

UF-TOOLS SUGON-Digital Microscope

UF-TOOLS 7-Inch LCD Digital Microscope User Manual

Model: SUGON-Digital Microscope

1. INTRODUCTION

This manual provides detailed instructions for the setup, operation, maintenance, and troubleshooting of your UF-TOOLS 7-Inch LCD Digital Microscope. Please read this manual thoroughly before using the device to ensure proper functionality and to maximize its lifespan.



Image 1.1: UF-TOOLS 7-Inch LCD Digital Microscope with included 64GB TF card, showing the main unit and stand.

1.1 Key Features

- **7-Inch LCD Screen:** Provides a clear, high-definition display for direct viewing without a computer.
- **10X-1200X Magnification:** Continuous zoom capability for observing various objects.
- **12MP Camera:** Captures high-resolution images and 1080P video.
- **64GB TF Card:** Included for direct storage of photos and videos. Supports up to 128GB.
- **8 Adjustable LED Lights:** Ensures optimal illumination for detailed observation.
- **Flexible Aluminum Alloy Stand:** Allows for 90° angle adjustment and 2-10cm focus distance adjustment.

- **Built-in 3000mAh Battery:** Offers portability with up to 6 hours of operation on a full charge.
- **PC Connectivity:** Compatible with Windows 7/8/10 for larger display and data transfer.

2. PACKAGE CONTENTS

Verify that all items listed below are present in your package:

- UF-TOOLS 7-Inch LCD Digital Microscope Unit
- Adjustable Aluminum Alloy Stand
- 64GB TF Card
- USB Cable
- Power Adapter (if included)
- User Manual (this document)



Image 2.1: The microscope package includes a 64GB TF card for storage.

3. SETUP GUIDE

3.1 Assembling the Microscope

1. Carefully unpack all components from the box.
2. Attach the microscope unit to the adjustable aluminum alloy stand. Ensure it is securely fastened using the provided screws or locking mechanisms.
3. Insert the 64GB TF card into the designated slot on the microscope unit.
4. Place the assembled microscope on a stable, flat surface.



Image 3.1: Product dimensions and adjustable stand features, including 270° rotation and height adjustment.

3.2 Charging the Battery

The microscope has a built-in 3000mAh rechargeable battery. Before first use, fully charge the device.

- Connect the USB cable to the microscope's charge port and the other end to a power adapter or a computer's USB port.
- The charging indicator light will show the charging status.
- A full charge typically provides up to 6 hours of continuous use.

Package Included 64GB TF Card

Support Most 128GB MicroSD Cards.
(Not Included)



Image 3.2: The microscope features a long-lasting rechargeable battery, charged via USB.

4. OPERATING INSTRUCTIONS

4.1 Device Overview and Controls

1X-1200X Magnification

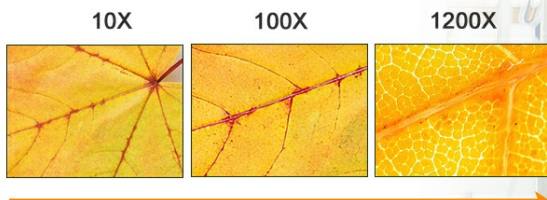


Image 4.1: Overview of the microscope's controls and ports, including charge port, MicroSD slot, light regulation, fixed knob, lifting adjusting bracket knob, and various function buttons.

- **Power On/Off:** Press and hold the Power button to turn the device on or off.
- **Video/Camera Playback:** Use dedicated buttons to switch between video recording, photo capture, and playback modes.
- **System Key Programming:** Access menu settings for various configurations.
- **Object Distance Adjustment:** Adjust the distance between the lens and the object.
- **Page Up/Down:** Navigate through menus or captured media.
- **Confirm Key/Camera Button:** Select options or capture photos/videos.
- **Light Regulation:** Adjust the brightness of the 8 LED lights.
- **Fixed Knob:** Secures the microscope unit to the stand.
- **Lifting Adjusting Bracket Knob:** Adjusts the height of the microscope unit on the stand.

4.2 Adjusting Magnification and Focus

1. Place the object you wish to observe on the base plate.
2. Adjust the height of the microscope unit using the Lifting Adjusting Bracket Knob to get a rough focus.
3. Use the focus wheel on the microscope lens to fine-tune the focus until the image on the 7-inch LCD screen is clear.
4. The magnification range is 10X to 1200X. Adjust the distance between the lens and the object, along with the focus wheel, to achieve the desired magnification.

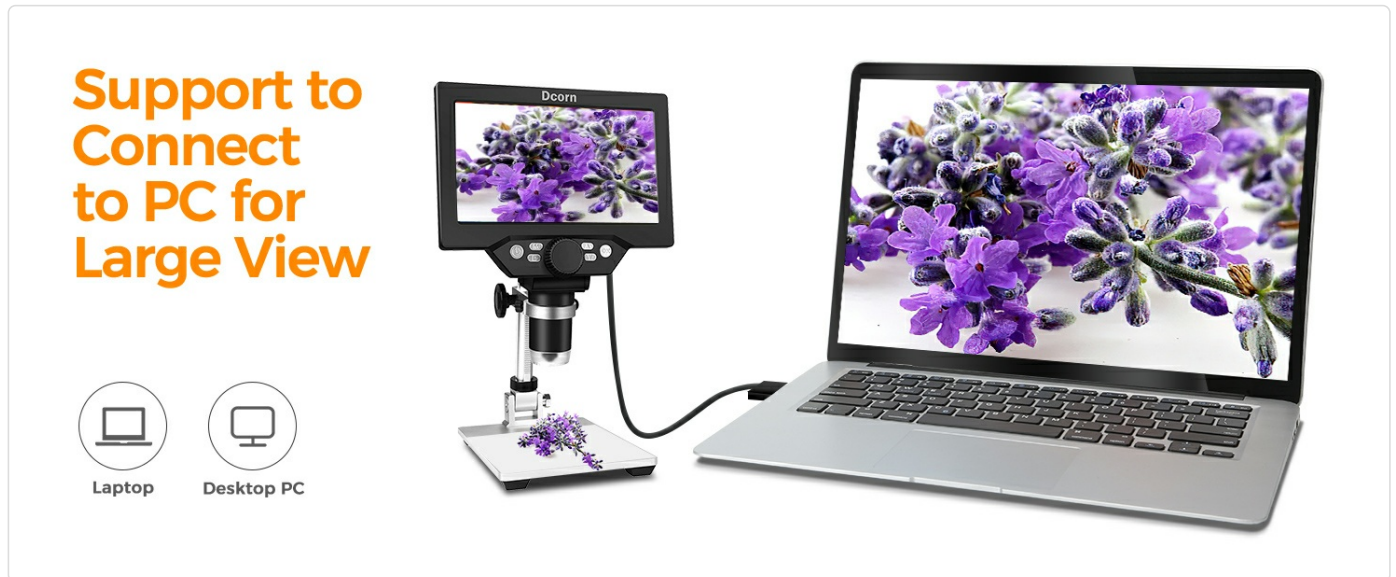


Image 4.2: The microscope features an adjustable screen, free length adjustment, and precise focus control.

10-1200X

Digital magnification

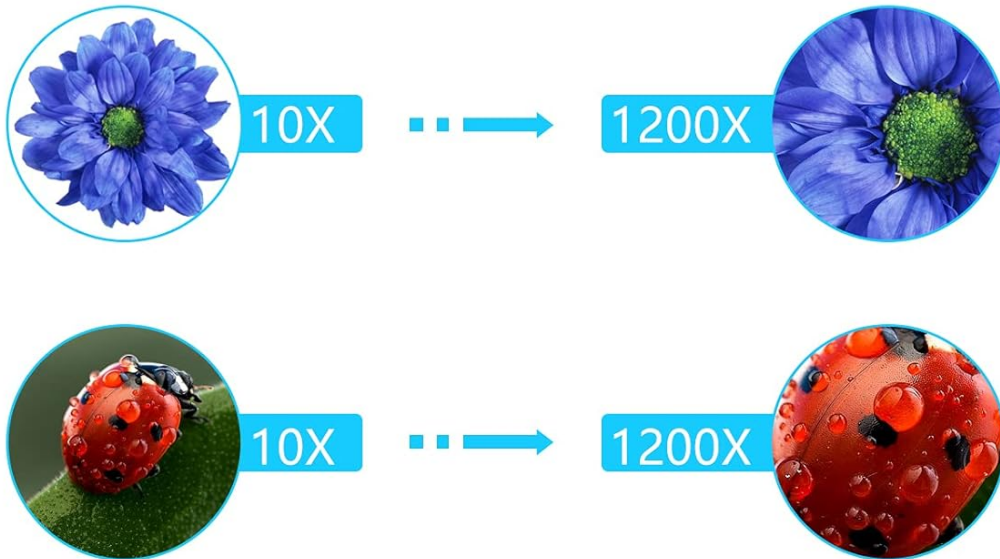


Image 4.3: Digital magnification from 10X to 1200X, demonstrating the zoom capability on small objects.

4.3 Using the LED Lights

The microscope is equipped with 8 adjustable LED lights to illuminate your subject. Use the Light Regulation control to increase or decrease brightness as needed for optimal viewing.



Image 4.4: The 8 LED lights provide adequate illumination for observing objects in various lighting conditions.

4.4 Capturing Photos and Videos

With the included 64GB TF card, you can directly save images and videos.

- In photo mode, press the Confirm/Camera button to capture an image.
- In video mode, press the Confirm/Camera button to start recording, and press again to stop.
- Captured media can be reviewed using the playback function.

4.5 PC Connectivity

To view observations on a larger screen or transfer files, connect the microscope to a Windows PC (Windows 7/8/10) using the provided USB cable.

- Connect the microscope to your PC via the USB cable.
- The microscope should be recognized as a storage device or a webcam, depending on the mode selected on the microscope.
- You can then access the stored images/videos or use the microscope as a live camera feed.

Long-lasting & Rechargeable Battery

Built-in 3000 mAh large capacity battery, work up to 3 hours in full charge

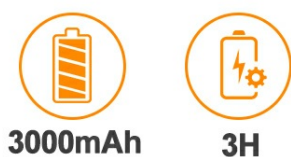


Image 4.5: Connect the microscope to a PC for a larger viewing experience and data management.

5. MAINTENANCE

5.1 Cleaning

- **Lens:** Use a soft, lint-free cloth specifically designed for optical lenses. For stubborn smudges, a small amount of lens cleaning solution can be applied to the cloth, not directly to the lens.
- **Screen:** Wipe the LCD screen gently with a microfiber cloth. Avoid harsh chemicals.
- **Body:** Clean the microscope body and stand with a soft, dry cloth. Do not use abrasive cleaners or solvents.

5.2 Storage

- Store the microscope in a cool, dry place away from direct sunlight and extreme temperatures.
- If storing for an extended period, ensure the battery is partially charged (around 50%) to prolong its lifespan.
- Keep the lens covered to prevent dust accumulation.

5.3 Battery Care

- Avoid fully discharging the battery frequently.
- Charge the battery regularly, even if not in use, to maintain its health.
- Do not expose the battery to high temperatures.

6. TROUBLESHOOTING

- **No Power:**
 - Ensure the battery is charged. Connect the microscope to a power source and try again.
 - Check the power cable connection.
- **Blurry Image:**
 - Adjust the focus wheel carefully.
 - Adjust the height of the microscope unit on the stand.
 - Ensure the object is properly illuminated by adjusting the LED lights.
 - Clean the lens if smudges or dust are present.
- **Cannot Capture Photos/Videos:**
 - Ensure a TF card is inserted and properly formatted.
 - Check if the TF card has sufficient storage space.
 - Verify the device is in the correct photo or video capture mode.
- **PC Not Recognizing Device:**
 - Ensure the USB cable is securely connected to both the microscope and the PC.
 - Try a different USB port on your computer.
 - Restart both the microscope and the PC.
 - Ensure your PC is running Windows 7/8/10.

7. SPECIFICATIONS

| Feature | Detail |
|--------------------|------------------------------------|
| Model Name | SUGON-Digital Microscope |
| Screen Size | 7 Inch LCD |
| Magnification | 10X-1200X |
| Camera Resolution | 12MP |
| Video Resolution | 1080P |
| Storage | 64GB TF Card (Max 128GB supported) |
| Illumination | 8 LED Lights |
| Battery Capacity | 3000mAh Lithium Polymer |
| Battery Life | Up to 6 hours (approx.) |
| PC Compatibility | Windows 7/8/10 |
| Material | Metal, Plastic |
| Item Weight | 2.44 pounds (1.11 kg) |
| Package Dimensions | 9.8 x 8.19 x 3.35 inches |

8. WARRANTY AND SUPPORT

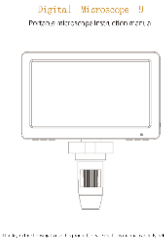
UF-TOOLS provides the following warranty and support for this product:

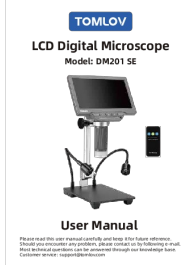
- **Return Period:** 45 days limited product return period.
- **Exchange Policy:** 18 months exchange for product defects.

For technical support or warranty claims, please contact UF-TOOLS customer service through the retailer where the product was purchased or visit the official UF-TOOLS website for contact information.

Note: Warranty terms may vary based on region and retailer. Please retain your proof of purchase.

Related Documents - SUGON-Digital Microscope

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|---|--|
|  | <p>Digital Microscope 9 Portable Microscope Instruction Manual</p> <p>This manual provides instructions for the Digital Microscope 9 (DM9), a portable digital microscope featuring a 7-inch display, 1200x magnification, and support for multiple languages. It details product usage, features, structure, functions, specifications, and safety precautions for effective operation.</p> |
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TOMLOV DM201 SE LCD Digital Microscope User Manual

Comprehensive user manual for the TOMLOV DM201 SE LCD Digital Microscope, covering setup, operation, features, specifications, and troubleshooting for optimal use.



MS1 Digital Microscope (7-Inch) User Manual

User manual for the MS1 Digital Microscope with a 7-inch screen, detailing installation, parts, functions, PC connectivity, specifications, and warnings.



[G1200 Digital Microscope User Manual and Specifications](#)

User manual for the G1200 Digital Microscope, detailing its main parameters, significant improvements, operational features, and technical specifications. Includes information on magnification, display, battery, language support, and advanced features like HDR and continuous shooting.



SKYEAR 4.3" Digital Microscope User Manual - Features & Operation Guide

Comprehensive user manual for the SKYEAR 4.3-inch digital microscope, detailing its 1000X magnification, 8 LED lights, and PC connectivity for detailed observation. Includes Aopick product information.



Komshine KIP-600V Fiber Optic Connector Inspection System

Komshine KIP-600V is a fiber optic connector inspection system featuring a 400x magnification, 3.5-inch HD LCD display, and a 4000mAh battery for up to 20 hours of standby time. It supports real-time video recording and playback via TF card, and is compatible with various connector types including FC, SC, ST, and LC.