# Superëyës®

# **B011 User Guide**

# Thanks for purchasing **Supereues** portable digital microscope!

This digital microscope is widely used in many areas, such as:

- Industrial inspection, printed circuit board, precision machinery inspection, CNC lathe installation monitoring, etc.
- Inspection of cultural relics, gemstones, calligraphy and paintings, security codes
- Long distance micro focus
- Product appearance inspection

It is easy to use. With Supereyes software, you can take photo, record video and measure freely.

To use the digital microscope smoothly, please read this instruction carefully or learn to use it by other ways.

#### Specifications

- Image sensor: 5MP
- Max resolution: 2592 x 1944
- Lens: interchangeable lens
- Magnification: 30 2000X (different lenses)
- Photo and video: anti-shake photo and video function
- Light source: adjustable & interchangeable
- Frame rate: max 30FPS
- Interface: type-c
- Working distance:
  - 10 40 mm (lens L10)
  - 30 200 mm (lens L100)
  - 8 9 mm (lens L1000)
  - 1.5 2 mm (lens L2000)
- Measurement:
  software measurement

### System requirements

- Operating system:
  Windows 7/8/10, Mac OS
- USB 2.0 port
- More than 600 MB free disk space

### Packing list

- Standard package: B011 microscope body (including lens L10, white light), Z008 stand, USB cable, USB stick for software, calibration ruler, user manual
- Optional items

Lens: L100, L1000, L2000.

Light source: DP01, DR01, DA01, DB02, DB03.

DBU3.

Fixed-focus cap: D10, D100,

D1000、D2000.

## Structure



# How to install lens and light



## Optional accessories

Lens L10 Magnification: 50 - 500X Working distance: 10 - 40 mm



Lens L100 30 - 300X30 - 200 mm



Lens L1000 500 - 1000X  $8 - 9 \, \text{mm}$ 



Lens L2000 1000 - 2000X 1.5 - 2 mm



White light

UV light **DB03** wavelength 395



**DB02** wavelength 850

IR light



Compatible with

Universal light (white) **DR01** compatible with L10, L100



Compatible with L10, L100

Compatible with L10, L100

L10, L100

Polarizer DP01



Polarizers can help resolve and analyze a variety of anisotropic or isotropic substances

Darkfield illuminator DA01

compatible with L10, L100



Darkfield illumination assists in viewing specimens in reflected and diffracted light

Fixed focus cap



Fixed focus cap D100



Fixed focus cap D1000



Fixed focus cap D2000



### Hardware installation

1. Connect USB cable to Type-C port of the microscope body, and USB port of computer. Put microscope into the holder of the stand and tighten up (keep the focus knob

Fig1

- exposed); keep the lens towards the object as fig 1.2. Adjust the lift knob to get proper object
- distance, rotate the focus ring to make image clear (zoom in  $\leftarrow \parallel_{\parallel_{\parallel}} \rightarrow$  zoom out).
- 3. Adjust the brightness by the touch dimming button.
- 4. Touch the photo button on the microscope to take a picture.
- 5. When hand-held, the focusing and dimming operations are the same as above, and it is better to use the corresponding fixed-focus cap.
- 6. The lifting stand is installed as shown in the figure below,



Fig 2

## Trouble shooting

| No. | Troubles         | Possible reasons                | Solution                         |
|-----|------------------|---------------------------------|----------------------------------|
| 1   | Black screen     | LED off.                        | Turn on LED by touch button and  |
|     |                  | Preview is not on.              | connect lens well.               |
|     |                  | Choose wrong device.            | Click on preview.                |
|     |                  | Connection between PC &         | Choose right device.             |
|     |                  | microscope is not good.         | Plug into mother board USB port. |
| 2   |                  | Wrong focal distance.           | Adjust focal distance.           |
|     | Vague image,     | connection to PC not well.      | Plug to mother board USB port.   |
|     | low frame rate   | High resolution.                | Choose lower resolution.         |
|     |                  | Limitation of PC configuration. | Try another PC.                  |
| 3   | Image distortion | Connection to pc not well.      | Plug to mother board USB port.   |
|     |                  | Microscope malfunction.         | Return for repairs.              |
| 4   | Unrecognized     | Connection to pc not well.      | Plug to mother board USB port.   |
|     |                  | Microscope malfunction.         | Return for repairs.              |

## Notice

- 1. Please do not touch lens and other optics, otherwise, product performance may be influenced.
- 2. Please do not disassemble product to avoid danger and product damage.
- 3. Please use and store it under this environment, temperature:  $0^{\circ}$  C~  $40^{\circ}$  C; humidity:  $45\% \sim 85\%$ .
- 4. In case of dropping tiny object or liquid into microscope, please disconnect the USB cable immediately and send product to manufacture for quality inspection and repair.

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