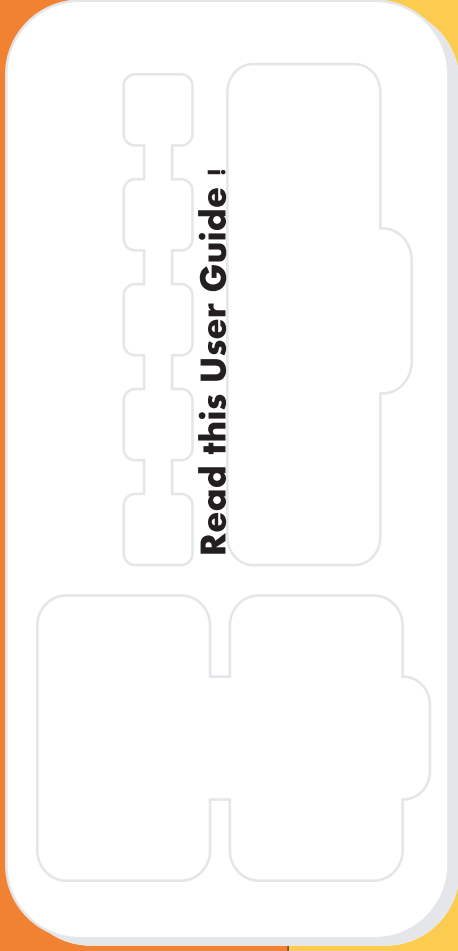




# L-eye Smartphone Microscope User Guide

- Read the user guide carefully. Use the product safely.
- Before using the product be sure to read the warnings and cautions listed on p.1.



①

Do not touch the lens surface or put things on it. Scratches that enter the surface of the lens will disturb the microscopic image. Also, the lens may be dislodged if a strong force is exerted on it. Keep the product in the case if no rubber pads are used. Any image, scratch, or contamination of the lens will compromise the image. Do not apply any strong force to the body of the product, the sampling plate or the case. There is a risk of damage or deformation. Disassembly or modification of this product may result in breakage or personal injury, and will invalidate the warranty. Placing objects on top of the product may cause damage or deformation. When not in use, keep the product in its case and away from direct sunlight, and store at room temperature. This product was not intended to be used for medical, nuclear, aerospace and military purposes that require the highest levels of safety and reliability. The company is not liable for any harm resulting from this product used for such purposes. This product should not be used for purposes other than what it is intended. The company is not liable for any accidents or disadvantages, due to incorrect use of the product.

## ⚠ Caution ⚠

Do not use, leave unattended or store this product in direct sunlight or under a strong light. This can damage mobile device cameras (smartphones, tablets etc.) and cause fires and burns. Do not use this product to look directly at strong light such as sunlight. Serious physical injury may result, such as blindness. Do not throw, drop or swing the product around. This may damage the product, the mobile device or the floor. Keep the product away from children to prevent injury or accidental ingestion. Small children should use the product only under the supervision of adults; the listed warnings and cautions should be observed and adequate safety measures taken at all times. Take adequate precautions when sampling objects near water, in high places and in forests. If the product is damaged, discontinue use immediately. Broken parts can cause injury. Do not swallow or inject the product. This can cause injury. The sampling plates of the product are made of organic glass and very thin metal. Any impacts may damage the plates or the operator's hands. Be careful when handling. Do not mount or place the product on mobile devices without the fixed rubber pads on the product. Take care not to scratch the glass of the mobile device screen and camera.

## ⚠ Warning ⚠

②

Production Sales  
**Terabase Inc.**  
 Higashiyama 5-1, Myodaiji,  
 Okazaki, Aichi, 444-8787 Japan

Contact: <http://leye.jp/en/contact>

(\*1)Varies according to the quality of the camera and LCD performance of your smartphone or tablet.

Product: **Leye (el-dt)**  
 Model: TB-140925LEN  
 Magnification: From 30x to 100X (\*1)  
 Magnification lens: φ3 ball lens (BK7)  
 Focal length: about 2.2 mm  
 Attachment mode: Magnetic  
 Product size: 20 mm×65 mm×3 mm  
 Case size: 58.5 mm×124 mm×6 mm

### Specification

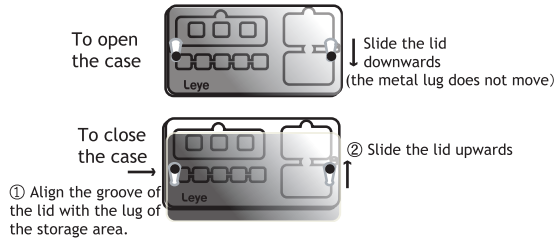
(Note)  
 The camera and the magnification and light sources of the devices used in these photographs are not identical.



### Leye photographs

# Operating Instructions

## Opening and closing the case



## Method of Observation

1. Remove L-eye from the case.
  2. Peel off the protective film from the fixed rubber pads.
  3. Place L-eye on a flat surface mobile device (such as a smartphone, tablet), and select the front camera shooting mode.
  4. Under the light source; While looking at the mobile device screen, place L-eye, and align ball lens with the camera position. Press the rubber pads to attach to the mobile device. ...P④-2
  5. Place the sample object on the transparent part of the sampling plate. ...P④-3
  6. Place the metal part of the sampling plate on top of the L-eye magnet. Steps 5. and 6. can be in either order. ...P④-3
- Using the righthand magnet for solid samples and the lefthand magnet for liquid samples makes focusing easier. ...P④-4
7. Observe, and take your picture(s).

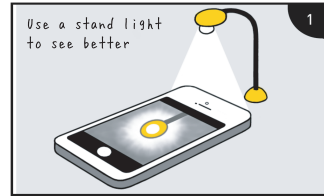
See the video for more details.

How to use L-eye  
(4 min)

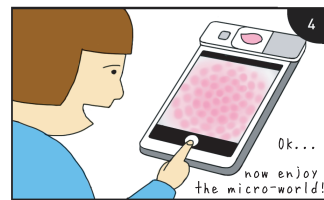
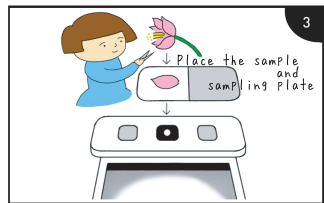
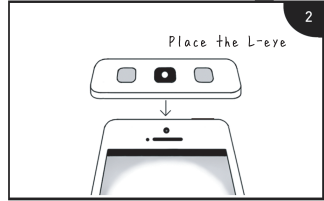


www.leye.jp

3



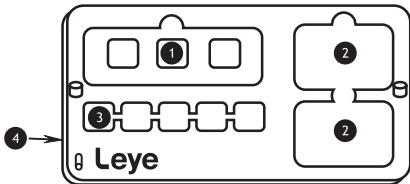
(\*) For how to use the light, see Support on the web



4

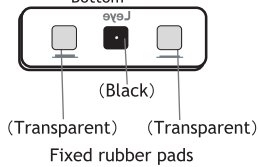
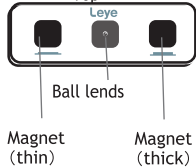
## Composition

### Case

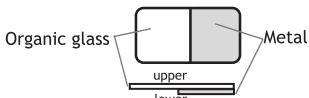


- ① L-eye (microscope) 1
- ② Sampling plate 2
- ③ Fixed rubber pads 2 transparent, 1 black
- ④ Case 1

### ① L-eye



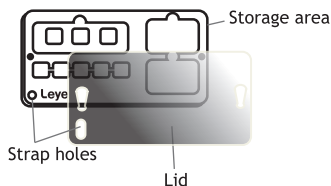
### ② Sampling plate



### ③ Fixed rubber pads



### ④ Case



5

## Trouble shooting

- ▶ I can't mount L-eye to the mobile device.
  - ◆ Fixed rubber pads are attached to the back surface of the L-eye. Peel off the protective film from the fixed rubber pads, and press them lightly to the mobile device. Change the position of the rubber pads should match the mobile device.
  - ◆ L-eye is not fixed to the mobile device, when the fixed rubber is dirty, peel it off, rinse with water, dry and fix it back on the L-eye. or replace with a spare rubber
  - ◆ If you are unsure about the mounting position while watching the screen of the mobile device, adjust the centre of the ball lens till it comes to the centre of the screen.
  - ◆ If there is a raised mounting around the mobile device's camera and the fixed rubber pads will not attach to the mobile devices, use the spare rubber pads in a stack.
- ▶ I can't see the image well?
  - ◆ Adjust the lighting. Try using a small LED light source.
  - ◆ If the ball lens or the sampling plate is dirty,
    - Wipe the sampling plate gently with a soft cloth or wash with water; dry off all water droplets.
    - Use a hair-dryer to blow off dust particles, wash and dry off water droplets.
    - If stubborn dust remains on the lens, wipe the surface of the L-eye gently with a cotton swabs or spectacles cleaning cloth.
- ▶ The image is not focused.
  - ◆ Try changing the distance between the sample and the lens.
    - The heights of the magnets on left and right differ so the placing of the sampling plate on left or right affects the focus.
    - Focus can be easily adjusted according to the type of sample: solid objects on the righthand side with the thick magnet, and liquid objects on the lefthand side with the thin magnet.
    - Find the right position for the sample by delicately pressing the sample onto the sampling plate or lifting it.
    - A solid sample, if not firmly attached, may result in a blurred image; if necessary, press the part of the sample you want to see firmly onto the plate.

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