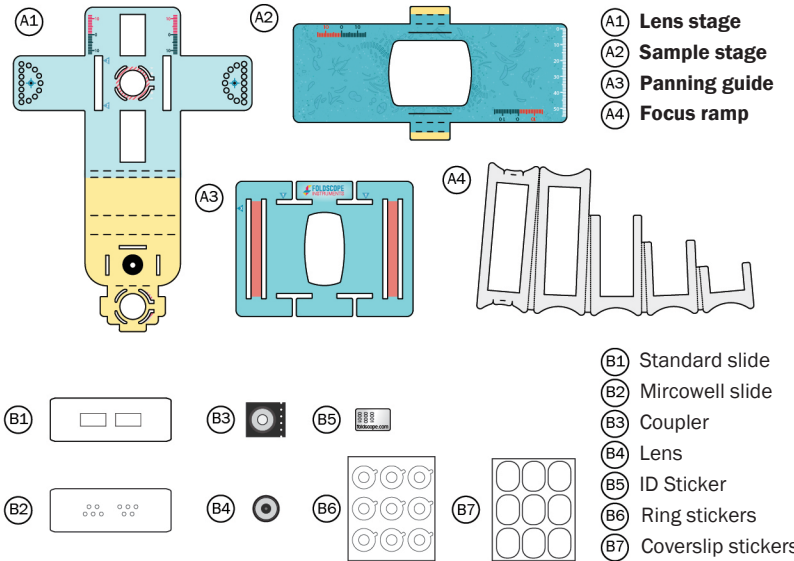


Get ready to join a global community of Microcosmos explorers and discover extraordinary things in ordinary places!

1 PARTS FOR ASSEMBLY



2 ACCESSORIES



IMPORTANT SAFETY WARNINGS, DISCLAIMERS AND WARRANTY: READ ALL OF THE ASSEMBLY AND USE INSTRUCTIONS, WARNINGS, AND DISCLAIMERS, BEFORE YOU BEGIN TO ASSEMBLE OR USE THIS PRODUCT.



WARNINGS

- Not for use by children under 8 years old;
- Adult supervision is required at all times for children assembling and using this product;
- This kit contains parts with functional sharp edges that could cut or seriously injure you, such as scissors. Use caution when handling;
- This product contains alkaline button cells of size AG10 / LR1130. Do not put in your mouth or swallow. A swallowed

Button/Coin Celled Battery can cause internal chemical burns in as little as two hours and lead to death. Dispose of used batteries immediately. Keep new and used batteries away from children. If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical condition;

- Failure to immediately dispose of used batteries could lead to a serious injury, property damage or death;
- Do not mix old and new batteries;
- Do not mix alkaline, standard (carbon-zinc), or rechargeable (nickel-cadmium) batteries;

- This product contains choking hazards, including small parts and small magnets. Do not put in your mouth or swallow. Small magnets can stick together across intestines causing serious infections and death. Seek immediate attention if magnets are swallowed or inhaled;
- Keep batteries and magnets away from animals to prevent serious injury or death;
- This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm;

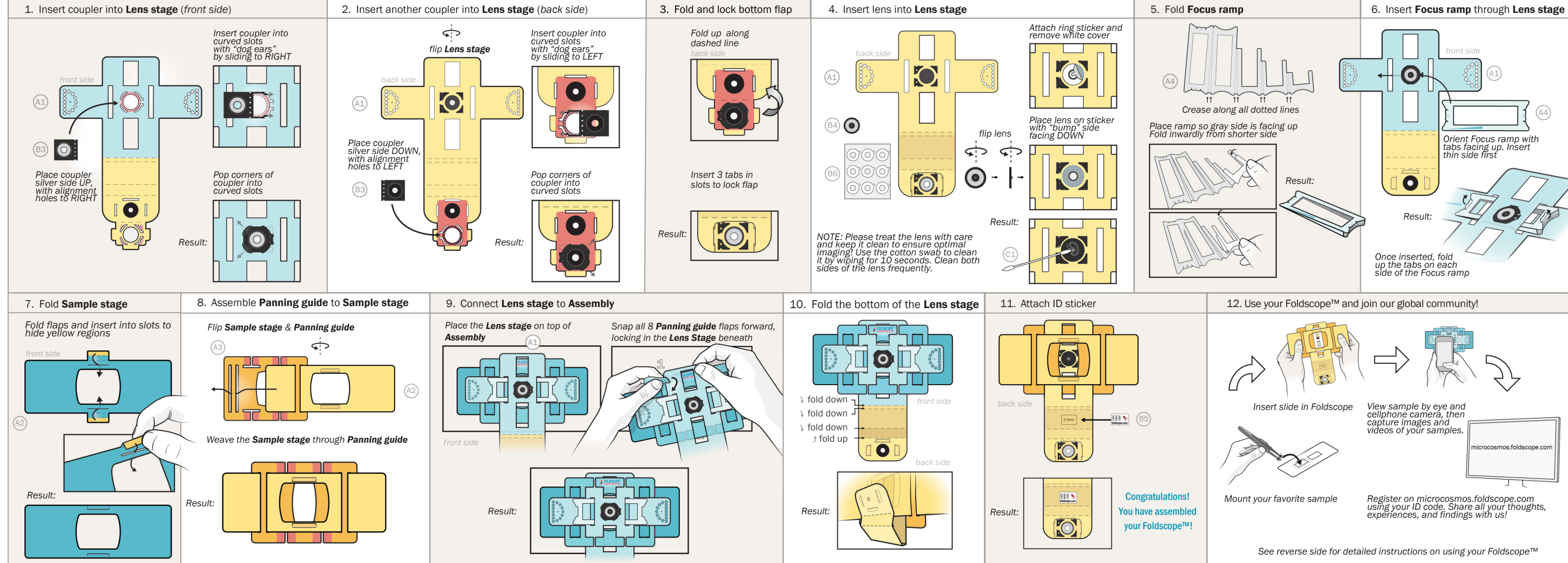
- Do not look into the sun or a bright light with this product. For example, do not look at the included LED magnifier light source when adjusted to the bright setting. Doing so could cause a serious eye injury and disorientation;
- The product's slides are made of glass and could cut or seriously injure you. Use caution when handling;
- Do not place your eyeball on the microscope; doing so could cause an injury;
- This product is not designed or intended to be used for medical purposes.

DISCLAIMERS

Foldscope makes no representations or warranties, express or implied including the implied warranty of merchantability and/or fitness for a particular purpose, regarding the product; the product is sold "AS IS." TO THE EXTENT PERMITTED BY APPLICABLE LAW, FOLDSCOPE ASSUMES NO LIABILITY FOR ANY INJURY, DEATH OR THIRD PARTY CLAIM AS A RESULT OF USING THIS PRODUCT. FOLDSCOPE IS NOT LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ASSEMBLY OR THE USE OF THE PRODUCT.



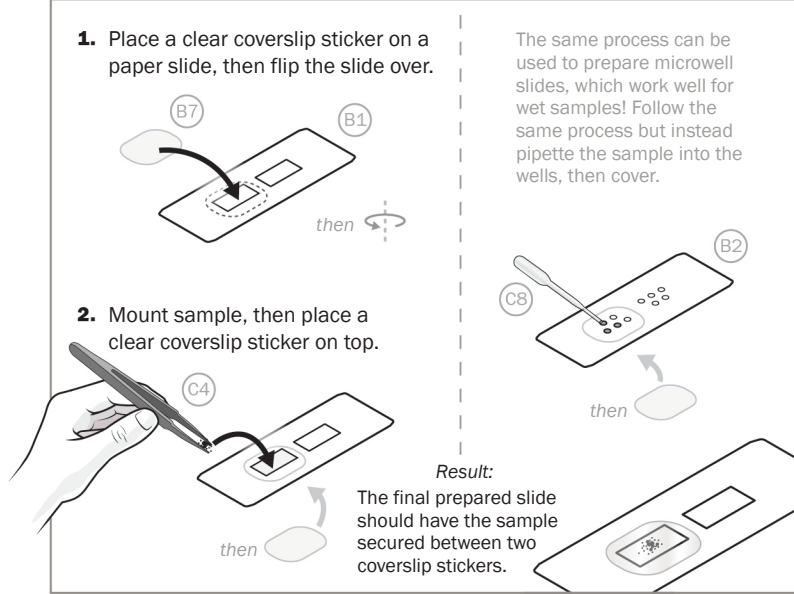
3 ASSEMBLY INSTRUCTIONS



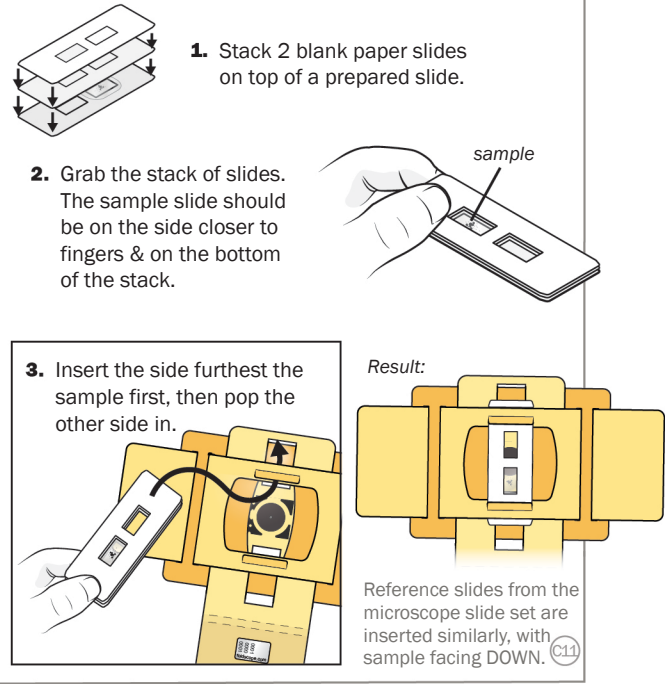
4 SLIDE MOUNTING

HOW TO PREPARE A SLIDE

Slides are used to hold objects or “samples” for examination. The sample is secured or “mounted,” and then the slide is inserted into the Foldscope™ for viewing.



INSERTING THE SLIDE

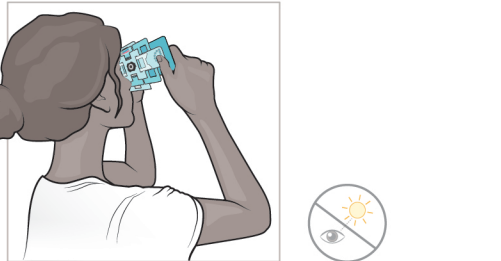


5 VIEWING

DIRECT VIEW

To view directly, bring the lens to the eye, and hold the Foldscope™ up to a light source, such as daylight or artificial lighting.

Remember:
The blue side of the Foldscope™ should be brought toward the face!



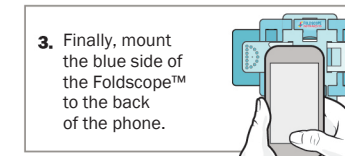
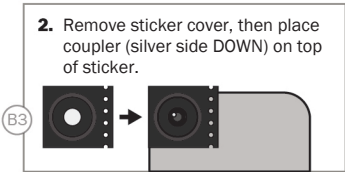
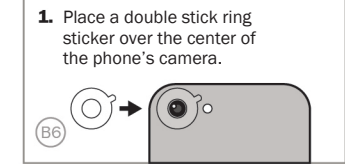
See “Projection” section for details of how to mount the LED magnifier for use as a light source.

WARNING
Do not look into the sun or a bright light with this product. For example, do not look at the included LED magnifier light source when adjusted to the bright setting. Doing so could cause a serious eye injury and disorientation.

PHONE VIEW

Samples can also be viewed through a phone, enabling the user to take photos & videos of their observations.

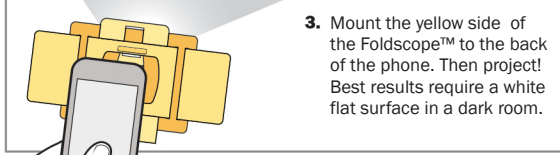
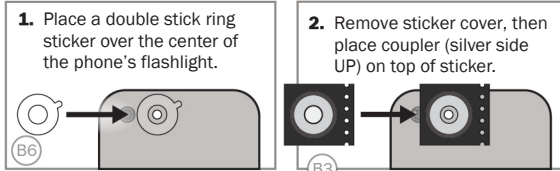
To assemble:



PROJECTION

Projection is great for group viewing and sketching.

To assemble with a phone:



The Foldscope™ LED magnifier can also be used as a light source for projection instead of a phone!



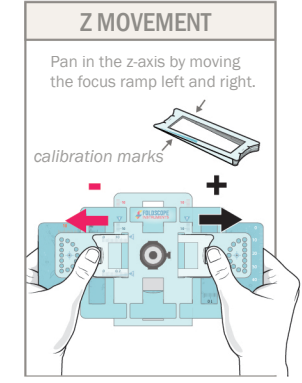
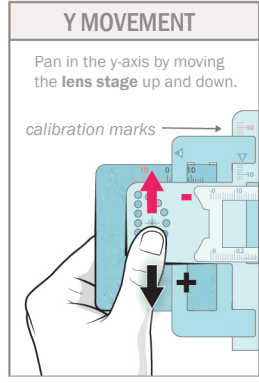
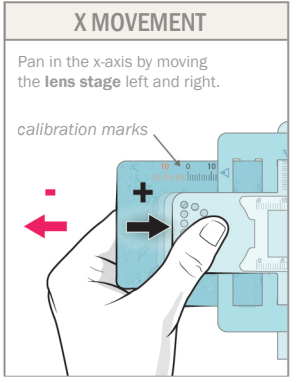
6 PANNING AND FOCUSING

Hold the Foldscope™ by placing your thumbs on the half moons.

Record the location of your special finds by making a mark through the reference location hole.

Read x, y, and z positions from the calibration marks. Note, z-height increment changes after 0.2mm, from 0.02mm to 0.06mm.

Pan and focus as shown below.



7 GUIDED EXPERIMENT: FIND TARDI AND FRIENDS!

1. Collect sample

Option 1:
Collect dry or moist sample in sample tube or ziplock bags

Option 2:
Collect wet sample in sample tube

2. Prepare sample

Option 1: Hydrate dry or moist sample

Option 2: Desiccate moist sample

Option 3: Filter liquid sample

View samples in your Foldscope.

Capture images and videos.

Post your amazing and your everyday findings to our community website and get feedback from fellow Foldscoopers!

8 TIPS AND TRICKS

- Please register at <http://microcosmos.foldscope.com> and explore for thousands of examples, tricks, tips and usage examples from the Foldscope community around the world. Share your questions if you want feedback/help.
- See our video tutorials at: microcosmos.foldscope.com/tutorial
- If this is your first time doing microscopy, you can start with dry samples that do not move!! This way you can perfect your skills, and move to living organisms in aquatic environment as next steps.
- If you are using a cellphone camera to record images - you can use digital zoom to make sure you are in focus.
- At the end of a hard day of explorations, clean your supplies/instruments with a dry cloth and put them back. This way you will be able to keep your instruments ready for your next exploration.
- If your foldscope lens gets wet with water, simply use a dry cloth to wipe it off. Do not use organic solvents since that can damage the lens aperture.
- Clean your lens frequently for optimal imaging. If your lens get dusty, blow it off. If it gets wet, use the tip of the cotton swab absorb the excess liquid. To remove oil, rub gently with a cotton swab in a circular motion for 10 seconds from the center of dirt outwards.
- Take your foldscope outdoors; and try to experiment outside. You will find fascinating creatures cross your path; and you will be ready to explore with your little tool.
- It's valuable to realize - it's the questions that you ask that will make your Foldscope explorations fascinating. Ask questions about your surroundings and you never know where that will lead you. Keep good records in your notebook! Get out and explore, micronaut.

10. Please find your part number and Manufacturing Batch Code below. Please include these in your correspondence in case you need to contact us. Our contact info is:

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Keep in mind that we have a small team, so we may be a little slow to respond. Thanks for your understanding!

KIT TYPE	PART NO.
Deluxe Individual Kit (DIK)	FS901338647
Basic Classroom Kit (BCK)	FS901338641
Complete Classroom Kit (CCK)	FS901338643
Large Classroom Kit (LCK)	FS901338645
T-shirt	FS901338655

Manufacturing Batch Code