages	A 120x120 mm plain stage or 130x130 mm stage with double layered mechanical X-Y stage are available The translation range of the mechanical X-Y stage is 70x28 mm
Focus control	Coaxial coarse- and fine adjustment knobs on both sides with 0.002 mm graduations Friction of focus control can be adjusted
Condenser	Height adjustable Abbe condenser N.A. 1.25 with iris diaphragm and filter holder
Illumination	LED 1 Watt illumination with internal power supply (85-230V) and 3 NiMH AA type batteries
Packaging	Complete with spare fuse and dustcover in styrofoam case. Models equipped with S100x-oil objectives are delivered with 5 ml immersion oil
Manual	English (also available in French, Dutch and German language)

Outstanding microscopes for the right price ...



BioBlue stand

The aluminium BioBlue stand has been designed to be very stable. A built-in protection system prevents any damage to the specimen and objective. The BB.4200 has a plain stage with 2 object clamps. All other models have a large 130x130 mm stage with vernier and a integrated mechanical translation stage with 70x28 mm travel range.



LED illuminator

The BioBlue is equipped with a 1 Watt adjustable LED illuminator, which produces no heat. Besides the low power consumption the internal universal AC power supply makes use of an external vulnerable AC-DC power adapter completely redundant. The built-in rechargeable AA type batteries allow a 60 hrs continuous operation of the microscope.



Ergonomic design

A lot of effort has been put into the ergonomical aspects of the BioBlue. A comfortable handgrip enables easy transportation. Ergonomically placed adjustment knobs minimize fatigue during long microscopy sessions. The general shape of the stand has been specifically designed to match today's standard.

BioBlue models

Model	Tube	Eyepiece	DIN SMP Objectives	Condenser	Stage
BB.4200	Mono	WF10x/18	4x, 10x, S40x	Abbe condenser	Plain stage
BB.4220	Mono	WF10x/18	4x, 10x, S40x	Abbe condenser	Integrated mechanical stage
BB.4240	Mono	WF10x/18	4x, 10x, S40x, S60x	Abbe condenser	Integrated mechanical stage
BB.4250	Mono	WF10x/18	4x, 10x, S40x, S100x	Abbe condenser	Integrated mechanical stage
BB.4260	Bino	WF10x/18	4x, 10x, S40x, S100x	Abbe condenser	Integrated mechanical stage

Accessories

- AE.5572** Wide field 10x/18 eyepiece
AE.5573 Wide field 15x/12 eyepiece
AE.5581 Wide field 10x/18 eyepiece with pointer
AE.5582 Wide field 20x/11.5 eyepiece
- AE.5591** Achromatic SMP DIN 4x objective
AE.5593 Achromatic SMP DIN 10x objective
AE.5594 Achromatic SMP DIN 20x objective
AE.5597 Achromatic SMP DIN S40x objective
AE.5599 Achromatic SMP DIN S60x objective
AE.5601 Achromatic SMP DIN S100x oil immersion objective
- AE.5150** Polarization set. The analyzer is placed in the eyepiece and the polarizer in the filter holder
- AE.5153** Polarization set for microscopes without mechanical stage
The analyzer is placed on top of the eyepiece
The polarizer is mounted in an attachable (90x65 mm) stage
Rotating object holder with object clamps graduation 360°, accuracy 5°
- AE.5504** Neutral density filter
SL.5527 Spare fuse, 10 pcs packed
SL.5501 LED replacement unit



Table with x-y stage



Table with clamps



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