

B-60 Series



Entry-Level Biological Microscopes For Students

Cordless Educational Microscopes, Ideal To Start Exploring

PERFECT FOR STUDENT'S FIRST EXPERIENCES

- » Designed for novice users (students and primary schools especially)
- » Easy to handle, also by the youngest users
- » Longlife LED illumination (providing over 20 years of use)
- » Compact, practical and intuitive to use
- » Sturdy and durable for extended lifetime

COMFORTABLE, INTUITIVE & RELIABLE SOLUTIONS

- » 18 mm field number for a wide extended observation area
- » StagErase™ erasable stage to reduce scratches
- » Arm/wrist rest support to reduce the fatigue during use
- » Cordless use, totally independent from mains/batteries connection
- » External power supply for enhanced safety and convenient servicing





B-60 Series

A wide range of cordless, modern microscopes ideal for students and mainly primary schools with achromatic lenses, FN 18 eyepieces, finite optical system, coaxial focusing, StagErase™ eraseable fixed or mechanical stage and 1 W LED illumination with rechargeable batteries. Slim and easy to carry, all the models are equipped with arm/wrist rest support to reduce the fatigue during use and long lasting LED illumination to provide over 20 years of use



Arm/wrist rest support to reduce the fatigue during use

Students get relaxed and stay relaxed when using the microscope! Effective in preventing fatigue during operation, increasing the ergonomics and the performance as a result

StagErase™ eraseable stage to remove scratches

Here's something you've never seen before! This new, revolutionary stage is coated with a special painting to reduce accidental scratches to the minimum and facilitate their removal



Cordless use, totally independent from mains/batteries connection

All models work with or without the batteries in place and are provided with three NiMH rechargeable batteries for outdoor use (4-hour autonomy, at medium intensity)

External power supply for enhanced safety and convenient servicing

OPTIKA's safety first approach drives to the use of a low voltage multi-plug, external power supply in order to prevent any risk of electric shock and heatflow inside the unit

Longlife LED illumination (providing over 20 years of use)

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



B-61



Cordless, modern monocular microscope ideal for students and mainly primary schools with achromatic lenses (400x), FN 18 eyepiece, finite optical system, coaxial focusing, StagErase™ erasable fixed stage and 1 W LED illumination with rechargeable batteries. Slim and easy to carry, it is equipped with arm/wrist rest support to reduce the fatigue during use and long lasting LED illumination to provide over 20 years of use

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

Eyepiece: WF10x/18 mm, secured by screw.

Nosepiece: Quadruple ball bearings revolving nosepiece, reversed.

Objectives:

- Achromatic 4x/0.10
- Achromatic 10x/0.25
- Achromatic 40x/0.65.

All with anti-fungus treatment.

Specimen stage: StagErase™ erasable fixed stage, 120x110 mm, with sample clips.

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: 1 W LED, with brightness control, rechargeable batteries. Color temperature: 6,300 K. Multi-plug 100-240Vac/5Vdc external power supply.

B-62



Cordless, modern monocular microscope ideal for students and mainly primary schools with achromatic lenses (400x), FN 18 eyepiece, finite optical system, coaxial focusing, StagErase™ erasable mechanical stage, Abbe condenser and 1 W LED illumination with rechargeable batteries. Slim and easy to carry, it is equipped with arm/wrist rest support to reduce the fatigue during use and long lasting LED illumination to provide over 20 years of use

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

Eyepiece: WF10x/18 mm, secured by screw.

Nosepiece: Quadruple ball bearings revolving nosepiece, reversed.

Objectives:

- Achromatic 4x/0.10
- Achromatic 10x/0.25
- Achromatic 40x/0.65.

All with anti-fungus treatment.

Specimen stage: StagErase™ erasable mechanical stage, 125x125 mm, 62x24 mm X-Y movement range. Vernier scale on the two axes, accuracy: 0.1 mm.

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

Condenser: Abbe N.A. 1.25, pre-centered, focusable, with iris diaphragm.

Illumination: 1 W LED, with brightness control, rechargeable batteries. Color temperature: 6,300 K. Multi-plug 100-240Vac/5Vdc external power supply.

B-63



Cordless, modern monocular microscope ideal for students and mainly primary schools with achromatic lenses (600x), FN 18 eyepiece, finite optical system, coaxial focusing, StagErase™ erasable mechanical stage, Abbe condenser and 1 W LED illumination with rechargeable batteries. Slim and easy to carry, it is equipped with arm/wrist rest support to reduce the fatigue during use and long lasting LED illumination to provide over 20 years of use

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

Eyepiece: WF10x/18 mm, secured by screw.

Nosepiece: Quadruple ball bearings revolving nosepiece, reversed.

Objectives:

- Achromatic 4x/0.10
- Achromatic 10x/0.25
- Achromatic 40x/0.65
- Achromatic 60x/0.85.

All with anti-fungus treatment

Specimen stage: StagErase™ erasable mechanical stage, 125x125 mm, 62x24 mm X-Y movement range. Vernier scale on the two axes, accuracy: 0.1 mm.

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

Condenser: Abbe N.A. 1.25, pre-centered, focusable, with iris diaphragm.

Illumination: 1 W LED, with brightness control, rechargeable batteries. Color temperature: 6,300 K. Multi-plug 100-240Vac/5Vdc external power supply.

B-65



Cordless, modern monocular microscope ideal for students and mainly primary schools with achromatic lenses (1000x), FN 18 eyepiece, finite optical system, coaxial focusing, StagErase™ erasable mechanical stage, Abbe condenser and 1 W LED illumination with rechargeable batteries. Slim and easy to carry, it is equipped with arm/wrist rest support to reduce the fatigue during use and long lasting LED illumination to provide over 20 years of use

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

Eyepiece: WF10x/18 mm, secured by screw.

Nosepiece: Quadruple ball bearings revolving nosepiece, reversed.

Objectives:

- Achromatic 4x/0.10
- Achromatic 10x/0.25
- Achromatic 40x/0.65
- Achromatic 100x/1.25 (oil).

All with anti-fungus treatment.

Specimen stage: StagErase™ erasable mechanical stage, 125x125 mm, 62x24 mm X-Y movement range. Vernier scale on the two axes, accuracy: 0.1 mm.

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

Condenser: Abbe N.A. 1.25, pre-centered, focusable, with iris diaphragm.

Illumination: 1 W LED, with brightness control, rechargeable batteries. Color temperature: 6,300 K. Multi-plug 100-240Vac/5Vdc external power supply.

B-66

Cordless, modern binocular microscope ideal for students and mainly primary schools with achromatic lenses (400x), FN 18 eyepieces, finite optical system, coaxial focusing, StagErase™ erasable mechanical stage, Abbe condenser and 1 W LED illumination with rechargeable batteries. Slim and easy to carry, it is equipped with arm/wrist rest support to reduce the fatigue during use and long lasting LED illumination to provide over 20 years of use

Head: Binocular, 30° inclined; 360° rotating.
Dioptic adjustment: Left eyepiece.

Eyepiece: WF10x/18 mm, secured by screw

Nosepiece: Quadruple ball bearings revolving nosepiece, reversed.

Objectives:

- Achromatic 4x/0.10
- Achromatic 10x/0.25
- Achromatic 40x/0.65.

All with anti-fungus treatment.

Specimen stage: StagErase™ erasable mechanical stage, 125x125 mm, 62x24 mm X-Y movement range. Vernier scale on the two axes, accuracy: 0.1 mm.

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

Condenser: Abbe N.A. 1.25, pre-centered, focusable, with iris diaphragm.

Illumination: 1 W LED, with brightness control, rechargeable batteries. Color temperature: 6,300 K. Multi-plug 100-240Vac/5Vdc external power supply.

B-67

Cordless, modern binocular microscope ideal for students and mainly primary schools with achromatic lenses (600x), FN 18 eyepieces, finite optical system, coaxial focusing, StagErase™ erasable mechanical stage, Abbe condenser and 1 W LED illumination with rechargeable batteries. Slim and easy to carry, it is equipped with arm/wrist rest support to reduce the fatigue during use and long lasting LED illumination to provide over 20 years of use

Head: Binocular, 30° inclined; 360° rotating.
Dioptic adjustment: Left eyepiece.

Eyepiece: WF10x/18 mm, secured by screw

Nosepiece: Quadruple ball bearings revolving nosepiece, reversed.

Objectives:

- Achromatic 4x/0.10
- Achromatic 10x/0.25
- Achromatic 40x/0.65
- Achromatic 60x/0.85.

All with anti-fungus treatment.

Specimen stage: StagErase™ erasable mechanical stage, 125x125 mm, 62x24 mm X-Y movement range. Vernier scale on the two axes, accuracy: 0.1 mm.

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

Condenser: Abbe N.A. 1.25, pre-centered, focusable, with iris diaphragm.

Illumination: 1 W LED, with brightness control, rechargeable batteries. Color temperature: 6,300 K. Multi-plug 100-240Vac/5Vdc external power supply.

B-60 Series - Models

B-69



Cordless, modern binocular microscope ideal for students and mainly primary schools with achromatic lenses (1000x), FN 18 eyepieces, finite optical system, coaxial focusing, StagErase™ erasable mechanical stage, Abbe condenser and 1 W LED illumination with rechargeable batteries. Slim and easy to carry, it is equipped with arm/wrist rest support to reduce the fatigue during use and long lasting LED illumination to provide over 20 years of use

Head: Binocular, 30° inclined; 360° rotating.
Dioptric adjustment: Left eyepiece.

Eyepiece: WF10x/18 mm, secured by screw

Nosepiece: Quadruple ball bearings revolving nosepiece, reversed.

Objectives:

- Achromatic 4x/0.10
- Achromatic 10x/0.25
- Achromatic 40x/0.65
- Achromatic 100x/1.25 (oil).

All with anti-fungus treatment.

Specimen stage: StagErase™ erasable mechanical stage, 125x125 mm, 62x24 mm X-Y movement range. Vernier scale on the two axes, accuracy: 0.1 mm.

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

Condenser: Abbe N.A. 1.25, pre-centered, focusable, with iris diaphragm.

Illumination: 1 W LED, with brightness control, rechargeable batteries. Color temperature: 6,300 K. Multi-plug 100-240Vac/5Vdc external power supply.

B-60 Series - Comparison chart

Model	Head	Eyepiece(s)	Nosepiece	Objectives	Stage	Focusing	Condenser	Illuminator
B-61	Monocular, 360° rotating, 45° inclined	Wide Field 10x/18mm	Quadruple, reversed	Achromatic 4x, 10x, 40x	Fixed, 120x110 mm	Coaxial coarse and fine focusing	N.A. 0.65 with iris diaphragm	1 W LED, brightness control, rechargeable batteries
B-62	Monocular, 360° rotating, 45° inclined	Wide Field 10x/18mm	Quadruple, reversed	Achromatic 4x, 10x, 40x	Mechanical, 125x125 mm with 62x24 mm X-Y moving range	Coaxial coarse and fine focusing	N.A. 1.25 Abbe type with iris diaphragm	1 W LED, brightness control, rechargeable batteries
B-63	Monocular, 360° rotating, 45° inclined	Wide Field 10x/18mm	Quadruple, reversed	Achromatic 4x, 10x, 40x, 60x	Mechanical, 125x125 mm with 62x24 mm X-Y moving range	Coaxial coarse and fine focusing	N.A. 1.25 Abbe type with iris diaphragm	1 W LED, brightness control, rechargeable batteries
B-65	Monocular, 360° rotating, 45° inclined	Wide Field 10x/18mm	Quadruple, reversed	Achromatic 4x, 10x, 40x, 100x (oil)	Mechanical, 125x125 mm with 62x24 mm X-Y moving range	Coaxial coarse and fine focusing	N.A. 1.25 Abbe type with iris diaphragm	1 W LED, brightness control, rechargeable batteries
B-66	Binocular, 360° rotating, 30° inclined	Wide Field 10x/18mm	Quadruple, reversed	Achromatic 4x, 10x, 40x	Mechanical, 125x125 mm with 62x24 mm X-Y moving range	Coaxial coarse and fine focusing	N.A. 1.25 Abbe type with iris diaphragm	1 W LED, brightness control, rechargeable batteries
B-67	Binocular, 360° rotating, 30° inclined	Wide Field 10x/18mm	Quadruple, reversed	Achromatic 4x, 10x, 40x, 60x	Mechanical, 125x125 mm with 62x24 mm X-Y moving range	Coaxial coarse and fine focusing	N.A. 1.25 Abbe type with iris diaphragm	1 W LED, brightness control, rechargeable batteries
B-69	Binocular, 360° rotating, 30° inclined	Wide Field 10x/18mm	Quadruple, reversed	Achromatic 4x, 10x, 40x, 100x (oil)	Mechanical, 125x125 mm with 62x24 mm X-Y moving range	Coaxial coarse and fine focusing	N.A. 1.25 Abbe type with iris diaphragm	1 W LED, brightness control, rechargeable batteries

B-60 Series - Accessories

Eyecups & Eyepieces

M-001	Huygens 5x eyepiece
M-002.2	WF10x/18 eyepiece
M-004.2	WF10x/18 micrometric eyepiece
M-008.2	WF10x/18 eyepiece, with pointer
M-003.2	WF15x/12 eyepiece
M-162	WF20x/10 eyepiece

Stages

M-040	Attachable mechanical stage (only for B-61)
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Condensers & Filters

M-155.2	Polarising set (filters only)
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Camera Adapters

M-115	0.35x C-Mount projection lens
M-114	0.5x C-Mount projection lens
M-118	0.75x C-Mount projection lens

Miscellaneous

15008	Immersion oil, 10ml
15009	Immersion oil, 100ml
15104	Cleaning kit
DC-001	Plastic dust cover, small, 340(l)x400(h) mm
M-005	Micrometric slide, 26x76mm, with 2 scales (1mm/100 & 10mm/100)
M-069	Solar charger
M-970	Plane-concave mirror, with base (only for B-61)
AB-010	Antibacterial surface treatment, only for newly purchased microscope

15104 - Cleaning kit

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



M-069 - Solar charger

Included battery: rechargeable – Lithium-Poly. Capacity: 2500 mAh. Output voltage: 5 Vdc. - Autonomy: over 6 hours at medium intensity (X-LED³). Charging models: with solar panel (12h), with external USB power supply (2.5h)



How to connect the cameras to our microscopes.

Please refer to the Adapter reference list on Digital section.

v 6.7 - OPTIKA reserves the right to make corrections, modifications, enhancements, improvements and other changes to its products at any time without notice.

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