

BRESSER Analyth LCD Microscope



BRESSER Analyth LCD Microscope Instruction Manual

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BRESSER Analyth LCD Microscope



Specifications

- Product Name: Analyth LCD
- Article Numbers: 5809100
- Manual Version: 0524

Product Information

The Analyth LCD is a versatile microscope with a movable LCD display, suitable for various microscopy applications. It features both transmitted and incident lighting, as well as adjustable brightness levels for clear observation.

FAQ

Q: **How** do I change the lighting mode on the Analyth LCD microscope?

A: To switch between transmitted and incident lighting modes, use the designated buttons on the microscope labeled for each lighting type.

Imprint

- Bresser GmbH
- Gutenbergstr. 2
- 46414 Rhede

Germany

www.bresser.de

For any warranty claims or service inquiries, please refer to the information on “Warranty” and “Service” in this documentation. We ask for your understanding that unsolicited returns cannot be processed. Errors and technical changes excepted.

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The designations and brand names of the respective companies used in this documentation are generally protected by trade, trademark and/or patent law in Germany, the European Union and/or other countries.

Validity note

This documentation is valid for the products with the following article numbers:

5809100

Manual version: 0524

Manual designation:

Manual_5809100_Analyth-LCD_de-en_BRESSER_v052024a

Always provide information when requesting service.

About this Instruction Manual

NOTICE

These operating instructions are to be considered a component of the device.

Read the safety instructions and the instruction manual carefully before using this device.

Keep these instruction manual in a safe place for future reference. If the device is sold or passed on, the instruction manual must be passed on to any subsequent owner/user of the product.

Intended use

- This device is not intended for use by persons (including children) with impaired physical, sensory or mental abilities, or for lack of experience and/or knowledge, unless they are supervised by or have received instructions from a person responsible for their safety on how to use this device.
- This device is for personal use only.
- It was developed for an magnified representation of nature observations.
- The device is intended only for indoor use.

General safety instructions

DANGER

Risk of an electric shock!

This device contains electronic parts that are powered by a power source (AC adapter and/or batteries).

Improper use of this product may result in electric shock. Electric shock can cause serious or fatal injuries. It is therefore imperative that you observe the following safety information.

- Disconnect the power supply by pulling the mains plug when the appliance is not in use, in case of a longer interruption of operation and before any maintenance and cleaning work.
- Place your device so that it can be disconnected from the power supply at any time. The power outlet should always be near your appliance and should be easily accessible, as the plug of the power cord serves as a disconnect device from the mains supply.
- To disconnect the unit from the mains, always pull the mains plug and never pull the cable!
- Check this device, cables and connections for damage before use.
- Never attempt to operate a damaged device, or a device with damaged electrical parts! Damaged parts must be replaced immediately by an authorized service agent.

- Operate the device only in a completely dry environment and do not touch the device with wet or damp body parts.

DANGER

Danger of suffocation!

- Improper use of this product may result in suffocation, especially for children. It is therefore imperative that you observe the following safety information.
- Keep packaging materials (plastic bags, rubber bands, etc.) away from children! There is a danger of choking!
- This product contains small parts that can be swallowed by children! Choking hazard!
- If small parts are swallowed, consult a doctor immediately!

DANGER

Explosion hazard!

- Improper use of this product may result in fire. It is essential that you observe the following safety information in order to avoid fires.
- Do not expose the device to high temperatures. Use only the supplied AC adapter. Do not short-circuit the device or batteries or dispose of in fire! Excessive heat and improper handling can
- cause short circuits, fires and even explosions!

CAUTION

Risk of body injury!

- This device contains components and/or accessories that can cause minor or serious body injury if used improperly. It is therefore essential that you observe the following safety information in order to prevent body injuries.
- Sharp-edged and pointed tools are often used for working with this device. Therefore, keep this device and all accessories and tools in a place inaccessible to children. Danger of body injury!
- Chemicals and liquids do not belong in children's hands! Don't drink! Clean hands thoroughly under running water after use. In case of accidental contact with eyes or mouth, rinse with water. In case of complaints, consult a doctor immediately and show the substances.

CAUTION

Fire hazard!

Improper use of this product may result in fire. It is essential that you observe the following safety information in order to avoid fires.

- Never cover the ventilation slots or cooling fins of the device during operation or until it has cooled down completely!

NOTICE

Danger of material damage!

Improper handling may result in damage to the unit and/or accessories. Therefore, use the device only in accordance with the following safety information.

- Do not disassemble the device! In the event of a defect, please contact your dealer. They will contact the Service Center and can arrange the return of this device for repair if necessary.
- Do not expose the device to high temperatures and protect it from water and high humidity.
- Do not subject the device to excessive vibrations.
- Only use accessories and spare parts for this device that comply with the technical specifications.

Choice of location

Choose a suitable location before installation and commissioning. Place the device on a stable, level and vibration-free surface.

Parts overview and scope of delivery

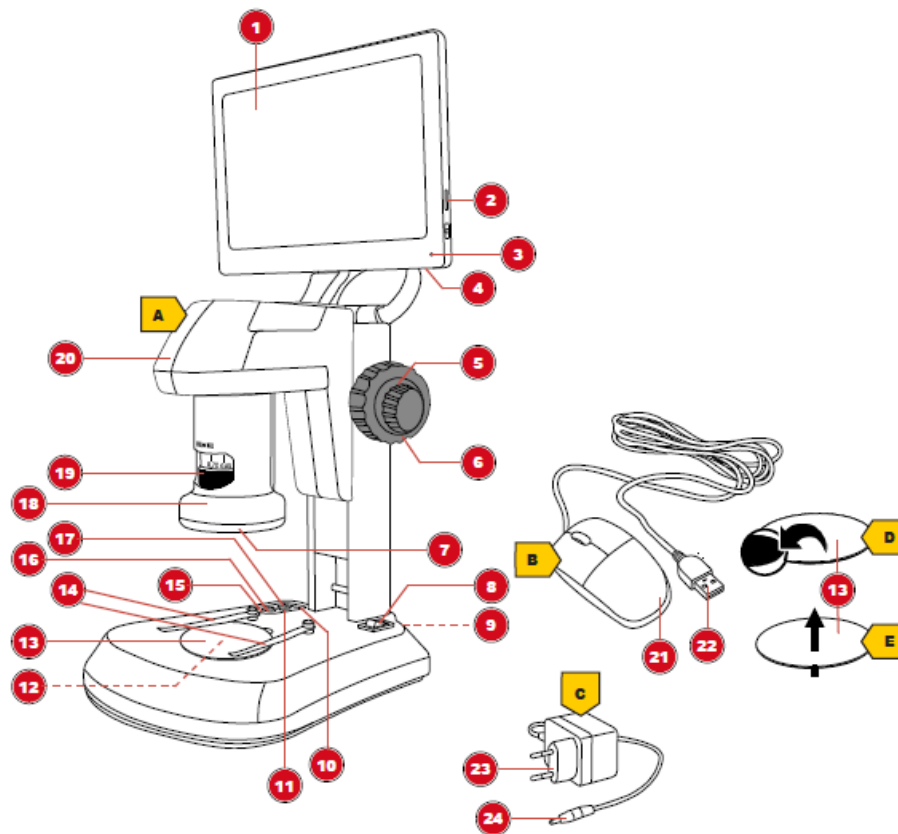


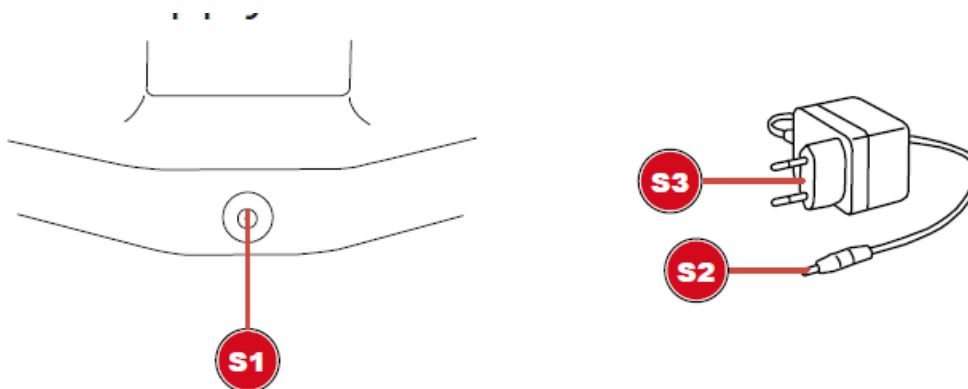
Illustration 1: All parts of the microscope

1	LCD display (movable)	2	Memory card slot (MicroSD card*)
3	Function light (display)	4	USB-A port (mouse*)
5	Coarse focus	6	Fine focus
7	Incident light illumination	8	On/Off switch
9	DC connection socket (voltage)	10	Function lights (incident light brightness)
11	Function lights (transmitted light brightness)	12	Translucent light illumination
13	Object plate, exchangeable	14	Object clamps
15	Function light (voltage)	16	“Tra” button (translucent light illumination)
17	“Inc” button (incident light illumination)	18	Objective
19	Zoom ring	20	Microscope head
21	Mouse	22	USB-A plug
23	Power plug	24	DC hollow plug

Microscope (A), mouse (B), power adapter (C), object plate (black/white) (D), object plate (semi-transparent) (E)
For object measurements, the use of a microscope slide with micrometer scale is recommended.

*not included in the scope of delivery

Power supply



S1	Connection socket for DC barrel connector	S2	DC barrel connector
S3	Mains plug		

1. Insert the DC barrel connector of the mains adapter into the DC connection socket of the device.
2. Insert the mains plug of the mains adapter into the socket.

The function light for the power supply is on. The device is ready for use.

Turning on/off the device

1. Move On/Off switch to position 'I' to turn on the device.
2. Move On/Off switch to 'O' position to turn off the device.

Adjusting the zoom

The microscope optics have a zoom range from 0.7x to 4.5x.

The zoom range can be changed by turning the zoom ring.

NOTICE! When changing the zoom range, the focus may also need to be adjusted. (see also “Focusing the object”)

Focusing the object

The microscope has coarse and fine focusing. These can be used for object focusing as described below.

1. Make the desired zoom setting.
2. Focus on the observation object using coarse focusing.
3. If necessary, adjust the object sharpness individually by fine focusing, especially when changing the zoom setting and/or the height of the microscope head.

Working with the onscreen menu

1. Connect the supplied mouse to the USB-A port of the microscope.
2. Move the On/Off switch to the “I” position.
3. Position the object on the object plate and set the appropriate illumination (see “Setting the illumination”)
4. An image of the object is shown on the LCD display and the mouse pointer is visible.
5. Move the mouse pointer to the left or bottom edge of the display to show the desired display menu.

Left display menu



Description of the icons (from left to right):

- Image capturing: clicking on this button will take a photo. The following appears briefly: “Image capture successful”
- Video: Clicking on this button will start recording a video. The following appears briefly: “Recording in progress...”. The recording time starts to run at the top right. Click on the button again to stop the video. The following message appears briefly: “Video successful”.
- Preview: You can access captured photos and videos in the preview. Double-click to display the desired image. Use the “back” button to return to the live image. You can scroll through and delete photos within the preview.
- Measurement: In order to take measurements with the microscope, a reference is required to calibrate the software.
- We recommend our optionally available microscope slide with micrometer scale (item no. 5916720) for this purpose.
- Detailed information on measurement can be found in the further instructions.

- Setting: The camera works in automatic mode by default. Only experienced users are recommended to change the settings.
- Menu language: German, English, French, Chinese.
- Date and time: The clock continues to run as long as the power supply is established.

Bottom display menu



- Description of the icons (from left to right):
- Zoom in: Click the icon several times to zoom in up to 10 times (digital zoom).
- Zoom out: Click the icon several times to decrease the magnification step by step. Mirroring: Horizontal image mirroring
- Rotate: Image rotation by 180 degrees
- Black/white: Image display in grayscale
- HDR: Function for improved image reproduction at different brightness ranges Freeze frame: Stops the live image. No record is created. Click again to start.
- Grid: Display of a grid or scaling bar as a cross. More information under “Grid settings”
- Color: Adjusting the display of lines and labels for the measurement function Comparison: A previously taken photo is placed next to the live image

Save recordings

1. Put the microscope into operation.
2. Insert a suitable memory card* into the memory card slot.
3. CAUTION! The contacts of the memory card must face to the back of the display. Memory cards that are inserted incorrectly can cause electrical damage. The recordings stored on the memory card can be irreversibly deleted and the device may be damaged.
4. Image captures or videos can be saved to the memory card via the display menu (see “Working with the onscreen menu”).

*MicroSD card up to maximum 32 GB (not included)

Grid settings

1. Put the microscope into operation.
2. Set the desired grid setting in the onscreen menu:
Activating the scale bar displays a cross with a grid. This shows the scale of the set calibration value.
By activating “activate all” a grid pattern is evenly distributed on the screen.
3. With “Reset grid” the original grid is set again.
4. In the “Grid settings” all lines can be adjusted.
5. Click “Save” to confirm the settings.

6. Click on "Back" to exit the menu.

Important notes

Magnification: The magnification values indicated on the objective refer to the objective magnification. The magnification is displayed on the screen as follows:

0.7x – 8.1x, 1x – 11.5x, 2x – 23x, 4.5x – 51.8x

These values may vary slightly depending on the design. The exact magnification is determined as follows:

1. Place a measuring scale* on the microscope and bring it into focus

Measure the scale on the screen.

2. Divide the measured value by the real value.

If saved images are transferred to a PC, for example, the magnification also changes due to the larger screen

Measurements: If measurements are made with the microscope, make sure that always the same values are set. The magnification markings help with this. The object height does not matter, since the working distance does not change at the corresponding magnification. For object measurements, the use of an optionally available microscope slide with a measuring scale* is recommended.

CE declaration of conformity

A "Declaration of conformity" in accordance with the applicable directives and corresponding standards has been prepared by Bresser GmbH. The full text of the CE declaration of conformity is available at the following Internet address: www.bresser.de/download/5809100/CE/5809100_CE.pdf

Disposal



Dispose of the packaging materials according to its type. Information on proper disposal can be obtained from the municipal waste disposal service provider or environmental agency.



Do not dispose of electronic devices in the household garbage!

According to the European Directive 2012/19/EU on Waste Electrical and Electronic Equipment and its transposition into national law, used electrical equipment must be collected separately and recycled in an environmentally sound manner.

Warranty

The regular warranty period is 2 years and starts on the day of purchase. To benefit from an extended voluntary warranty period as indicated on the gift box, registration on our website is required.


You can consult the full guarantee terms as well as information on extending the guarantee period and details of our services at www.bresser.de/warranty_terms.

Please contact the service centre first for any questions regarding the product or claims, preferably by e-mail. E-Mail: service@bresseruk.com Telephone*: +44 1342 837 098 BRESSER UK Ltd. Suite 3G, Eden House Enterprise Way Edenbridge, Kent TN8 6HF Great Britain*Number charged at local rates in the UK (the amount you will be charged per phone call will depend on the tariff of your phone provider); calls from abroad will involve higher costs.

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Bresser UK Ltd.

Documents / Resources

 <p>The image shows a Bresser Analyth LCD Microscope. It features a black base with a silver-colored frame. A large LCD screen is mounted on a flexible arm above the microscope body. The Bresser logo is visible in the top left corner of the image.</p>	<p>BRESSER Analyth LCD Microscope [pdf] Instruction Manual Analyth LCD Microscope, Analyth LCD, Microscope</p>
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References

- [disponibles.IT](#)
- [Bresser | Startseite | Expand Your Horizon mit BRESSER](#)
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