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> Bresser USB Digital Microscope with 20x/80x/350x Magnification User Manual

Bresser 9619800

Bresser USB Digital Microscope User Manual

Model: 9619800

INTRODUCTION

This manual provides comprehensive instructions for the Bresser USB Digital Microscope (Model 9619800). This device is designed for observing magnified objects and capturing images or videos directly to your computer. It features an integrated camera and offers multiple magnification levels, making it suitable for educational and hobbyist use.

SAFETY INFORMATION

Please read all safety instructions before using the microscope to ensure safe operation and prevent damage to the device or injury. Keep the device away from water and high humidity. Do not attempt to disassemble or repair the microscope yourself. Use only the provided accessories and power sources.

- Do not look directly into the light source.
- Keep out of reach of small children due to small parts.
- Handle slides and sharp tools (dissecting needles, tweezers) with care.
- Ensure proper ventilation when operating for extended periods.

PACKAGE CONTENTS

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

- Bresser USB Digital Microscope
- Accessory box with prepared permanent slides, object slides, and cover slips
- 2 Dissecting Needles
- 1 Special Tweezers
- PC Software (Photomizer SE)
- USB 2.0 Cable
- Instruction Manual

SETUP

1. Unpacking and Assembly

Carefully remove all components from the packaging. Place the microscope base on a stable, flat surface. Attach the microscope body to the base if it is not already assembled. Ensure all connections are secure.





Figure 1: The Bresser USB Digital Microscope fully assembled, showing its main components including the base, body, and stage with a slide.

2. Software Installation

Insert the provided software CD into your computer's CD/DVD drive. Follow the on-screen instructions to install the "CamApp" and "Photomizer SE" software. Ensure your system meets the minimum requirements: Windows XP, Windows Vista, or Windows 7. For Windows 10, drivers may install automatically, but manual installation from the CD's executable file might be necessary if issues arise.

Note: The "CamApp" software may be entirely in English. The "CamApp" and "Photomizer SE" software might conflict; restarting your computer may be required when switching between them.

3. Connecting to Computer

Connect the microscope to your computer using the supplied USB 2.0 cable. Plug one end into the microscope's USB port and the other into an available USB port on your PC or laptop. The computer should recognize the device automatically after software installation.

OPERATING INSTRUCTIONS

1. Placing a Specimen

Place your prepared slide or object on the microscope stage. Use the stage clips to hold the slide securely in place if necessary.



Figure 2: The microscope stage, showing how a slide is placed for observation.

2. Adjusting Magnification

The Bresser USB Digital Microscope offers 20x, 80x, and 350x magnification levels. These are typically adjusted by moving the microscope head up or down relative to the stage, or by using the focus wheel which also changes the effective magnification range. The software will display the magnified image on your computer screen.

3. Focusing the Image

Use the large focus wheels on the side of the microscope to adjust the focus. Rotate them slowly until the image on your computer screen is clear and sharp. Fine-tuning may require a delicate touch due to the internal gear transmission.





Figure 3: Detail of the microscope's focus wheel, used for adjusting image clarity.

4. Adjusting Illumination

The microscope features selectable top (incident) and transmitted (bottom) light functions with brightness control. Use the controls on the microscope body to select the appropriate lighting for your specimen and adjust the brightness for optimal viewing. Illumination can also be completely switched off.





Figure 4: The microscope showing its adjustable head and the area where light passes through or illuminates the specimen.

5. Capturing Images and Videos

Once the image is focused, you can capture still images or record videos using the "CamApp" software. There is also a capture button directly on the microscope for convenience. The captured images will have an interpolated resolution of 1280x1024 pixels.



Figure 5: Two children observing a specimen using the Bresser USB Digital Microscope connected to a computer, demonstrating typical usage.

MAINTENANCE

- **Cleaning:** Use a soft, lint-free cloth to clean the microscope's exterior. For optical surfaces, use a specialized lens cleaning solution and cloth. Avoid abrasive cleaners or solvents.
- **Storage:** When not in use, store the microscope in a clean, dry, and dust-free environment. Use the provided dust cover if available.
- **Handling:** Always handle the microscope with care. Avoid dropping or subjecting it to strong impacts.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No image on screen / Device not recognized	USB cable not connected properly; Software not installed; Driver issue.	Ensure USB cable is securely connected. Reinstall software from CD. Check device manager for driver status; try updating or reinstalling drivers.
Image is blurry or out of focus	Focus not adjusted correctly; Incorrect magnification setting.	Adjust the focus wheels slowly. Ensure the microscope head is at an appropriate distance for the desired magnification.

Problem	Possible Cause	Solution
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Poor image quality at high magnification (350x)	Inherent limitation of the optics; Lighting not optimized.	Adjust lighting (top/transmitted light, brightness). Note that image quality may be less sharp and have lower contrast at the highest magnification levels.
Software (CamApp/Photomizer SE) issues	Software conflict; Compatibility issues with OS.	Ensure only one software is running at a time. Restart computer if switching between applications. Check for updated drivers or software online if available for newer operating systems (e.g., Windows 10).
No illumination	Light source switched off; Brightness set to minimum.	Check the illumination controls on the microscope body and adjust brightness.

SPECIFICATIONS

Brand	Bresser
Model Number	9619800
Magnification	20x, 80x, 350x
Resolution (Interpolated)	1280x1024 pixels
Light Source Type	LED (Selectable Top and Transmitted Light)
Connectivity	USB 2.0
System Requirements	Windows XP, Windows Vista, Windows 7
Material	PC
Color	Silver
Product Dimensions	27 x 15 x 15 cm
Item Weight	600 g

WARRANTY AND SUPPORT

Please note that this product is sold as a private sale, and therefore, **no returns or warranty are offered**. This information is based on the original product description.

For technical inquiries or assistance with software installation, please refer to the official Bresser support channels or website, if available, for general product information. No specific support contact information is provided with this manual.

OFFICIAL PRODUCT VIDEOS

No official product videos from the seller are available for this model at this time.



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