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› [TOMLOV](#) /

› [TOMLOV TM4K Max 4K Digital Microscope User Manual](#)

TOMLOV TM4K MAX

TOMLOV TM4K Max 4K Digital Microscope User Manual

Model: TM4K MAX | Brand: TOMLOV

1. INTRODUCTION

The TOMLOV TM4K Max 4K Digital Microscope is an advanced imaging tool designed for detailed observation and analysis. Featuring 4K UHD video and 52MP image capture, it provides exceptional clarity for various applications, including electronics repair, coin examination, and scientific exploration. Its versatile spin arm stand and large display enhance usability and precision.



Figure 1.1: The TOMLOV TM4K Max 4K Digital Microscope, showcasing the main unit with its 10.1-inch display, remote control, and included 64GB Micro SD card.

2. PACKAGE CONTENTS

Please verify that all items listed below are included in your package:

- 1x TM4K Max 4K Digital Microscope
- 1x Spin Boom Arm Stand
- 1x Large Base
- 1x Ring Light
- 1x 64GB Micro SD Card
- 1x Light Barrier
- 2x USB Cable
- 1x 5V Adaptor
- 1x HDMI Cable
- 1x Controller

- 1x User Manual

3. PRODUCT OVERVIEW

3.1 Key Components

The TOMLOV TM4K Max consists of several key components that work together to provide its advanced functionality:

- **10.1" UHD IPS Display:** Provides a large, clear, and color-accurate view of magnified objects.
- **4K Camera Sensor:** Captures high-resolution 4K video (3840x2160P) and 52MP still images.
- **Spin Arm Stand:** Offers 360° rotation and vertical/horizontal adjustment for flexible positioning.
- **Large Base:** Provides stability and an expansive working area (15" x 9.8").
- **Ring Light:** Ensures uniform and bright illumination of the subject, minimizing shadows.
- **Control Unit:** Integrated controls on the display for power, menu navigation, and capture functions.
- **Remote Controller:** Allows for convenient operation, including picture capture, video recording, and zooming, without touching the display.



Figure 3.1: The microscope's 360-degree spin arm stand allows for versatile positioning and angle adjustments, enhancing flexibility during observation and work.

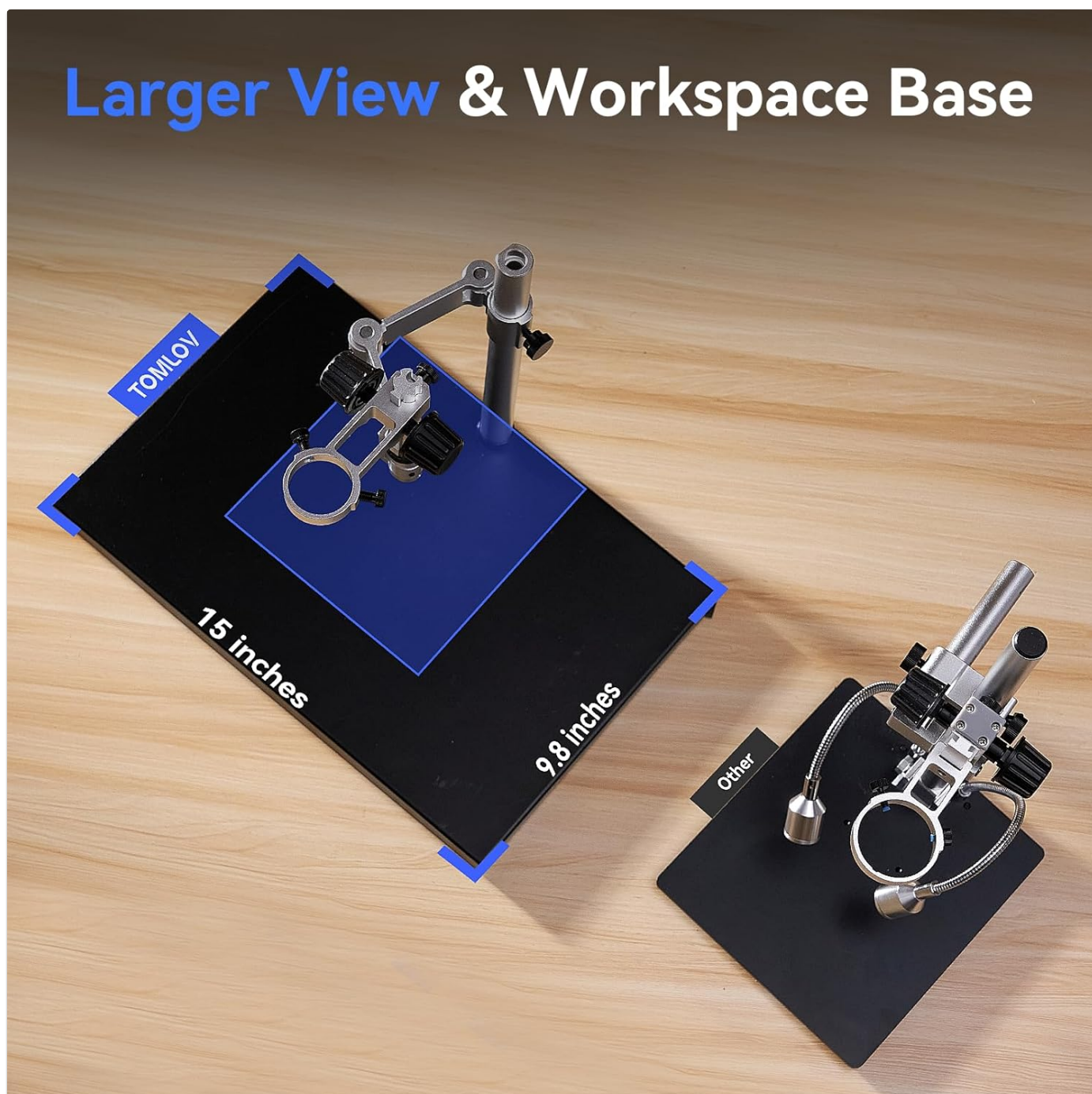


Figure 3.2: The microscope supports real-time tri-screen display, allowing simultaneous output to the built-in screen, an external monitor via HDMI, and a computer via USB for enhanced viewing and collaboration.

Brightness Ring Light



Broad Workspace



Minimized Reflections



30000-35000LUX



6500K-7000K

Figure 3.3: The integrated ring light provides uniform and powerful illumination, ensuring clear visibility of objects under the microscope by minimizing shadows and enhancing brightness.

4. SETUP GUIDE

Follow these steps to assemble and set up your TOMLOV TM4K Max Digital Microscope:

1. **Assemble the Monitor Holder and Arm:** Rotate the black ring on the monitor holder to loosen it. Connect the monitor holder to the arm by sliding it into place and then tighten the black ring to secure it.
2. **Attach the Pole to the Base:** Rotate the black ring at the bottom of the pole to loosen it. Insert the pole into the designated hole on the large base. Tighten the black ring from underneath the base to firmly secure the pole.
3. **Attach the Monitor Arm to the Pole:** Slide the assembled monitor arm onto the pole. Adjust its height as needed and tighten the knob on the arm to fix its position.
4. **Insert and Tighten the Monitor:** Carefully insert the microscope monitor unit into the monitor holder on the arm. Ensure it is properly seated, then tighten the securing knob on the holder to prevent movement.
5. **Attach the Ring Light:** Place the ring light onto the lens cover of the microscope. Secure it by tightening the small screws on the ring light.

6. **Connect Power:** Connect the 5V adaptor to the microscope's power input and plug it into a power outlet.
7. **Insert Micro SD Card:** The 64GB Micro SD card is typically pre-installed. If not, insert it into the designated slot on the microscope unit.

Your browser does not support the video tag.

Video 4.1: This video demonstrates the step-by-step installation process for the TOMLOV TM4K Digital Microscope, including assembly of the stand, attachment of the monitor, and securing the ring light.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

Press and hold the 'Power' button on the display unit to turn the microscope on or off.

5.2 Focusing and Magnification

Adjust the height of the microscope unit on the pole and rotate the focus knob on the lens barrel to achieve a clear image. The TM4K Max offers up to 2000x magnification for observing intricate details. The 4x digital magnification feature allows for further enlargement of specific areas on the screen.



Figure 5.1: Examples of magnification levels, from 2x to 2000x, demonstrating the microscope's capability to reveal fine details on objects like coins.

5.3 Image and Video Capture

Use the controls on the display or the remote controller to capture 52MP still images or record 4K UHD videos. Captured media is saved to the installed 64GB Micro SD card.

5.4 External Display Options

The microscope supports simultaneous HDMI and USB output for a tri-screen real-time display. Connect an HDMI cable to an external monitor or a USB cable to a computer for larger viewing and enhanced monitoring.

6. MAINTENANCE AND CARE

Proper maintenance ensures the longevity and optimal performance of your microscope:

- **Cleaning:** Use a soft, lint-free cloth to clean the display screen and external surfaces. For the lens, use a specialized lens cleaning solution and cloth to avoid scratches.
- **Storage:** Store the microscope in a dry, dust-free environment when not in use. Avoid extreme temperatures and direct

sunlight.

- **Handling:** Always handle the microscope with care. Avoid dropping or subjecting it to strong impacts.
- **Power:** Disconnect the power adapter when the microscope is not in use for extended periods.

7. TROUBLESHOOTING

If you encounter issues with your TOMLOV TM4K Max, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No image on screen	Microscope not powered on; Lens cap on; Focus not adjusted.	Ensure power is connected and unit is on. Remove lens cap. Adjust focus knob.
Image blurry or unclear	Incorrect focus; Insufficient lighting; Dirty lens.	Adjust focus knob. Ensure ring light is on and properly positioned. Clean the lens.
Screen freezes or becomes unresponsive	Software glitch; Overheating; Low battery.	Restart the device by holding the power button. Ensure proper ventilation. Charge the battery. If persistent, contact support.
Cannot save images/videos	SD card full; SD card not inserted correctly; SD card corrupted.	Delete unnecessary files or replace SD card. Reinsert SD card. Format SD card (will erase data) or replace.

8. SPECIFICATIONS

Feature	Detail
Model Name	TOMLOV TM4K Max
Item Model Number	TM4K MAX
Product Dimensions	11 x 10 x 4 inches (11"L x 10"W x 4"H)
Item Weight	4 pounds
Display Screen	10.1" UHD IPS (1280 x 800P)
Video Resolution	4K UHD (3840x2160P)
Image Resolution	52MP
Magnification	Up to 2000x
Light Source Type	LED Ring Light
Connectivity	HDMI, USB
Storage	64GB Micro SD Card (included)
Power Source	5V Adaptor, 1 CR123A battery (included)
Material	Metal
Color	Black
Real Angle of View	178 Degrees

9. WARRANTY AND SUPPORT

TOMLOV products are designed for reliability and performance. For warranty information, technical support, or service inquiries, please refer to the warranty card included in your package or visit the official TOMLOV website. Keep your purchase receipt as proof of purchase for warranty claims.

For additional resources and frequently asked questions, you may visit the TOMLOV Store on Amazon: [TOMLOV Store](#)