

B-150R Series

Biological microscopes with rechargeable battery



B-150R Series

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

The available models are made for a 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.

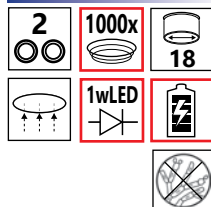
B-151R	Monocular microscope 400x, fixed stage, with rechargeable batteries.
B-153R	Monocular microscope 600x, double layer stage, with rechargeable batteries.
B-155R	Monocular microscope 1000x, double layer stage, with rechargeable batteries.
B-157R	Binocular microscope 600x, double layer stage, with rechargeable batteries.
B-159R	Binocular microscope 1000x, double layer stage, with rechargeable batteries.
B-150POL-MR	Monocular polarizing microscope, 400x, round stage, with rechargeable batteries.
B-150POL-BR	Binocular polarizing microscope, 400x, round stage, with rechargeable batteries.

R - Rechargeable battery

B-150R series comes with an internal rechargeable battery for use on field.



B-159R



B-150R Series

B-150R

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-151R: plain stage, 125X120mm.

B-153R / B-155R / B-157R / B-159R: mechanical stage, 125x116mm.

B150POL-MR and **B-150POL-BR:** 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: 6Vdc, 2,5A.

Condensers: Abbe condenser, 1.2 N.A., precentered.
B-151R: Abbe condenser 0.65 N.A., precentered. **B150POL-MR** and **B-150POL-BR:** 1.2 N.A. fixed condenser.

B-150R Series - Technical specifications

Model	Head	Eyepiece	Objectives	Stage	Condenser	Focusing	Illuminator
B-151R	Monocular 360° rotating, 30° inclined.	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 rechargeable battery
B-153R	Monocular 360° rotating, 30° inclined.	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 rechargeable battery
B-155R	Monocular 360° rotating, 30° inclined.	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 rechargeable battery
B-157R	Binocular 360° rotating, 30° inclined.	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 rechargeable battery
B-159R	Binocular 360° rotating, 30° inclined.	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 rechargeable battery
B-150POL-MR	Monocular 360° rotating, 30° inclined.	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 rechargeable battery. Rotatable swing-out polarizer, slide-out analyzer
B-150POL-BR	Binocular 360° rotating, 30° inclined.	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 rechargeable battery. Rotatable swing-out polarizer, slide-out analyzer

B-150R Series - Accessories

B-150R

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	C-Mount adapter for 1/2" sensor.
M-116	C-Mount adapter for 2/3" sensor.
M-173	Photo adapter for APS-C and Full Frame Reflex cameras.
15008	OPTIKA immersion oil 10ml.

* Only for B-151R



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

OPTIKA® S.r.l.

Via Rigla, 30 - 24010 Ponteranica (BG) - ITALIA - Tel.: +39 035.571.392 - Fax: +39 035.571.435 - info@optikamicroscopes.com

Optika Sales branches

OPTIKA® Spain

spain@optikamicroscopes.com

OPTIKA® China

china@optikamicroscopes.com

OPTIKA® USA

usa@optikamicroscopes.com

OPTIKA® Hungary

hungary@optikamicroscopes.com