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BRESSER 8851300WXH000

Bresser Junior Microscope 40x-640x User Manual

Model: 8851300WXH000

INTRODUCTION

Welcome to the world of microscopy with your Bresser Junior Microscope 40x-640x! This instrument is designed for quick and easy discovery, providing an educational introduction to the microscopic world. It is an excellent tool to stimulate curiosity and scientific learning for users over 8 years old.

The microscope features adjustable LED illumination and offers a magnification range from 40x to 640x. It is also equipped with a diaphragm disc to adjust the light beam for optimal viewing. Thanks to its battery operation, this portable microscope can be used anywhere, facilitating microscopic observations at home, school, or while traveling.

WHAT'S IN THE BOX

Please check the contents of your package to ensure all items are present:

- Microscope
- Smartphone holder
- Prepared slides
- Blank slides and cover slips
- Experiment kit (including brine shrimp eggs and yeast)
- Sample bottles
- Microtome
- Tweezers
- Pipette
- Magnifying glass
- Measuring cup
- Instruction manual



Image: The Bresser Junior Microscope with all its accessories, including the smartphone holder, prepared slides, experiment kit, and tools.



Image: A detailed view of the various accessories included with the microscope, such as sample bottles, tweezers, pipette, and magnifying glass.

SETUP

1. **Battery Installation:** The microscope requires 3 AA batteries (included). Locate the battery compartment, usually at the base of the microscope. Insert the batteries according to the polarity markings.
2. **Placement:** Place the microscope on a stable, flat surface. Ensure adequate lighting in your observation area.
3. **Initial Adjustment:** Rotate the revolving nosepiece to select the lowest magnification objective lens (e.g., 4x). Adjust the eyepiece for comfortable viewing.
4. **Smartphone Holder Attachment:** To use the smartphone holder, gently slide it onto the eyepiece. Secure your smartphone in the holder, aligning its camera with the eyepiece lens.



Image: The Bresser Junior Microscope with a smartphone securely mounted on its eyepiece using the included adapter, ready for capturing images.

OPERATING INSTRUCTIONS

1. **Placing a Specimen:** Place a prepared slide or your own specimen on the stage clips. Ensure it is centered over the light aperture.
2. **Adjusting Illumination:** Turn on the LED light source. Use the diaphragm disc located beneath the stage to adjust the amount of light passing through the specimen. Experiment with different settings for optimal contrast.
3. **Adjusting Magnification:** Start with the lowest magnification objective lens. Look through the eyepiece and slowly turn the coarse focus knob until the specimen comes into view. Use the fine focus knob for sharper detail. To increase magnification, rotate the revolving nosepiece to a higher power objective (e.g., 10x, 40x). Re-adjust focus as needed.
4. **Using the Smartphone Adapter:** Once your specimen is in focus through the eyepiece, use your smartphone camera to view and capture the magnified image. Adjust the phone's position slightly until the microscope's field of view fills the screen.

5. **Experiment Kit:** The included experiment kit allows you to raise brine shrimp (*Artemia*). Follow the instructions provided with the kit for setting up the culture and observing the shrimp under the microscope.



Image: A child intently looking through the eyepiece of the Bresser Junior Microscope, demonstrating typical usage.

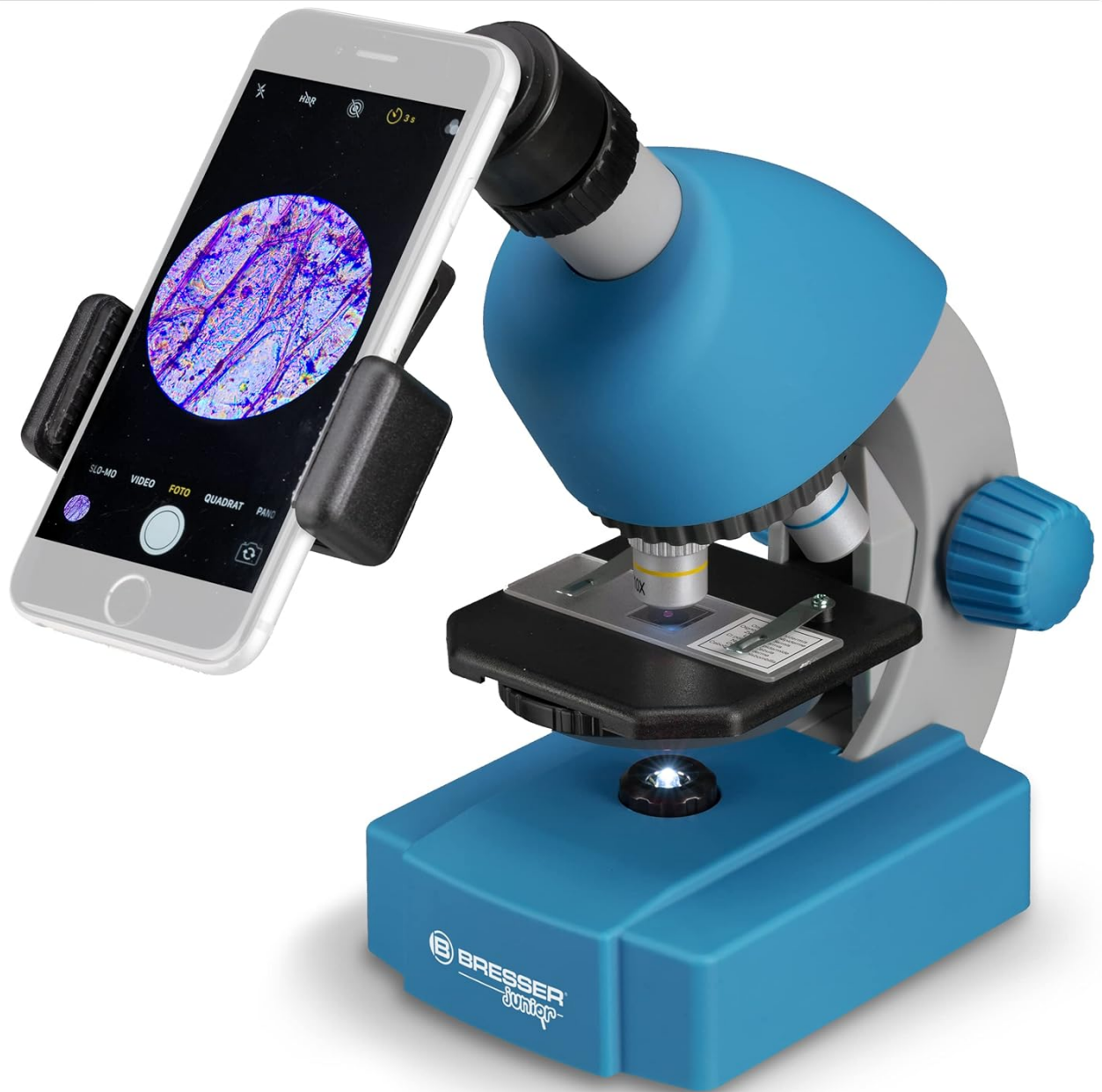


Image: A close-up view of the revolving nosepiece and objective lenses (4x, 10x, 40x) of the Bresser Junior Microscope.



Image: A detailed view showing the eyepiece and the smartphone adapter attached to the Bresser Junior Microscope, highlighting how a phone can be used for observation.

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:** Store the microscope in a clean, dry place, away from direct sunlight and extreme temperatures. Cover it with a dust cover when not in use.
- **Battery Replacement:** Replace batteries when the LED illumination dims or stops working. Always use fresh AA batteries and dispose of old batteries responsibly.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No image visible	LED light is off; specimen not centered; focus not adjusted.	Turn on LED light; center specimen; adjust focus knobs.
Image is blurry	Focus not properly adjusted; lenses are dirty.	Use fine focus knob for sharp image; clean lenses with optical cleaning cloth.
LED light not working	Batteries are dead or incorrectly inserted; light switch is off or faulty.	Check battery orientation and replace if necessary; ensure light switch is on. If the light cannot be turned off with the dial, remove the batteries to power off.
Smartphone image is not clear or centered	Smartphone camera not aligned with eyepiece; microscope not in focus.	Adjust smartphone position on the holder until the image is centered; ensure microscope is focused before attaching the phone.

SPECIFICATIONS







- **Brand:** BRESSER
- **Model Number:** 8851300WXH000
- **Magnification:** 40x - 640x
- **Light Source:** LED
- **Power:** 3 x AA Batteries (included)
- **Dimensions (L x W x H):** 16 x 10 x 22 cm
- **Weight:** 556 grams
- **Material:** Plastic
- **Color:** Blue
- **Objective Description:** Plan Achromatic, 40-640x
- **Real Angle of View:** 45 degrees

WARRANTY AND SUPPORT

For detailed warranty information, please refer to the warranty card included with your product or visit the official BRESSER website. If you encounter any issues or require technical assistance, please contact BRESSER customer support or the retailer from whom you purchased the product.



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 <p>BRESSER Mikroskop Microscope Art. No. 8851301</p> <ul style="list-style-type: none"> Bedienungsanleitung Operating instructions Mode d'emploi Manual de instrucciones Handleiding (Dutch) Stručná příručka (Czech) Manual de instruții (Romanian) 	<p>Bresser Junior Microscope Operating Instructions Model 8851301</p> <p>User manual and operating instructions for the Bresser Junior Microscope (Art. No. 8851301), detailing parts, setup, normal observation, electronic light use, specimen preparation, experiments, cleaning, disposal, and warranty.</p>
 <p>NATIONAL GEOGRAPHIC KIDS MIKROSKOP MICROSCOPE 40X-640X</p> <ul style="list-style-type: none"> Bedienungsanleitung Operating instructions Mode d'emploi Manual de instrucciones Handleiding (Dutch) Stručná příručka (Czech) Manual de instruții (Romanian) 	<p>National Geographic Kids Mikroskop 40X-640X Bedienungsanleitung</p> <p>Entdecken Sie die Welt im Kleinen mit dem National Geographic Kids Mikroskop 40X-640X von Bresser. Diese Anleitung bietet detaillierte Informationen zur Einrichtung, Bedienung und spannenden Experimenten für junge Forscher.</p>
 <p>BRESSER Biolux SEL Schülermikroskop Student Microscope Art. No. 8851302</p> <ul style="list-style-type: none"> Bedienungsanleitung Operating instructions Mode d'emploi Manual de instrucciones Handleiding (Dutch) Stručná příručka (Czech) Manual de instruții (Romanian) 	<p>Bresser Biolux SEL Schülermikroskop Bedienungsanleitung</p> <p>Diese Bedienungsanleitung bietet umfassende Anleitungen für das Bresser Biolux SEL Schülermikroskop. Konzipiert für die Bildungsforschung und wissenschaftliche Entdeckungen, verfügt dieses Mikroskop über eine doppelte Beleuchtung (Durchlicht und Auflicht) sowie intuitive Bedienelemente, was es zu einem hervorragenden Werkzeug für angehende Wissenschaftler und neugierige Köpfe macht. Entdecken Sie die faszinierende Welt der Mikroskopie. Lernen Sie, wie Sie Ihr Bresser Biolux SEL Mikroskop einrichten, bedienen und warten, um eine optimale Leistung und ein bereicherndes Lernerlebnis zu erzielen.</p>
 <p>BRESSER Mikroskop Set Microscope Set Art. No. 9820301</p> <ul style="list-style-type: none"> Bedienungsanleitung Operating instructions Mode d'emploi Manual de instrucciones Handleiding (Dutch) Stručná příručka (Czech) Manual de instruții (Romanian) 	<p>Bresser Junior Microscope Set 40x-1024x Operating Instructions</p> <p>Comprehensive operating instructions for the Bresser Junior Microscope Set 40x-1024x, covering setup, usage, maintenance, and troubleshooting. Includes safety warnings and product specifications.</p>
 <p>BRESSER Mikroskop-Set Microscope Set Art. No. 9820301</p> <ul style="list-style-type: none"> Bedienungsanleitung Operating instructions Mode d'emploi Manual de instrucciones Handleiding (Dutch) Stručná příručka (Czech) Manual de instruții (Romanian) 	<p>Bresser Junior Mikroskop-Set 40x-1024x Bedienungsanleitung</p> <p>Umfassende Bedienungsanleitung für das Bresser Junior Mikroskop-Set mit Vergrößerungen von 40x bis 1024x. Enthält Anleitungen zur Einrichtung, Nutzung, Wartung und Sicherheitshinweise für dieses Lernmikroskop.</p>
 <p>FREEK VONK x BRESSER MICROSCOOPSET KIT DE MICROSCOPE JEU DE MICROSCOPE Art. No. 9820301</p> <ul style="list-style-type: none"> Handleiding Operating instructions Bedienungsanleitung Mode d'emploi Instrucciones de uso 	<p>Freek Vonk x Bresser Microscope Set (Art. No. 9820301) - Operating Instructions and Guide</p> <p>Detailed operating instructions, parts list, safety guidelines, and usage tips for the Freek Vonk x Bresser Microscope Set, model number 9820301. Includes information on assembly, observation, specimen preparation, and maintenance.</p>