BeaverLAB DDL-M1A Intelligent Microscope User Manual

BeaverLAB

Intelligent Microscope M1
DDL-M1A/B
User Manual
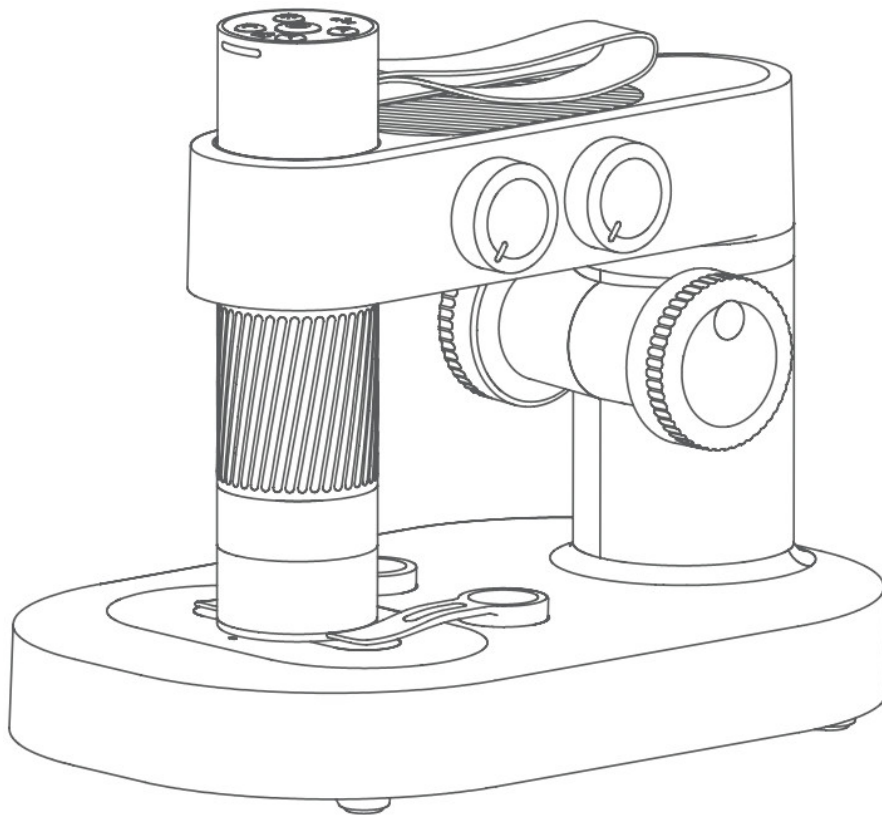
Contents

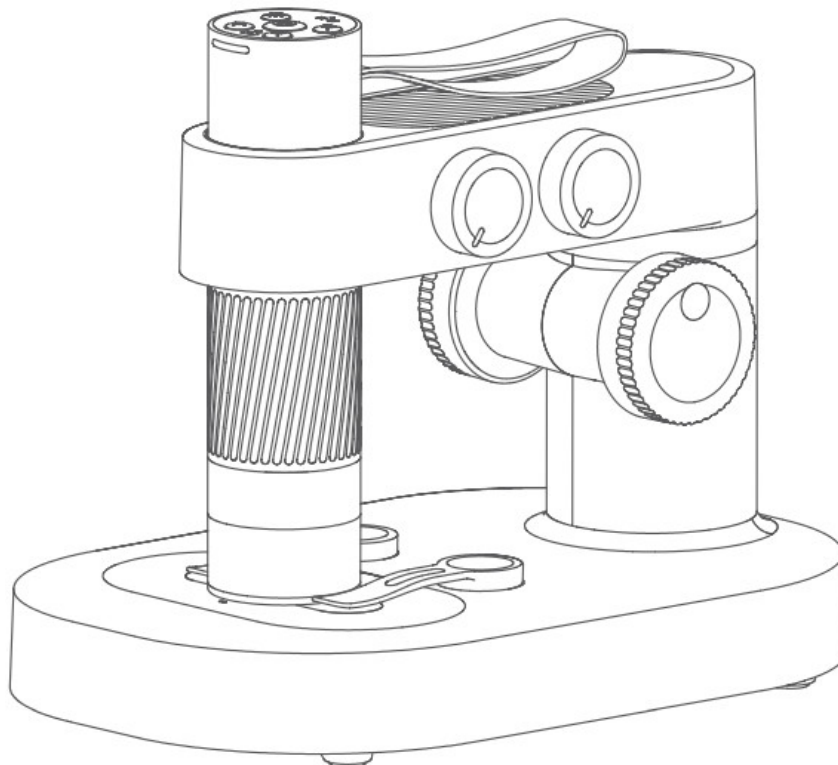**DDL-M1A Intelligent Microscope**

Please search and install"Beaver Point" in the App Store or Google Play before use.

Product overview

Thank you for buying intelligent microscope, hereinafter referred to as microscope. Please read this manual carefully before use and keep it properly. Do not use the microscope without knowing how to use it.


Notice for use

- Please read this manual carefully and use it correctly.
- Pay attention to the protection of the lens part, be sure to close the lens cap after use, to avoid dust or foreign matter.
- This microscope can be used by hand, or can be inserted into the base as a desktop. Pay attention to the

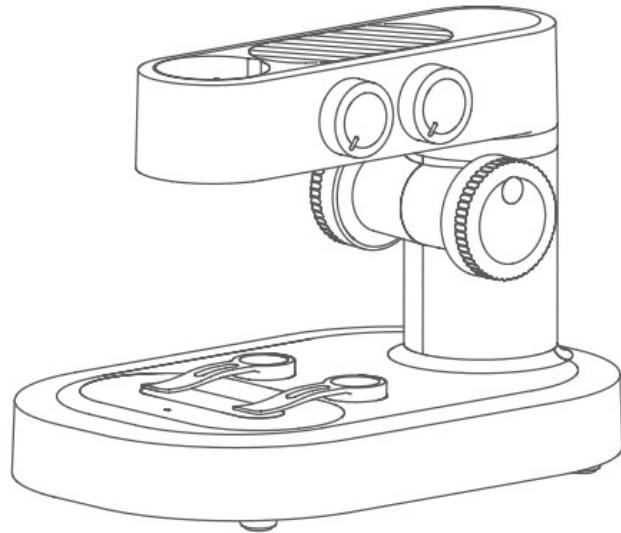strength of the insertion to avoid damaging the components.

- When placing the specimen, pay attention to the position, and place it as far as possible in the center of the lens right below. Avoid having a bad experience with blurred objects.

How to use the microscope
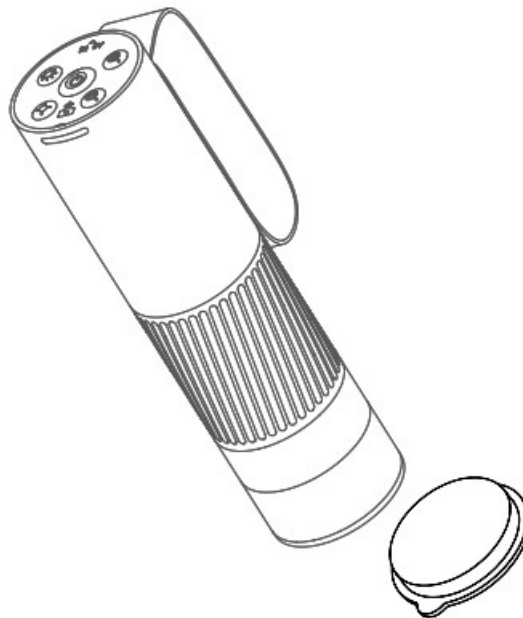
3.1 Microscope structure
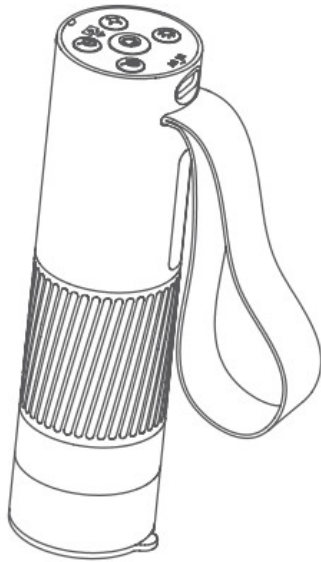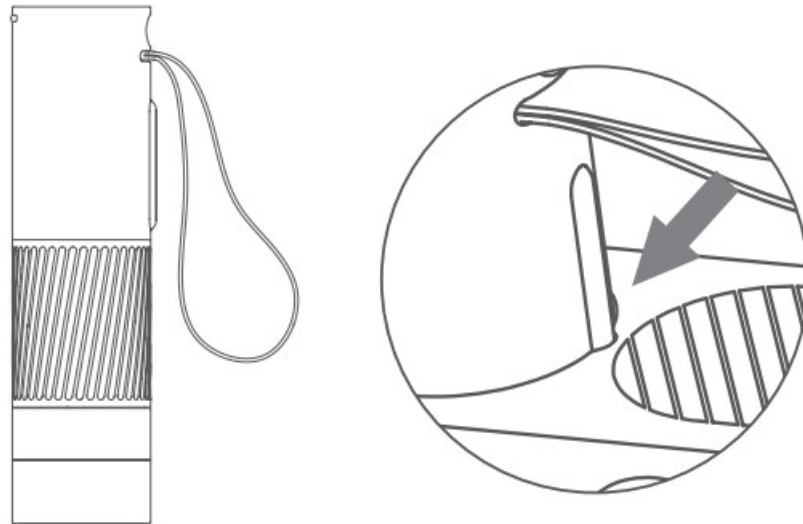

Microscope monomer   Microscope base

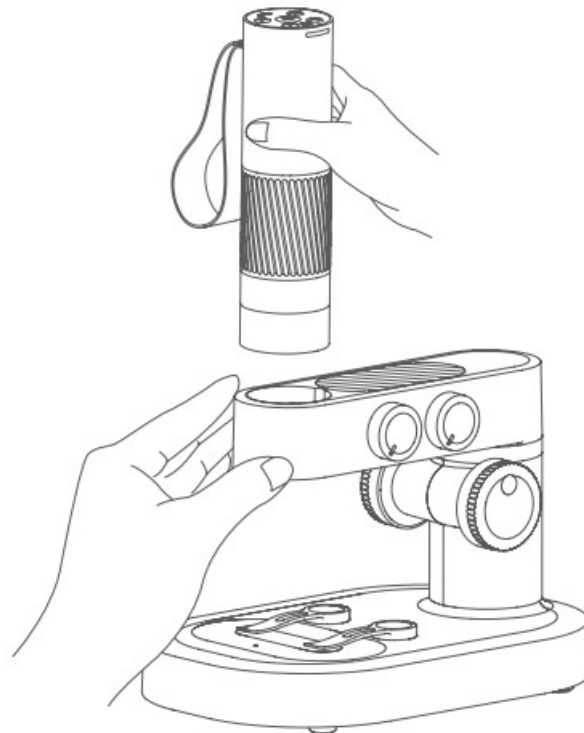**Microscope stand installation instructions**
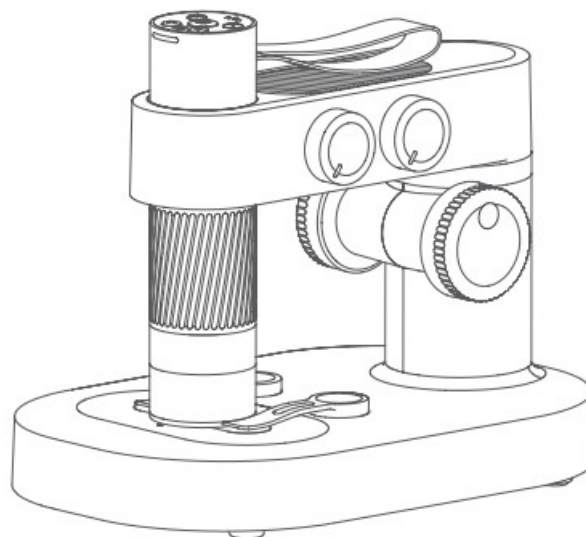
1. Remove the cap of the microscope monomer lens.

2. Handband facing the rear, the rear slot should be aligned with the mounting hole.

3. Holding the base with one hand, insert the microscope monomer vertically down into the mounting hole.

4. Insert it to the bottom (the adjustable and enlarged rotating cylinder is all exposed).

Operating environment

- Please use the microscope in a temperature environment of — 14°F —113° F.

- Please prevent the microscope from getting wet with water, beverages, or corrosive liquids.

- Please keep the microscope away from heat source, open flame, flammable and explosive gas (liquid).

- Please avoid dust entering the microscope lens and inside.

- Please prevent the microscope from being hit and shaken violently.
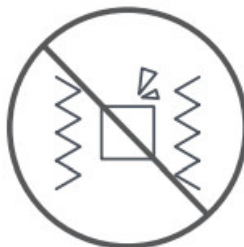
At low temperature, the available capacity of the battery will be reduced to varying degrees.
If any abnormal phenomenon occurs, please contact the after-sale department (E-mail: **service@dangdangli.com**) for maintenance.
Charging instructions

Indicator light

- When the microscope monomer is low in power, the power indicator blue light flashes quickly;
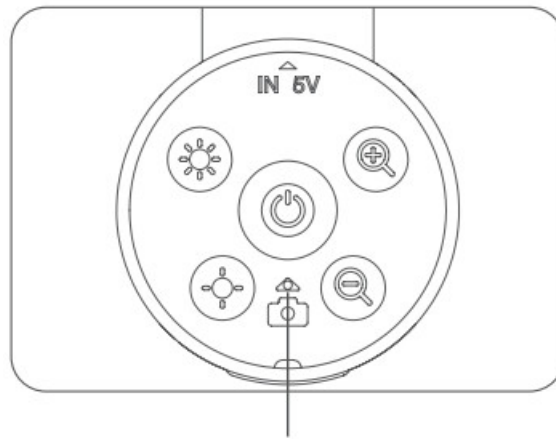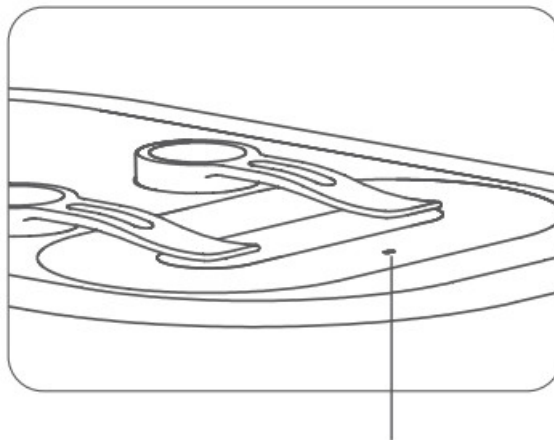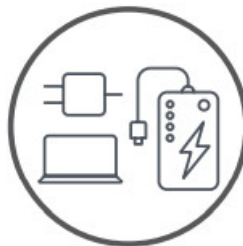- The red light is always on when charging, and the indicator goes off when full.

Indicator light

- When the microscope base is low in power, the power indicator light flashes red;
- The red light is always on when charging, and the green light is always on when full.

You can charge the microscope by your daily phone charger, computer, or power bank.
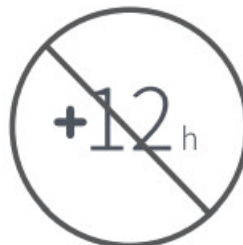
Charging time should not exceed 12 hours to avoid affecting the battery life.

- During charging, if there is slight heat in the microscope shell and battery, please rest assured that it is normal.

Storage environment

- Store in a cool and dry place for daily use, avoid direct sunlight.

- Avoid storing microscopes in places where there is a risk of falling, which may cause lens deviation or other damage to the microscope, as well as other irreparable damage.

3.2 Power on the microscope
Top button operation instructions
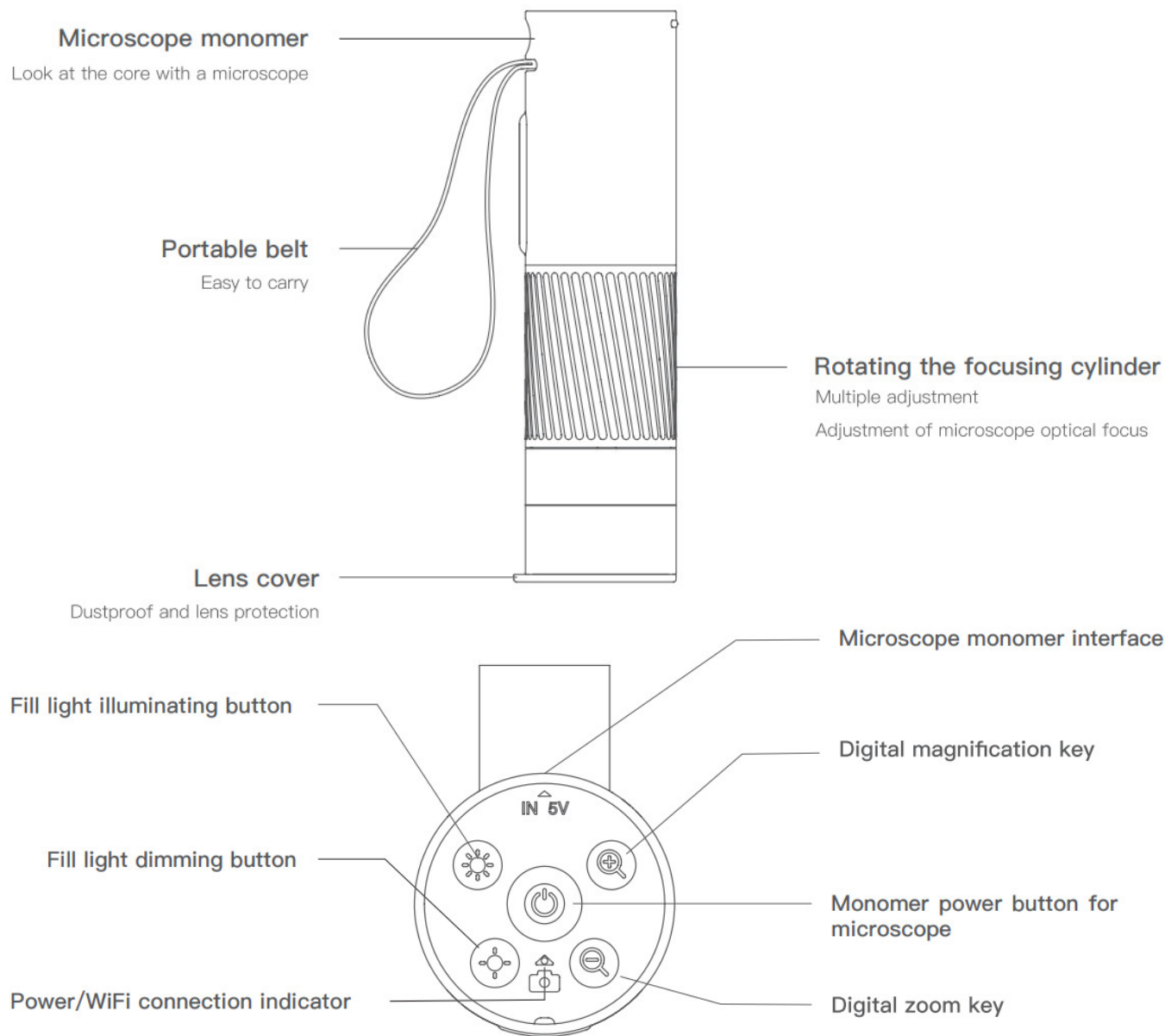Before using the microscope, be sure to hold it firmly or place it on the table.

Microscope monomer
Look at the core with a microscope

Portable belt
Easy to carry

Rotating the focusing cylinder
Multiple adjustment
Adjustment of microscope optical focus

Lens cover
Dustproof and lens protection

Microscope monomer interface

Fill light illuminating button

Digital magnification key

IN 5V

Fill light dimming button

Monomer power button for microscope

Power/WiFi connection indicator

Digital zoom key

Single power button for microscope
Long press 3 seconds to turn it on, long press 3 seconds to turn it off.

Microscope monomer interface
Charge and connect computer software.

Fill light dimming button
Click to dim the lights one level.

Digital magnification key
Tap it to digitally enlarge it.

Digital zoom key

Tap it to zoom out.

**Power /WiFi connection indicator**

When the battery is low, the blue light flashes quickly. When charging, the red light is always on. The blue light is always on when WIFI is successfully connected, and the blue light flashes when WIFI is not connected.

The microscope turns on and off

- Press and hold the power button in the middle for 3 seconds, and the light at the lower part of the button will light up or the light at the bottom will light up, which means the microscope has been turned on.
- Press and hold the power button in the middle for 3 seconds, and the light at the lower part of the button goes out or the light at the bottom goes out, which means the microscope has been turned off.

  (**Note:** Do not forget to close the lens cap after the microscope is closed and suspended.)

Adjustment of microscope magnification
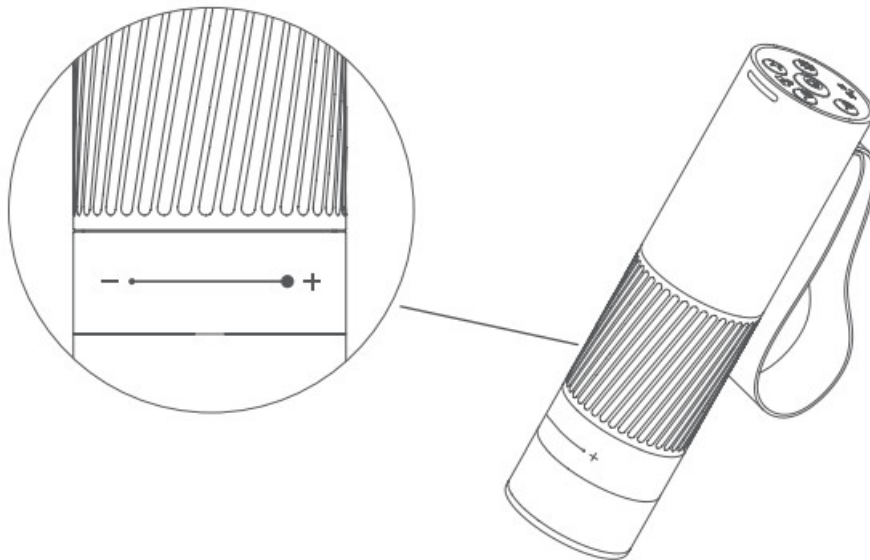
Adjustment of microscope magnification

- ↺ Counterclockwise rotation: magnification
- ↻ Clockwise rotation: minification

(**Note:** At the same distance, there are two magnifications by rotating the focusing rotary drum. The lifting knob and digital zoom in and zoom out keys can also be used to adjust the multiple. The focusing rotary drum, lifting knob and digital zoom in function are used together.)

Instructions to use:

1. Hold the top of the microscope in one hand, with the front of your fingers covered the strap to avoid falling off.
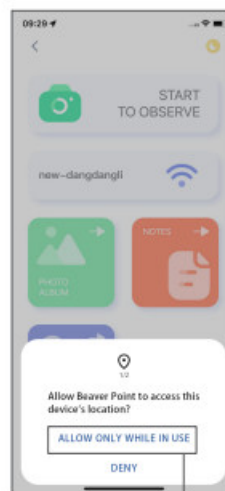
2. Turn on the microscope.

3. Scan the QR code below to download the APP, open the APP and connect the WIFI of the microscope.
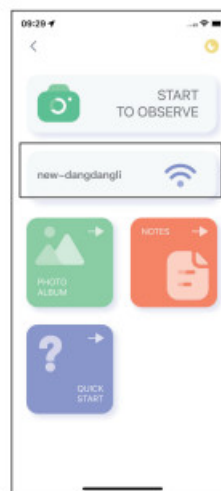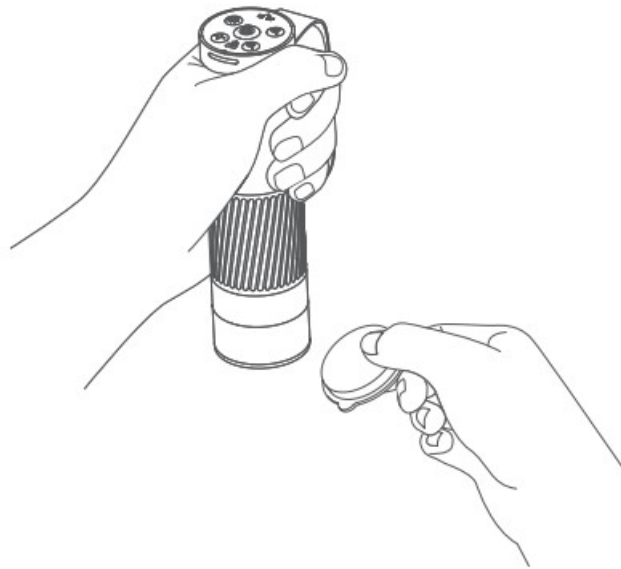

Android

iOS

Click on the link

Click allow

https://play.google.com/store/apps/details?id=com.beaverlab.mic

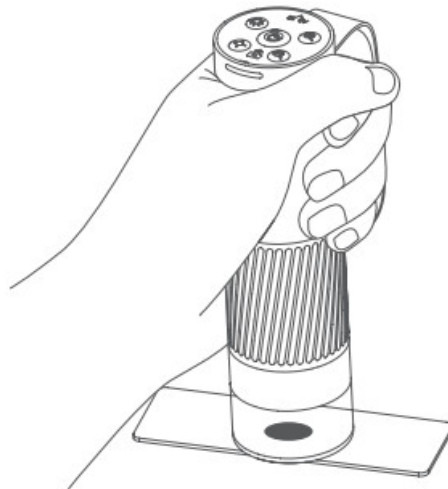**https://apps.apple.com/cn/app/beaver-point/id1580548043**
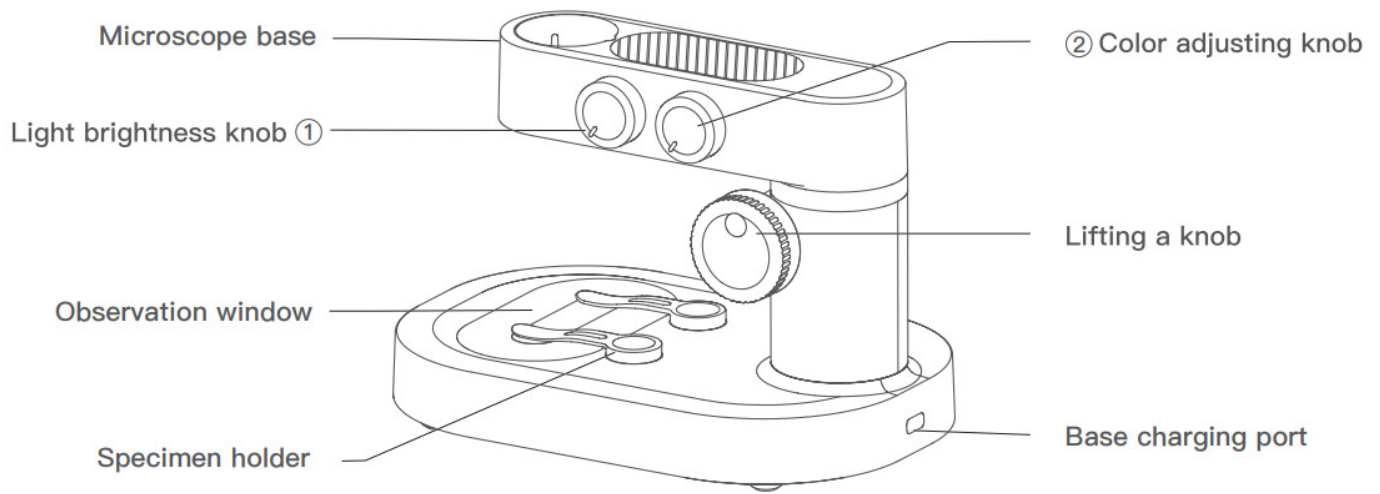
4. Remove the lens cap.

5. Point the microscope on the object to be observed.

6. Rotate the focusing cylinder and observe the display of the mobile phone. At this time, you can slowly adjust to the best viewing ratio.

3.3 Instructions for the use of microscope base

Microscope base — ② Color adjusting knob
Light brightness knob ①
Observation window
Specimen holder
Lifting a knob
Base charging port

1. **Base switch/light brightness adjusting knob**

Clockwise to turn on and adjust the brightness of the observation window, counterclockwise to dim the brightness of the window and turn off.

2. **Color adjusting knob**

Clockwise to turn on and adjust the color of the observation window in sequence of white, red, orange, yellow, green, blue, indigo, and purple, counterclockwise to adjust the color of the window and turn off.

 Observation window
The bottom light rendering window.

 Specimen holder
Fix the specimen or observe the object.

 Lifting a knob
Adjust the microscope to move up and down to achieve different magnification.

 Base charging port
Type—C interface is used for base charging.

Opening and closing of microscope base

- Turn the upper brightness adjustment button clockwise and hear a click, the observation window below will light up, which means the microscope base has been opened.
- When you turn the upper brightness adjustment button counterclockwise and hear a click, the observation window below will go out, which means the microscope base has been closed.
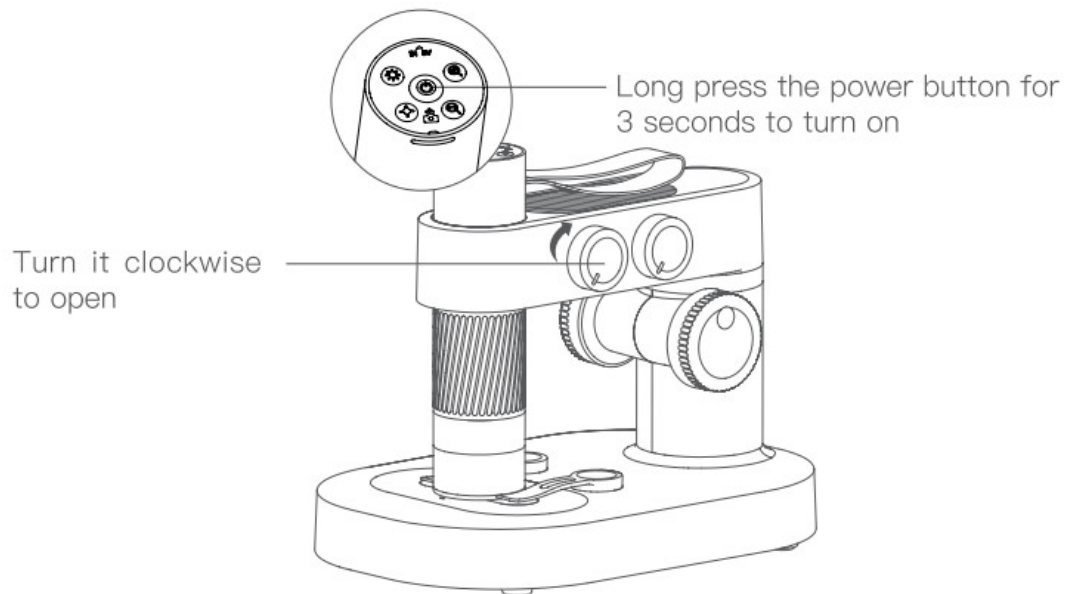
  (**Note:** After the microscope base is closed and suspended, be sure to close the microscope monomer and cover the lens cap at the same time.)

Instructions to use:

1. Place the microscope on a smooth surface to avoid shaking or falling off.
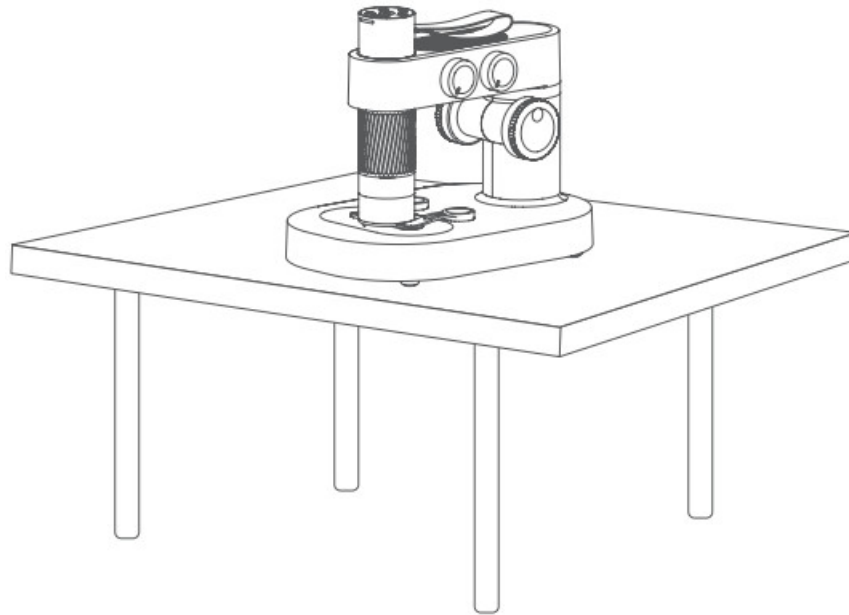
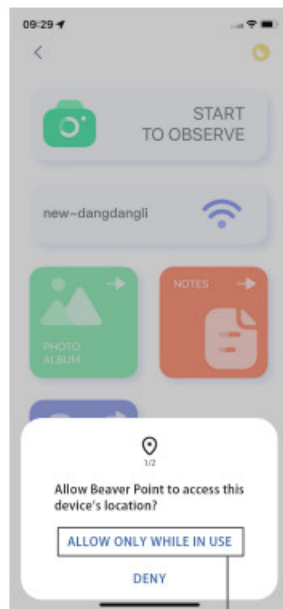2. Open the microscope cylinder and the base.

Long press the power button for 3 seconds to turn on

Turn it clockwise to open

3. Scan the QR code below to download the APP, open the APP and connect the WIFI of the microscope.

Android

iOS

09:29

START TO OBSERVE

new-dangdangli

PHOTO ALBUM

NOTES

1/2

Allow Beaver Point to access this device's location?

ALLOW ONLY WHILE IN USE

DENY

Click allow

09:29

START TO OBSERVE

new-dangdangli — Click on the link

PHOTO ALBUM

NOTES

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QUICK START

https://play.google.com/store/apps/details?id=com.beaverlab.mic

https://apps.apple.com/cn/app/beaver-point/id1580548043
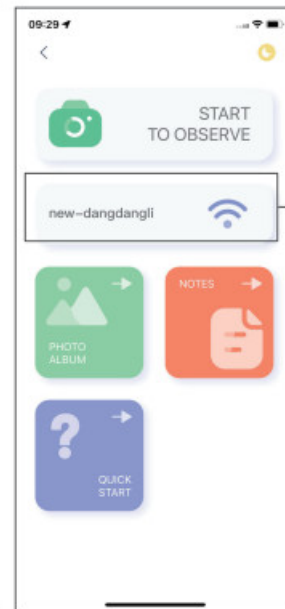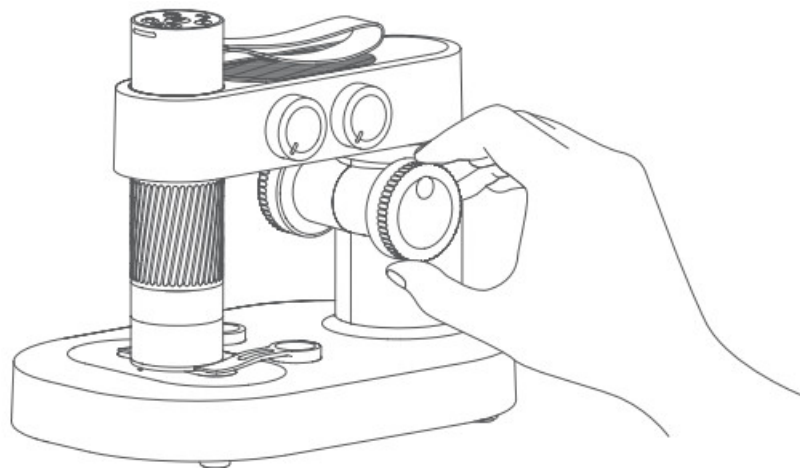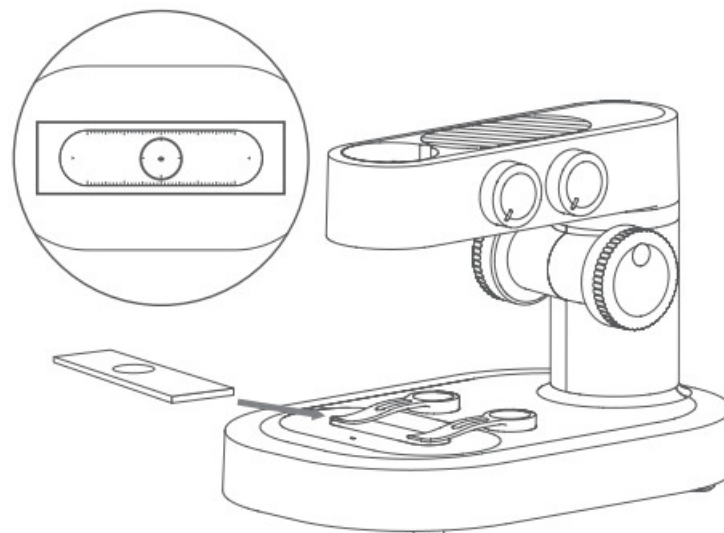
4. Adjust the microscope lifting knob, so that the lens tube is at a relatively appropriate height, easy to place the object of observation.


5. Place the object under observation on the bottom observation panel, centered on the observation panel crosshead. (THE COVER GLASS is facing up, NOT backwards)

6. Turn the focus knob to observe the display of the phone. At this time, you can slowly adjust to the best viewing power. (Adjust the observation height and focal length to achieve other multiples of observation.)
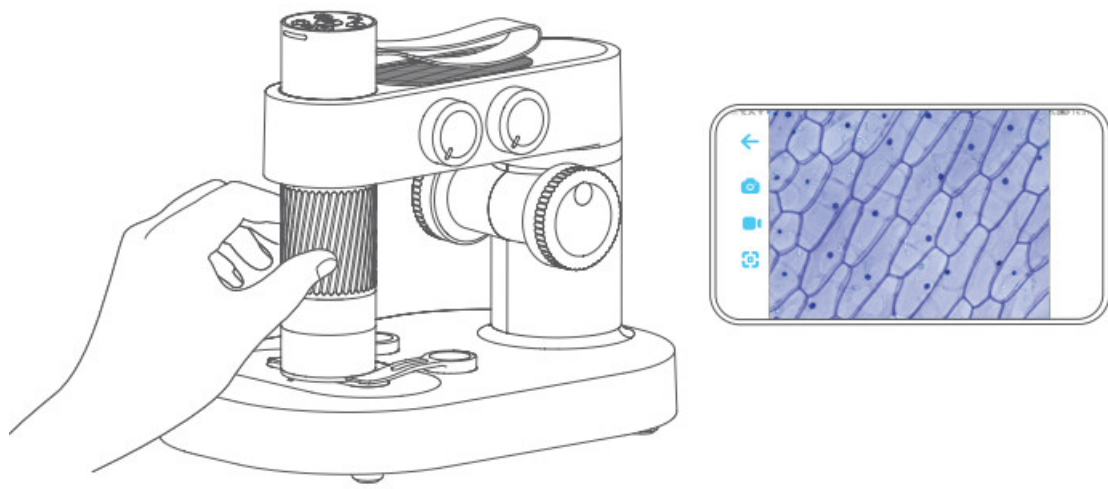
Use of specimen holder
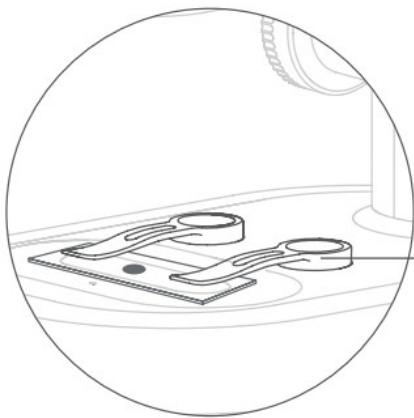
Specimen holder

Fix the specimen or observe the object

Note:

- The fixed clip adopts magnetic suction type, which can be absorbed in place as long as it is near the base installation part.
- The bottom and base of the specimen fixing clip should be cleaned regularly to avoid adsorption of other metal substances.

Observe the use of the panel

reticle

Location of specimen center

scale

Measure specimen size
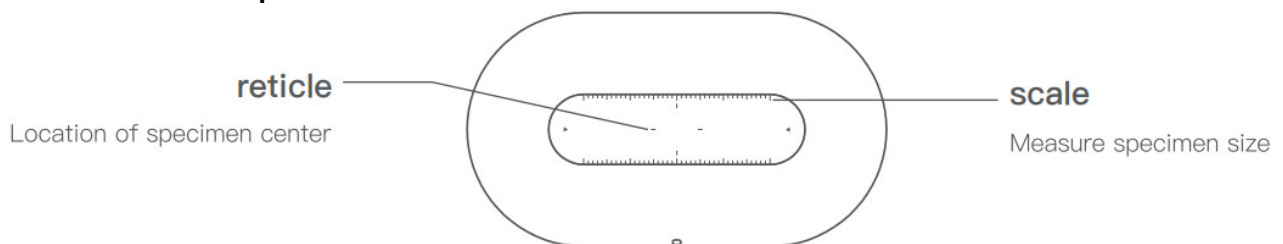
Note:

- The observation panel should be cleaned regularly to avoid oil stains or other stains, which may affect the observation experience.

Light adjustment function description of observation window

- The stronger and weaker light, the contour and details of the specimen will bring different effects, please pay attention to adjust the use.
- Different color light can bring different color rendering to the specimen, and the appropriate color light

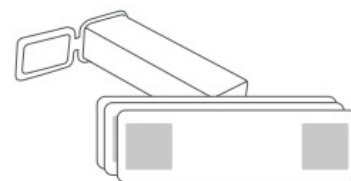rendering will have a better observation effect.

Accessories and Tools

- For M1B

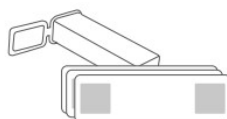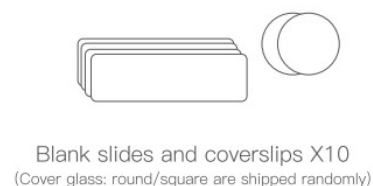| Data cable | Magnetic Specimen Holder X2 | Prepared Slides X5
Blank Slides x5 |

- For M1A

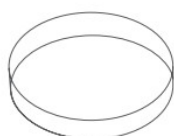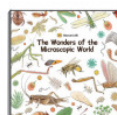| Data cable | Magnetic Specimen Holder X2 | Prepared Slides X5
Blank Slides x5 | Blank slides and coverslips X10
(Cover glass: round/square are shipped randomly) |

| Petri dish x2 | Tweezers | Dropper | Tool storage box |

| Specimen collection box | Collect bottles x3 | A popular science book
(Affiliated gifts are not for sale) | An observation record book |

Warranty

Warranty period
BeaverLAB provides a 6-month warranty for defects in materials and/or workmanship under normal use of the product. The warranty period is calculated from the date of confirmation of receipt.
Extended warranty
For product after-sales questions, please contact our after-sales email: **service@dangdangli.com** to apply for a one-year warranty extension.
**Extended warranty**

- Unauthorized maintenance, misuse, collision, negligence, abuse, liquid ingress, accident, alteration, and other improper operations, or tearing up or altering labels/anti-counterfeiting marks;
- The warranty period has expired;
- Damage caused by force majeure;

- Performance failure of this product and its accessories due to human reasons.

Android Scan here to download APP	iOS Scan here to download APP
https://play.google.com/store/apps/details?id=com.beaverlab.mic	https://apps.apple.com/cn/app/beaver-point/id1580548043

Intelligent Microscope M1

Product Model: DDL-M1 **Product Size:** 7.17 x 4.80 x 5.87inch **Product Weight:** About 1.23 lb	**Battery Certification:** KT2017-00382 YU101485-21001 **Input Voltage:** DC 5V ⎓ 1 A **Certification Number:** R-R-BvT-DDL-M1	**Battery Capacity:** Motherboard: 700mAh **Pedestal:** 1800mAh **FCC ID:** 2A2NY-DDL-M1

Brand Company: Beaver Technology(Shenzhen) Co.,Ltd
Service Mailbox: support@beaverlabtech.com
Address: Room101.102, Building 6, F518 ldea Land, No.1065, Baoyuan Road, Laodong, Xixiang, Bao'an District, Shenzhen, Guang Dong, China
Website Address: www.beaverlabtech.com / www.dangdangli.com

Made in China

Documents / Resources

	BeaverLAB DDL-M1A Intelligent Microscope [pdf] User Manual DDL-M1A Intelligent Microscope, DDL-M1A, Intelligent Microscope, Microscope

References

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