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Bresser 8851300E8G000

Bresser Junior Microscope 8851300E8G000 (40x-640x) User Manual

INTRODUCTION

This manual provides comprehensive instructions for the safe and effective use of your Bresser Junior Microscope 8851300E8G000. Designed for beginners, this transmitted light microscope offers magnification from 40x to 640x, featuring LED illumination and a wide range of accessories to facilitate initial explorations into the microscopic world.



Image: A collection of Bresser Junior Microscopes in various colors, showcasing the product's design.

SAFETY INFORMATION

Please read and understand all safety instructions before using the microscope. Keep this manual for future reference.

- This device contains small parts that could be swallowed by children. Keep the microscope and accessories out of reach of small children.
- Batteries must be inserted with correct polarity. Do not mix old and new batteries or different types of batteries. Remove batteries if the device will not be used for an extended period.
- Do not look directly into the sun or other bright light sources through the microscope, as this can cause permanent eye damage.
- Avoid exposing the microscope to high temperatures or direct sunlight.
- Handle glass slides and cover slips with care to prevent cuts. Adult supervision is recommended for younger users.

PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- Microscope
- 3 Permanent Slides
- 8 Microscope Slides, Labels, and Cover Slips
- 2 Sample Materials (Yeast, Shrimp Eggs)
- 1 Incubator
- 3 Sample Vials
- 1 Microcut
- 1 Tweezers
- 1 Pipette
- 1 Small Hand Magnifier
- 1 Measuring Cup
- 1 Poster
- 3 AA Batteries
- Instruction Manual



Image: All included accessories for the Bresser Junior Microscope.

SETUP

1. **Battery Installation:** Locate the battery compartment at the base of the microscope. Open it and insert the 3 AA batteries, ensuring correct polarity (+/-). Close the compartment securely.
2. **Placement:** Place the microscope on a stable, flat surface.
3. **Eyepiece Insertion:** Insert the eyepiece (WF10x-WF16x) into the top tube of the microscope.
4. **Objective Lens Selection:** Rotate the revolving nosepiece to select the lowest magnification objective lens (e.g., 4x).
5. **Stage Clips:** Lift the stage clips and place a prepared slide onto the stage, securing it with the clips.



Image: Side view of the microscope, illustrating the objective lenses and focusing mechanism.

OPERATING THE MICROSCOPE

1. **Turn On Illumination:** Locate the LED illumination switch at the base of the microscope and turn it on. Adjust the brightness if a dimmer is present.
2. **Focusing:** While looking through the eyepiece, slowly turn the coarse focus knob (larger knob on the side) to bring the specimen into approximate focus. Then, use the fine focus knob (smaller knob, if present) for sharper detail.
3. **Changing Magnification:** To increase magnification, rotate the revolving nosepiece to a higher power objective lens (e.g., 10x, 40x). Re-adjust focus as needed. The eyepiece itself can also be adjusted for different magnifications (WF10x-WF16x).
4. **Using the Smartphone Adapter:**
 - Attach the smartphone adapter to the eyepiece.

- Secure your smartphone in the adapter, aligning the phone's camera with the eyepiece.
- Open your phone's camera app to view and capture images or videos of your specimen.



Image: Microscope with smartphone adapter for digital viewing.



Image: A child using the Bresser Junior Microscope.

MAINTENANCE

- **Cleaning Lenses:** Use a soft, lint-free cloth specifically designed for optical lenses to clean the eyepiece and objective lenses. Do not use abrasive materials or harsh chemicals.
- **Cleaning Body:** Wipe the microscope body with a soft, damp cloth. Avoid getting moisture into electronic components.
- **Storage:** When not in use, store the microscope in a clean, dry, dust-free environment. Cover it with a dust cover if available. Remove batteries if storing for extended periods.
- **Handling Slides:** Always handle slides by their edges to avoid fingerprints on the viewing area.

TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No illumination	Batteries are dead or incorrectly inserted.	Check battery polarity, replace batteries if necessary. Ensure illumination switch is ON.
Image is blurry or unclear	Incorrect focus, wrong objective lens, dirty lens, or slide not properly placed.	Adjust focus knobs. Ensure objective lens is clicked into place. Clean lenses. Re-position slide.
Dark field of view	Objective lens not aligned, illumination too low, or aperture not open.	Rotate nosepiece until objective clicks into position. Check illumination. Adjust diaphragm/aperture.

SPECIFICATIONS

Model Name	Junior Microscope
Magnification Range	40x - 640x
Illumination Type	LED
Material	Plastic
Color	Red
Product Dimensions (L x W x H)	16 x 10 x 22 cm
Viewing Angle	45 Degrees
Voltage	4.5 Volts (3x AA Batteries)
Compatible Devices	Laptop, Smartphone (with adapter)

WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the official Bresser website or contact their customer service department. Keep your purchase receipt as proof of purchase.

You can visit the [Bresser Store on Amazon](#) for more information.