

ECOVISION Series



Entry-Level Biological Microscopes For Students

A Range Of Quality Microscopes For Beginners

DESIGNED FOR NOVICE USERS

- » Reliable microscopes for education
- » Particularly recommended for primary school
- » Get great images and live videos with eyepiece cameras

BIOLOGICAL EDUCATIONAL MICROSCOPES

- » Choose among monocular and binocular heads
- » 18mm field number for a good observation area
- » Achromatic lenses for common applications



Attention To Detail

HANDY, YET EXTREMELY STABLE

- » Compact, practical and intuitive to use
- » Achromatic optics ensuring good quality images
- » Easy to handle, also by the youngest students

EASY TO TAKE CARE OF

- » Sturdy and durable for extended lifetime
- » No maintenance required
- » Dust cover (included) protects from environmental contaminants



ECOVISION Series

OPTIKA ECOVISION Series includes monocular and binocular biological microscopes, designed especially for students attending primary school. Slim and easy to carry solutions, they are equipped with all the basic controls of an optical microscope and all you need to start learning to use a scientific instrument: 18 mm field of view, up to 400x maximum magnification (1000x as optional), several options concerning stages, focusing, condenser and illumination system.

Easy To Carry Solutions

This series is characterized by extreme compactness and portability as models can be moved easily in the classroom or even outdoors.

The body of the microscope is slim and, according to the model, provided with a useful handle: the teaching activity will be facilitated and more enjoyable.

Extremely Easy And Fast Vision

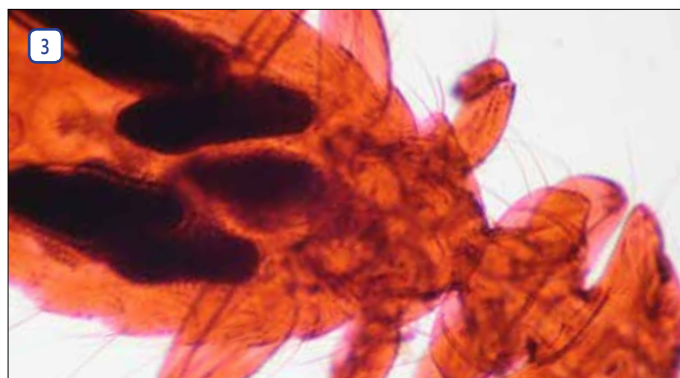
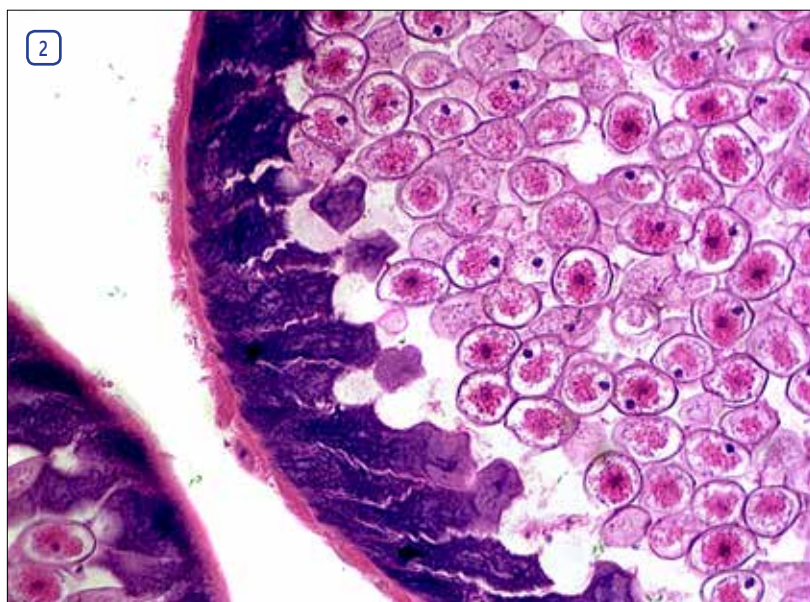
You find here the basic controls of an optical microscope and all you need to start learning to use a scientific instrument. Pre-aligned illumination and condenser simplify the operation and make necessary just the focusing of the specimen by using the dedicated knobs.

LED - Optimized Illumination

Money & energy saving thanks to LED long lifetime (65.000 hours, 22 years in case of 8 hours/day) which is more than 20 times compared to a standard halogen bulb.



Entry-Level Biological Microscopes For Students



Legend

1. Mechanical stage of B-20CR.
2. Ascaris female, 10x objective.
3. Dust mite, with B-20R and 40x objective.
4. Ergonomical coaxial coarse and fine focusing mechanism of B-20CR.

B-20R



Cordless simple microscope equipped with efficient LED illumination with rechargeable batteries. Comfortable handle makes this model ideal for the youngest students.

Observation mode: Brightfield.

Head: Monocular, 45° inclined; 360° rotating.

Eyepiece: WF10x/18 mm.

Nosepiece: Triple ball bearings revolving nosepiece.

Objectives:

- Achromatic 4x/0.10, with anti-fungus treatment
- Achromatic 10x/0.25, with anti-fungus treatment
- Achromatic 40x/0.65, with anti-fungus treatment

Specimen stage: X-Y moving and 360° rotating, 90 mm diameter, with sample clips.

Focusing: Separate coarse and fine focusing mechanism with limit stop to prevent the contact between objective and specimen.

Condenser: Diffusing filter with rotating diaphragm wheel.

Illumination: 0.3 W LED, with light intensity control, rechargeable batteries. Color temperature: 6,300 K. 100-240Vac/5Vdc external power supply.

B-20CR



Same as B-20R but complete of mechanical stage, condenser and coaxial focusing knobs.

Observation mode: Brightfield.

Head: Monocular, 45° inclined; 360° rotating.

Eyepiece: WF10x/18 mm, secured by screw.

Nosepiece: Triple ball bearings revolving nosepiece.

Objectives:

- Achromatic 4x/0.10, with anti-fungus treatment
- Achromatic 10x/0.25, with anti-fungus treatment
- Achromatic 40x/0.65, with anti-fungus treatment

Specimen stage: Double layer, 105x95 mm, moving range 50x15 mm.

Focusing: Coaxial coarse and fine focusing mechanism with limit stop to prevent the contact between objective and specimen.

Condenser: N.A. 0.65 with iris diaphragm.

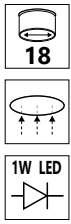
Illumination: 0.5 W LED, with light intensity control, rechargeable batteries. Color temperature: 6,300 K. 100-240Vac/5Vdc external power supply.

ECOVISION Series - M-100 Models

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Educational

M-100FX



Classic monocular microscope equipped with ultra-efficient LED illumination, 45° inclined and 360° rotating head.

Observation mode: Brightfield.

Head: Monocular, 45° inclined; 360° rotating.

Eyepiece: WF10x/18 mm, secured by screw.

Nosepiece: Triple ball bearings revolving nosepiece.

Objectives:

- Achromatic 4x/0.10, with anti-fungus treatment
- Achromatic 10x/0.25, with anti-fungus treatment
- Achromatic 40x/0.65, with anti-fungus treatment

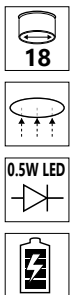
Specimen stage: Fixed stage, 120x110 mm. With sample clips.

Focusing: Separate coarse and fine focusing mechanism with limit stop to prevent the contact between objective and specimen.

Condenser: N.A. 0.65 with iris diaphragm.

Illumination: 1 W LED. Color temperature: 6,300 K. 100-240Vac/12Vdc external power supply.

M-100FLed



Classic monocular microscope equipped with efficient LED illumination and internal rechargeable batteries which provides up to 8 hours of outdoor use.

Observation mode: Brightfield.

Head: Monocular, 45° inclined; 360° rotating.

Eyepiece: WF10x/18 mm, secured by screw.

Nosepiece: Triple ball bearings revolving nosepiece.

Objectives:

- Achromatic 4x/0.10, with anti-fungus treatment
- Achromatic 10x/0.25, with anti-fungus treatment
- Achromatic 40x/0.65, with anti-fungus treatment

Specimen stage: Fixed stage, 120x110 mm. With sample clips.

Focusing: Separate coarse and fine focusing mechanism with limit stop to prevent the contact between objective and specimen.

Condenser: N.A. 0.65 with iris diaphragm.

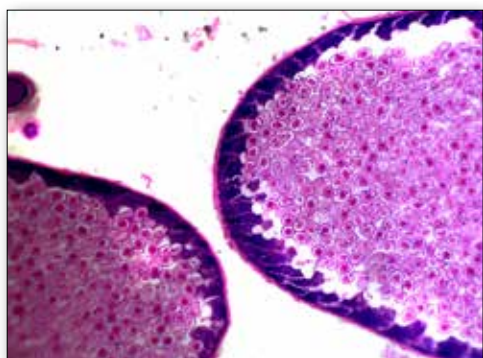
Illumination: 0.5 W LED, with light intensity control, rechargeable batteries. Color temperature: 6,300 K. 100-240Vac/12Vdc external power supply.

ECOVISION Series - Comparison chart

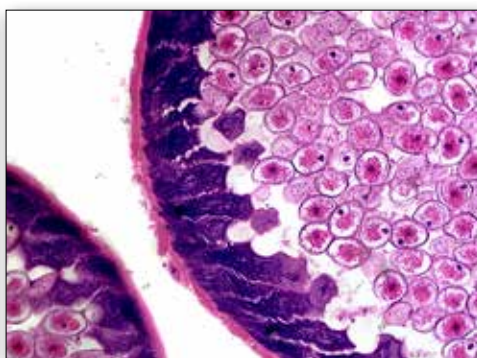
Model	Head	Eyepieces	Nosepiece	Objectives	Stage	Focusing	Condenser	Illumination
B-20R	Monocular, 45° inclined, 360° rotating	WF 10x/18	Triple, reversed	Achromatic 4x, 10x, 40x	X-Y moving, 360° rotating, 90 mm diameter, with sample clips	Separate coarse and fine	Diffusing filter with rotating diaphragm wheel	0.3 W LED, with brightness control, rechargeable batteries
B-20CR	Monocular, 45° inclined, 360° rotating	WF 10x/18	Triple, reversed	Achromatic 4x, 10x, 40x	Double layer, 105x95 mm, moving range 50x15 mm	Coaxial coarse and fine	N.A. 0.65, with iris diaphragm	0.5 W LED, with brightness control, rechargeable batteries
M-100FX	Monocular, 45° inclined, 360° rotating	WF 10x/18	Triple	Achromatic 4x, 10x, 40x	Fixed, 120x110 mm, with sample clips	Separate coarse and fine	N.A. 0.65, with iris diaphragm	1 W LED
M-100Fled	Monocular, 45° inclined, 360° rotating	WF 10x/18	Triple	Achromatic 4x, 10x, 40x	Fixed, 120x110 mm, with sample clips	Separate coarse and fine	N.A. 0.65, with iris diaphragm	0.5 W LED, with brightness control, rechargeable batteries



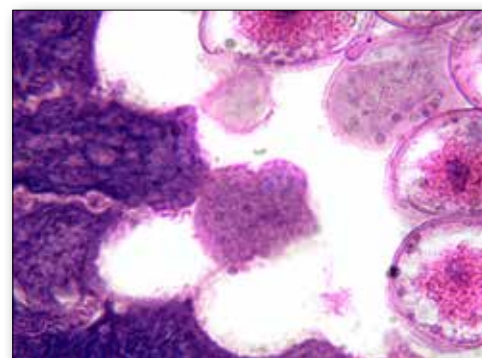
ECOVISION Series - Zoom comparison



Ascaris female - 4x objective



Ascaris female - 10x objective



Ascaris female - 40x objective

ECOVISION Series - Accessories

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Educational

ACCESSORIES FOR B-20R / B-20CR

- M-002.1 WF10x/18 eyepiece, high eyepoint.
- M-008 WF10x/18 eyepiece, with pointer.

- M-131 Achromatic objective 4x/0.10 (for B-20CR only).
- M-132 Achromatic objective 10x/0.25 (for B-20CR only).
- M-133 Achromatic objective 20x/0.40 (for B-20CR only).
- M-134 Achromatic objective 40x/0.65 (for B-20CR only).
- M-135 Achromatic objective 60x/0.85 (for B-20CR only).
- M-136 Achromatic objective 100x/1.25 (oil) (for B-20CR only).

- M-114 0.5x C-Mount projection lens.
- M-115 0.35x C-Mount projection lens.
- M-118 0.75x C-Mount projection lens.
- M-173 Photo adapter for APS-C and Full Frame Reflex cameras.
- M-069 Solar charger.
- DC-001 Plastic dust cover, small 340(l)x400(h) mm.
- 15104 Cleaning kit.

ACCESSORIES FOR M-100FX / M-100FLed

- M-001 Huygens 5x eyepiece.
- M-002.1 WF10x/18 eyepiece, high eyepoint.
- M-003 WF16x/12 eyepiece.
- M-004 WF10x/18 eyepiece, with micrometric scale (10mm/100um).
- M-008 WF10x/18 eyepiece, with pointer.

- M-131 Achromatic objective 4x/0.10.
- M-132 Achromatic objective 10x/0.25.
- M-133 Achromatic objective 20x/0.40.
- M-134 Achromatic objective 40x/0.65.
- M-135 Achromatic objective 60x/0.85.
- M-136 Achromatic objective 100x/1.25 (oil).

- M-114 0.5x C-Mount projection lens.
- M-115 0.35x C-Mount projection lens.
- M-118 0.75x C-Mount projection lens.
- M-173 Photo adapter for APS-C and Full Frame Reflex cameras.
- M-040 Attachable mechanical stage.
- M-099 Polarizing set (filters and rotating table).
- M-005 Micrometric slide, 26x76mm, with 2 X scales (1mm/100div. for biological / 10mm/100div. for stereo).
- M-069 Solar charger.
- DC-001 Plastic dust cover, small 340(l)x400(h) mm.
- 15104 Cleaning kit.
- 15008 OPTIKA immersion oil 10ml.

M-069 - Solar charger

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).



15104 - Cleaning kit

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



How to connect the cameras to our microscopes.

Please refer to the Adapter reference list on Digital section.



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