

OPTIKA

M I C R O S C O P E S
I T A L Y



B-100 SERIES

Advanced Biological Microscopes for Students



OPTIKA Microscopes belongs to the group “M.A.D. Apparecchiature Scientifiche” and, with its almost 40 years experience in the field of scientific instrumentation, is worldwide known as a leading Company for optical microscopes’ production and distribution.

The Company, a team of 70 people in 3 different European locations, is engaged in the development of new models, production, quality control, sales and after-sales service.

OPTIKA microscopes excellence, concerning quality, innovation, competitive prices and customer assistance, reaches the end users through a wide network of national and international distributors.

B-100 SERIES

The series

The B-100 Series Microscopes have been designed to fulfill all requirements of educational laboratories. The six available models include a broadband standard equipment, that allows a pleasant and effective approach to the world of microscopy. The quality of optics, the reliability of mechanical parts and the extremely attractive price, effectively result in an excellent price/quality ratio, ranking these instruments at the top of their category.

Heads

360° rotating monocular and binocular heads with 45° (B-110, B-120, B-125, B-126) or 30° (B-130 and B-131) inclined eyepiece holders. Wide field WF10x/18mm eyepieces. The B-130 binocular model features interpupillary distance adjustment and dioptic compensation on both eyepiece tubes.

Focusing

The series features two types of focusing systems: the B-110 and B-120 models are provided with macro and micrometric adjustments with separate controls. The B-125, B-126, B-130 and B-131 models have coaxial controls.

Specimen stages

The B-110 and B-120 models are both equipped with a simple specimen stage (125x130 mm), the latter featuring a translation mechanism applied to the stage that replaces the object slide clamps. The B-125, B-126, B-130 and B-131 are fitted with a translating double-layer specimen stage (125x130 mm) with coaxial controls located perpendicularly to the stage.

Illuminators

Cold-light (white) fluorescent 5W lamp, that compares to a 25W filament lamp. The B-125 model is fitted with a special LED illumination system that can reach 50,000 hours of continuous use. The B-126 and B-131 models are fitted with rechargeable battery. The systems require no corrective blue filter.

B-131 and B-126 with rechargeable batteries

Battery pack: 3.6V NiMh 650mAh
 Time required for a full recharge: 8 hours
 Battery runtime with LED at maximum power: 7 hours
 Battery charging enabled while using the microscope.
 Performances estimated with batteries at their maximum efficiency.



B-100 SERIES - Technical specifications

Model	Head	Eyepiece	Objectives	Stage	Focusing	Condenser	Illuminator
B-110	Monocular	WF10x/18mm	Achromatic DIN 4x, 10x, 40x	125x130mm with sample clips	Separate coarse and fine control knobs	N.A. 0.65 with iris diaphragm	5W fluorescent tube
B-120	Monocular	WF10x/18mm	Achromatic DIN 4x, 10x, 40x and 100x	125x130mm with attached mechanical stage	Separate coarse and fine control knobs	N.A. 1.25 with iris diaphragm	5W fluorescent tube
B-125	Monocular	WF10x/18mm	Achromatic DIN 4x, 10x, 40x and 60x	125x130mm 2-layer mechanical stage	Coaxial coarse and fine control knobs	N.A. 1.25 with iris diaphragm	LED
B-126	Monocular	WF10x/18mm	Achromatic DIN 4x, 10x, 40x and 60x	125x130mm 2-layer mechanical stage	Coaxial coarse and fine control knobs	N.A. 1.25 with iris diaphragm	LED with rechargeable battery
B-130	Binocular	WF10x/18mm	Achromatic DIN 4x, 10x, 40x and 100x	125x130mm 2-layer mechanical stage	Coaxial coarse and fine control knobs	N.A. 1.25 with iris diaphragm	5W fluorescent tube
B-131	Binocular	WF10x/18mm	Achromatic DIN 4x, 10x, 40x and 100x	125x130mm 2-layer mechanical stage	Coaxial coarse and fine control knobs	N.A. 1.25 with iris diaphragm	LED with rechargeable battery

**B-110****B-120****B-130****B-131****B-125****B-126**

B-100 SERIES - Accessories

- M-001 H5x eyepiece
- M-002 WF10x/18mm eyepiece
- M-003 WF16x/12mm eyepiece
- M-004 Micrometer eyepiece WF10x/18mm
- M-131 4x achromatic objective 4x/0.10
- M-132 10x achromatic objective 10x/0.25
- M-133 20x achromatic objective 20x/0.40
- M-134 40x achromatic objective 40x/0.65
- M-135 60x achromatic objective 60x/0.85
- M-136 100x achromatic objective 100x/1.25 (oil immersion)
- M-040 Attachable mechanical stage
- M-140 Polarising set (filters only)
- M-018 5W fluorescent tube
- M-972 Plane-concave mirror, with base, Type 5
- M-031 Dust cover type 3