

# Digital Microscope

W1A User Instruction Manual

Please read this manual in detail ! Careful reading experience is better!  
Please keep the user instruction manual properly!

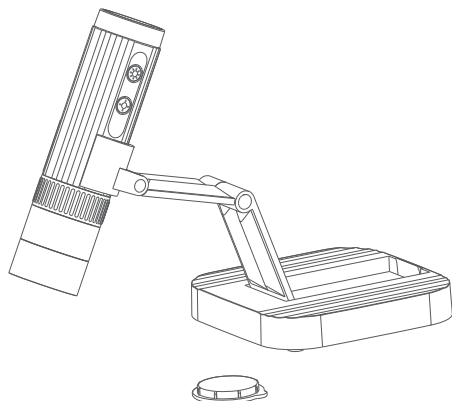


# 1 Product Overview

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Please read this manual carefully before using.

Do not use the microscope until you know the method.



## 2 Use Instructions

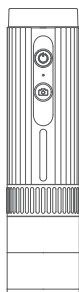
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- Please read this instruction manual carefully, and use it correctly.
- Pay attention to protect the lens part. Close the lens lid after using to avoid entering dust or strange objects.
- The microscope can be used in hand or inserted as a desktop, with attention to avoid damage to the components.
- When placing items, place them directly below the center of the lens as much as possible. A void not seeing objects clearly and bringing about a bad experience.

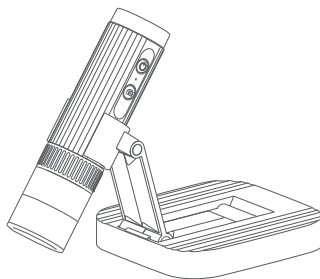
# 3 Instructions for Using the Microscope Installation

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## Microscopy Composition



Microscopic Monomers



Microscope Base

## Using Environment



Please be at -10°C~45°C,  
Use under the  
environment



Please avoid the microscope  
being wet with water, drinks,  
corrosive lamp liquid



Please avoid keeping the  
microscope close to the  
heat source, open flame,  
flammable and explosive  
gases (liquid)



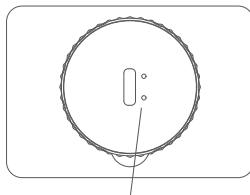
Please avoid the dust from  
entering Microscope lens and  
interior



Please avoid microscope  
Impact and  
violent shaking

At low temperatures, the available capacity of the battery decreases to varying degrees.

## Charging Instructions



Pilot Lamp

- When the microscope unit power is low, the power indicator light blue light flash.
- The red light is always on when charging, and the indicator light goes off when filling it up.



You can use a daily mobile phone charger, computer, and charger to charge the microscope.



The charging time should not exceed 12 hours to avoid affecting the battery life.

- During the charging process, if the microscope shell and the battery are slightly heated, please rest assured to use the normal phenomenon.

## Storage Environment

- Store it in a cool and dry place for daily use to avoid direct sunlight.
- Avoid storing the microscope in a place with the risk of falling, which may cause the deviation of the microscope lens inside or the damage to other components, and other irreparable damage problems.

## 4 Microscope Opening and Use

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Before using the microscope, make sure your hands are secured, or use it on the desktop.

### Monomer Microscope

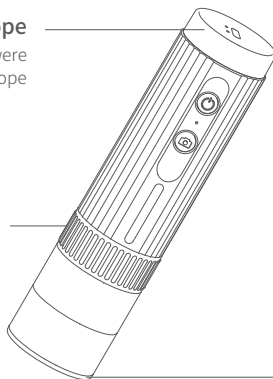
The core components were observed by microscope

### Focus Rotation Cylinder

Multiple Regulation  
Microscopy optical  
focus modulation

### Lens Cap

Dust-proof,  
protect lens



### Power Button

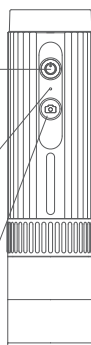
Turn on /off Button

### Reset Hole

Resume Factory  
Setting

### Photo Button

Take a Photo and  
Save the  
Captured Screen

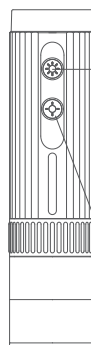


### Fill Light Bright Button

Lens Barrel  
Fill Light brighten

### Fill Light Dim Button

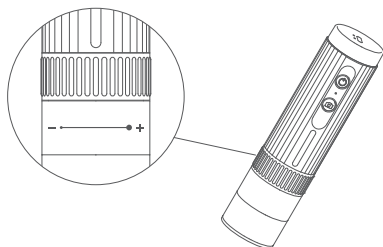
Lens Barrel Fill  
Light Dimming



## The Microscope is On and Off

- Press the boot button on the side for 3 seconds, the small light on the USB interface or the bottom light is on, it means that the microscope is already turned on. Press and hold the boot button on the side for 3 seconds, USB, the small light on the interface side is off or the bottom light is off, which means that the microscope has been off. (Note: the microscope monomer is closed, suspended after use, do not forget to cover the lens cover.)

## Microscopic Magnification Regulation



-  Counter-Clockwise Rotation: multiple magnification
-  Clockwise Rotation: multiple reduction

(Note: In case of any other problems, the reset hole will restore the factory setting. At the same distance, the rotating zoom cylinder has two magnifications. To adjust more multiples, it can be adjusted up and down through the microscope base bracket.)

## 5 Accessories and Tools

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Data Wire



Instructions



Calibration Card

## 6 The APP Use Guide

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### Use on Android / IOS Devices:

- Scan the QR code, click download and install.



Software to download  
the QR code

- The mobile terminal is the IOS system, and you can search for "Uni Lab" at APP Store for download



The IOS / Android APP Icon

- **Turn On the Device**

Long press the power button for 3s, and the blue light flashes under the button after turning on, indicating that the app has not been connected yet.

- **Connect the Microscope to the Android / IOS Device**

① Opens the Uni Lab APP, click WiFi, jump to the connection page of the Android / IOS device, select the corresponding WiFi name of the product "WTM-1-XXXXXX" (hotspot without encryption)

② Clicks on and connects to the hotspot. If the connection confirmation prompt appears, please click "Keep Connected"(Android version) / click "OK"

③ After the connection is successful the microscope blue lights on, proving that the microscope has successfully connected to your device. Return to the APP to use it only.

**Note:** Please open the phone / tablet location permission when the APP is connected to the microscope.

## Introduction and Use of the APP Interface

Open the APP, and follow the indicated operation steps.  
(Select the content in the red box)



①



②



③



④



⑤



- **APP, Reading Interface**

Because of the mobile phone model version is different, the pictures are for reference only





**Take a photo:** Select a photo mode

**Recording:** Select the recording mode

**Zoom in:** Click to zoom in on the screen (use when the screen is too small)

**Zoom Out:** Click to zoom out the screen (used when the screen is too large, the default is the smallest each time it is opened)

## The Computer Interface Introduction and Use

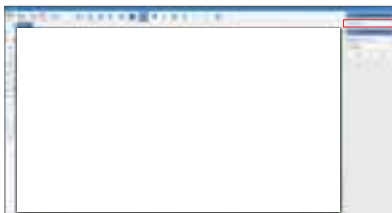
①When the computer operating system is Windows 10 or higher, search in the Microsoft Store Download “Uni Lab” , (as shown in “” ); when the computer system is Mac, please use the computer to Watch with a camera (as shown in “”). The device camera button cannot be used, it can only be realized through software Photo recording function;

②Windows 7 and Windows XP system, please download the software from the following website "<http://www.weetool.net>"

①Log in the website and download UniLab software.



②Open the software and select the device.  
(Windows)



③Open the software and select the device. (Mac)



## 7 Troubleshoot the Microscope

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Problem Phenomenon	Cause	Processing Method
Heat up during the charging process	During the charging process, the current is relatively large, and the lithium battery heats up, which is a normal phenomenon.	Normal status
The APP is not unconnected	① The is too far away from ② The device without power ③ Equipment failure	① Close repeated connection ② To charge the device using ③ APP and the device are off, restart before use
The APP was suddenly disconnected	① The is too far away from ② The device without power ③ Equipment failure	① Close repeated connection ② To charge the device using ③ APP and the device are off, restart before use
The device cannot be charged	① Charging interface is not firmly plugged in ② No power access to ③ Device fault	① Replug interface ② Power on

The lens shows a blurred image	The ambient temperature changes dramatically, causing the lens to fog	Wait for the temperature balance, a period of fog disappeared before use
The product cannot be turned down or the button fail	System halted	Please plug in the power supply for reset and restart

**Note:** It is normal for the APP to exit after being plugged in.

## Microscopy Overall Parameters

Project	Parameter
<b>Product Magnification Ratio</b>	50X-1000X
<b>Lens Structure</b>	2G+IR
<b>Angle of Field</b>	16° (depending on the lens)
<b>LED Quantity</b>	8 SMD 3528 bright white lights (brightness adjustable)
<b>Focus Mode and Focus Range</b>	Manual adjustment, 0 to 40 mm
<b>Imaging Distance</b>	3mm to Infinity
<b>Sensor Size</b>	1/4"
<b>Noise-signal Ratio</b>	37db
<b>Sensitivity</b>	4300mV/lux-sec
<b>Video Recording Format</b>	AVI
<b>Video Resolution</b>	1920*1080
<b>Picture Format</b>	JPG
<b>Picture Size</b>	1920*1080
<b>Working Range</b>	0-10m (Open scene, Sheltered scene will affect working range)

<b>Project</b>	<b>Parameter</b>
<b>Working Hours</b>	≥2h
<b>Power Supply Mode</b>	700mAh
<b>Charging Requirements</b>	DC-5V~1A
<b>Charging Time</b>	1.5h
<b>Working Current</b>	~260mA
<b>Single Machine Size</b>	125x32x32mm
<b>Product Color</b>	Blue (subject to physical objects)
<b>The WiFi Working Environment</b>	Android 4.0 and above systems, ios8.0 and above systems
<b>WiFi, Working environment, Supporting Equipment Requirements</b>	Support for 2.4Ghz (802.11b / g / n) wireless data transmission equipment
<b>The USB Working Environment</b>	Windows xp, win 7, win 8.1, and win10 (32,64-bit) provide support for Mac
<b>Working Temperature</b>	0°C - 40°C
<b>Storage Temperature:</b>	20°C - 60°C
<b>Working Humidity:</b>	30-60%RH

## Digital Microscope

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**Product name:** Digital Microscope

**Product size:** 125x95x55mm

**Net weight:** about 0,29kg

**Power supply mode:** 700mAh

**Input parameter:** DC5V ===

**Operating temperature:** -10°C~45°C

**Wireless connection:** Wi-Fi IEEE802.11b/g/n 2.4Ghz

**Certification information:** CE FCC RoHS

# Microscopy Overall Parameters

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception,

which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction