

B-150ALC Series

Biological microscopes with automatic light control



B-150ALC Series

The B-150ALC series has been designed to fulfill all requirements of educational laboratories.

The available models are made for pleasant and effective approach to the world of microscopy.

The quality of the optics, the reliability of the mechanical parts and the excellent price/quality ratio, rank these instruments at the top of their category.

B-151ALC

Monocular microscope 400x, fixed stage, with Automatic Light Control.

B-153ALC

Monocular microscope 600x, double layer stage, with Automatic Light Control.

B-155ALC

Monocular microscope 1000x, double layer stage, with Automatic Light Control.

B-157ALC

Binocular microscope 600x, double layer stage, with Automatic Light Control.

B-159ALC

Binocular microscope 1000x, , double layer stage, with Automatic Light Control.

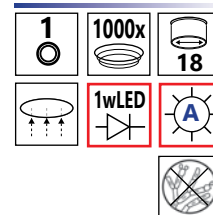
B-150POL-MALC

Monocular polarizing microscope, round stage, with Automatic Light Control.

B-150POL-BALC

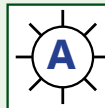
Binocular polarizing microscope, round stage, with Automatic Light Control.

B-155ALC



ALC - Automatic light control

Automatic light control: the level of light is adjusted by the microscope in order to maintain the same level as the one the user has chosen, no matter if the aperture of the diaphragm changes, another objective is inserted, opacity of the sample changes, etc.



B-150ALC Series

This series is the perfect choice for students who want an innovative and easy to use product.



Heads: Binocular observation head, 30° inclined and 360° rotatable. Interpupillary adjustment 48-75 mm. Diopter adjustment on the left eyepiece. Monocular observation head, 30° inclined and 360° rotatable.

Focusing: Coaxial coarse and fine focusing mechanism (graduation: 0.002mm) with limit stop to prevent the contact between objective and specimen. Adjustable tension of coarse focusing knob.

Specimen stages: Double layer mechanical sliding stage, 125x116mm, 76x30mm X-Y movement range. Specimen holder for one slide. Vernier scale on the two axes, accuracy: 0,1mm.

B-151ALC: plain stage, 125X120mm.

B-153ALC / B-155ALC / B-157ALC / B-159ALC: Mechanical stage, 125X116mm.

B150POL-MALC and **B-150POL-BALC:** rotatable round stage, 120mm diameter.

Illumination: White LED; light intensity controlled by a knob on the left side of the base. LED power: 1W.

Color temperature: 6300K. LED average lifetime: approx. 50.000h

External power supply: 100/240Vac, 50/60Hz. Output: 5Vdc, 500mA.

Condenser: Abbe condenser, 1.2 N.A., precentered.

B-151ALC: Abbe condenser 0.65 N.A., precentered.

B150POL-MALC and **B-150POL-BALC:** 1.2 N.A. fixed condenser.

B-150ALC Series - Technical specifications

Model	Head	Eyepiece	Objectives	Stage	Condenser	Focusing	Illuminator
B-151ALC	Monocular	WF10x/18mm	Achromatic 4X/10X/40X	Plain stage, 125x120mm with sample clips	0.65 N.A. fixed, with diaphragm	Coaxial coarse and fine focusing mechanism with limit stop	1W LED with external power supply
B-153ALC	Monocular	WF10x/18mm	Achromatic 4X/10X/40X/60X	Mechanical stage, 125x116mm with specimen holder	1.2 N.A. with diaphragm	Coaxial coarse and fine focusing mechanism with limit stop	1W LED with external power supply
B-155ALC	Monocular	WF10x/18mm	Achromatic 4x/10X/40X/100X	Mechanical stage, 125x116mm with specimen holder	1.2 N.A. with diaphragm	Coaxial coarse and fine focusing mechanism with limit stop	1W LED with external power supply
B-157ALC	Binocular	WF10x/18mm	Achromatic 4X/10X/40X/60X	Mechanical stage, 125x116mm with specimen holder	1.2 N.A. with diaphragm	Coaxial coarse and fine focusing mechanism with limit stop	1W LED with external power supply
B-159ALC	Binocular	WF10x/18mm	Achromatic 4x/10X/40X/100X	Mechanical stage, 125x116mm with specimen holder	1.2 N.A. with diaphragm	Coaxial coarse and fine focusing mechanism with limit stop	1W LED with external power supply
B-150POL-MALC	Monocular	WF10x/18mm	Achromatic 4X/10X/40X	Rotatable stage 120mm diameter	1.2 N.A. fixed, with diaphragm	Coaxial coarse and fine focusing mechanism with limit stop	1W LED with external power supply. Rotatable swing-out polarizer, slide-out analyzer
B-150POL-BALC	Binocular	WF10x/18mm	Achromatic 4x/10X/40X	Rotatable stage 120mm diameter	1.2 N.A. fixed, with diaphragm	Coaxial coarse and fine focusing mechanism with limit stop	1W LED with external power supply. Rotatable swing-out polarizer, slide-out analyzer

B-150ALC Series - Accessories

B-150ALC

M-001	Eyepiece H5x.
M-002.1	Eyepiece WF10x/18mm.
M-003	Eyepiece WF16x/12mm.
M-004	Eyepiece with micrometer WF10x/18mm.
M-008	Eyepiece with pointer WF10x/18mm.
M-137	Achromatic objective 4x/0,10.
M-138	Achromatic objective 10x/0,25.
M-139	Achromatic objective 20x/0,40.
M-141	Achromatic objective 40x/0,65.
M-142	Achromatic objective 60x/0,80.
M-143	Achromatic objective 100x/1,25 (Oil).
M-040	Attachable mechanical stage.
M-155	Polarising set (filters only).
M-031	Dust cover type 3.
M-069	Solar battery pack.
M-114	CCD camera adapter 0,45x.
M-116	CCD camera adapter 0,50x.
M-173	Photo adapter for APS-C and Full Frame Reflex cameras.
15008	OPTIKA immersion oil 10ml.



How to connect the cameras to our microscopes.

Please refer to the Adapter reference list on Digital section.

15104 - Lens cleaner, 50ml

It cleans glass quickly and effectively, without leaving residue or odor.
Ideal for precision lens or prism cleaning.



M-069 - Solar battery pack

Included battery: rechargeable – Lithium-Poly. Capacity: 2600 mAh.
Output voltage: 5,5Vdc. - Dimensions: 120x73x10 mm.
Autonomy: over 6 hours at medium intensity (X-LED³).
Charging modes: with solar panel (12h),
with external USB power supply (not included)
or from PC USB port (5h).



Headquarters and Manufacturing Facilities

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