

Introducing the 360 Super HD 60X/120X/200X SMART MICROSCOPE

Welcome to the new era of HD (High Definition) technology! We are proud to present our new collection of microscopes – with absolutely good image quality and much easier application!

This microscope set will be the starting point to your many hours of fruition as a hobby or broader your opportunity to a wonderful world of science. Enjoy the new micro-observation experience now!

Happy Experimenting!!!

Attention!

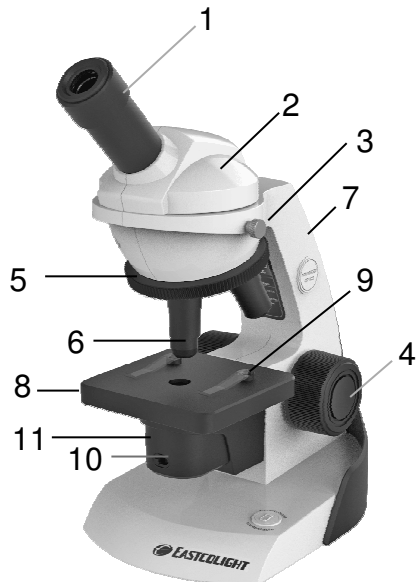
The following information should be read carefully in order to overcome confusions.

This microscope set is appropriate for children over 8 years old. Supervision of adult is required as this set comprises of sharp parts

Before using the microscope, carefully read the instructions, follow the guide, and have them for direction in case you need further helpful hints.

Always, reserve the microscope set in a place where young infant is out of reach.

Components of Microscope



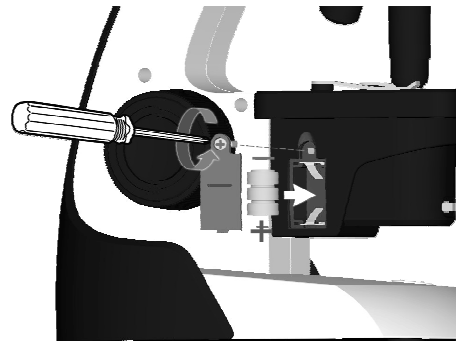
1. Eyepiece
2. Eyepiece base
3. Eyepiece position lock
4. Focusing knob
5. Magnification revolving turret
6. Objective lens
7. Arm
8. Stage
9. Clip
10. Power switch
11. Battery compartment

Helpful Hints





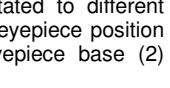
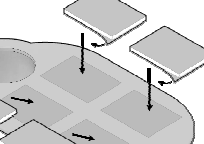
- The essential component of the microscope is the lens. Consequently, adequate care must be exercised when dealing with the lens.
- Microscope should be stored in a moisture free place. Because moisture build up on the light encourages a reduction in light concentration.
- After it is utilized, protect the microscope from dust by covering the microscope or placing it back into the box.
- If the lens gets dusty or dirty, it is suggested to clear off the lens surface with a soft cotton cloth or tissue. Do not rub the lens with a finger or unclean cloth.
- If a microscope is not put to use for a long period of time, discharge the light source batteries.

Battery Installation

Replace the batteries when the light is dim. Use three "AG13"/"LR44" size 1.5V batteries. You will need to use a screwdriver to open the battery compartment. (Batteries included)

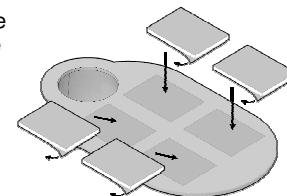


Procedures

1. Put the prepared slide on the stage, and fasten it in place with the clips. 
2. Next, choose which magnification strength you desire. Remember, the greater the length of the objective lens, the bigger the magnification. In general, inspection is usually made at a low setting. 
3. To change the magnification strength, turn the revolving turret until you hear a click. 
4. Slide the Power switch (10) to ☀ to turn on the illuminator. 
5. Using the focusing knob, lower the objective lens as close as possible to the prepared slide. Next, looking through the eyepiece, turn the knob anti-clockwise slowly until the image is clear. 
6. The eyepiece can be rotated to different position by loosening the eyepiece position lock (3) and turn the eyepiece base (2) directly. 

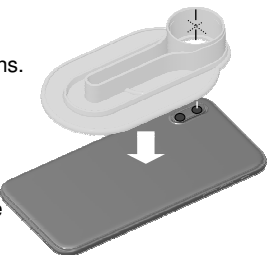
Setup the Smartphone Adapter

Remove the protective film on one side of the four adhesive tapes included. Carefully attach them onto the adapter as shown.

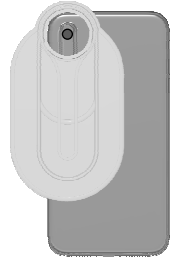



Remove top protective film afterwards.


Using the smartphone adaptor

1. Align the centre of the adaptor tube to the smartphone camera lens. Carefully put smartphone on the adaptor. Apply some pressure to secure the position. If there is any misalignment, separate both and retry*. 

*Note: Dirt or fingerprints will weaken the adhesive strength. In such case, wipe it off with a wet tissue or wipe with a finger wet with water and let it dry naturally. The adhesive surface should not be wiped with tissue paper. Fiber adheres and weaken the adhesive strength.



2. Attach the adaptor-smartphone assembly to the microscope eyepiece as shown. The adaptor should be fully inserted into the eyepiece for best results. 

3. With the camera app opened, the image circle should be at the centre of the screen. Adjust the focus knob until the image is clear. 

How to Make a Prepared Slide

(Warning: Supervision of adult is required)

Please note that if the given specimen is not thin and crystalline, it cannot be inspected by the microscope. This is due to the fact that light from the reflector or light source does not advance through.

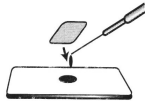
- Fiber of wool, pollen, or salt will be simple to see, and will not need a cover glass.
- Crystal-clear specimen are stain first with a drop or two drops of methylene blue. Eosin or other dyeing solutions are available on the market.

Also note these are dyeing solutions, and thus could induce staining of clothing, fabrics, and carpets. Extreme care should be handled when dealing with these solutions.

1. Temporary Mount

- Wipe the slide and cover glass clean
- Thin the sample with a razor blade. (Be extremely careful)
- Then pick it up with tweezers, and put it on the centre part of the glass slide.
- Next, add one drop of water on the sample with a dissecting needle. If the sample is clear, add one drop of methylene blue or eosin solutions. (Be extremely careful)
- Gently put the cover glass on it, take care not to let any air bubbles in it.
- Remove any excess water or dyeing solutions with blotting paper.
- Now, it is ready for observation.

Remember to wash your hands immediately after doing the preparations and dispose the dyeing solutions down the drain not into a sink.



2. Permanent Mount

- Wipe the slide and cover glass clean.
- Continue as above but before covering the slide with the cover glass, add few drops of gum media (or Canada balsam) solution or transparent adhesive glue with a dissecting needle to the slide.

- Put down on the cover glass with tweezers or fix it in place, and leave it to dry for about a day.

Specifications:

Magnifications: 60X, 120X, 200X
Power supply: 3 x 1.5V AG13/LR44
Batteries

IMPORTANT: Keep these instructions. DO NOT DISCARD.



If any time in the future you should need to dispose of this product please note that Waste Electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice. (Waste Electrical and Electronic Equipment Directive)

1. Only adults should install and replace batteries.
2. Alkaline batteries are recommended.
3. Do not use rechargeable batteries.
4. Non-rechargeable batteries are not to be recharged.
5. If the device has not been used for a long time, remove the batteries.
6. Rechargeable batteries are to be removed from the toy before being charged.
7. Rechargeable batteries are only to be charged under adult supervision.
8. Do not mix old and new batteries.
9. Do not mix alkaline, standard (carbon zinc) or rechargeable (nickel cadmium) batteries.
10. Exhausted batteries are to be removed from the toy.
11. The supply terminals are not to be short-circuited.
12. Only batteries of the same or equivalent type as recommended are to be used.
13. Batteries are to be inserted with the correct polarity.
14. Do not dispose of batteries in fire, batteries may explode or leak.
15. Batteries may explode or leak if misused.



360 Super HD 60X/120X/200X SMART MICROSCOPE INSTRUCTION MANUAL

WARNING! Not Suitable for Children Under 36 Months Due to Small Parts. Choking Hazard. Only for Use by Children Over 8 Years Old. To be Used under the Direct Supervision of an Adult. This toy contains Sharp Parts and Functional Sharp Edge.

CAUTION! Read the instructions before use, follow them and keep them for reference. Keep small children and animals away from experiments. Store the microscope set out of reach of small children.

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