

TOMLOV TM4K-AF Max

TOMLOV 4K Autofocus Microscope TM4K-AF Max User Manual

Model: TM4K-AF Max

Brand: TOMLOV

1. INTRODUCTION

The TOMLOV 4K Autofocus Microscope TM4K-AF Max is an advanced digital microscope designed for detailed observation and analysis. Featuring 4K UHD video, 52MP image capture, and an intelligent autofocus system, it is suitable for a wide range of applications including electronics repair, coin inspection, jewelry examination, and educational purposes. This manual provides essential information for the proper setup, operation, and maintenance of your microscope.

2. SAFETY INFORMATION

- Do not disassemble or modify the microscope. Unauthorized modifications can lead to malfunction or injury.
- Keep the device away from water and other liquids to prevent electric shock.
- Use only the provided power adapter and cables.
- Avoid direct exposure of the lens to strong light sources, as this may damage the sensor.
- Store the microscope in a clean, dry environment when not in use.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1x TM4K-AF Max 4K Autofocus Digital Microscope
- 1x Flex Boom Arm Stand
- 1x Ring Light
- 1x HDMI Cable

- 2x USB Cable
- 1x 64G SD Card (pre-installed)
- 1x User Manual (this document)



Figure 3.1: Main components of the TOMLOV TM4K-AF Max microscope system.

4. SETUP

4.1 Assembling the Microscope

1. Place the heavy base on a stable, flat surface.
2. Insert the vertical pillar of the flex boom arm stand into the designated slot on the base and secure it firmly.
3. Attach the microscope unit to the flex arm. Ensure the unit is securely clamped to allow for 360° rotation and horizontal

adjustment.

4. Carefully attach the ring light to the microscope lens assembly. Ensure the tightening screws align with the indentations for proper fit and focus.



Figure 4.1: Adjusting the flexible arm for optimal viewing angles.

Thumbnail & Accurate Tracking

Thumbnail for quick locating & digital zoom



Figure 4.2: The integrated ring light ensures even and non-reflective illumination of the subject.

4.2 Power Connection

Connect the provided power adapter to the microscope and plug it into a suitable power outlet. The microscope also includes a built-in battery for portable use.

4.3 SD Card Installation

The 64GB SD card is typically pre-installed. If not, locate the SD card slot on the microscope unit and insert the card until it clicks into place. This card is essential for saving images and videos.

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off

Press the power button on the microscope's display unit to turn it on. To power off, press and hold the power button until the display shuts down. The remote control can turn the microscope off, but not on.

5.2 Autofocus Functionality

The TM4K-AF Max features advanced autofocus with TOF distance sensing and AI technology. Simply place your object under the lens, and the microscope will automatically adjust focus for clear imaging. This eliminates the need for manual focus adjustments, saving time and ensuring sharp details.

Effortless 2-Second Autofocus

Delivers greater performance than manual focus



Figure 5.1: Effortless 2-second autofocus for superior performance.

Advanced Range-Finding Lens



Figure 5.2: Advanced Range-Finding Lens technology for precise focusing.

5.3 Magnification and Zoom

The microscope offers a magnification range from 2X to 2000X. Utilize the digital zoom function to further enlarge the image on the 10.1-inch IPS screen. The 4K resolution (3840x2160P for video, 52MP for images) ensures high clarity even at maximum zoom.

See More With **4K** On **10.1"**

52MP

Clearer

10.1"

Bigger Screen

IPS

Brighter



4K

Figure 5.3: Experience stunning 4K clarity on the 10.1-inch IPS display.

5.4 Image and Video Capture

Use the remote control to capture photos and record videos without touching the microscope, minimizing vibrations and ensuring stable shots. The captured media is saved directly to the pre-installed 64GB SD card.

5.5 External Display Connection

The microscope supports real-time tri-screen display via HDMI and USB outputs. Connect the microscope to an external monitor or computer using the provided HDMI or USB cables for a larger viewing experience. HDMI output supports 1080P 60fps, and USB output supports 3840x2160P 30fps (H264), 1080P 30fps, and 720P 60fps.

Real-Time Tri-Screen Display

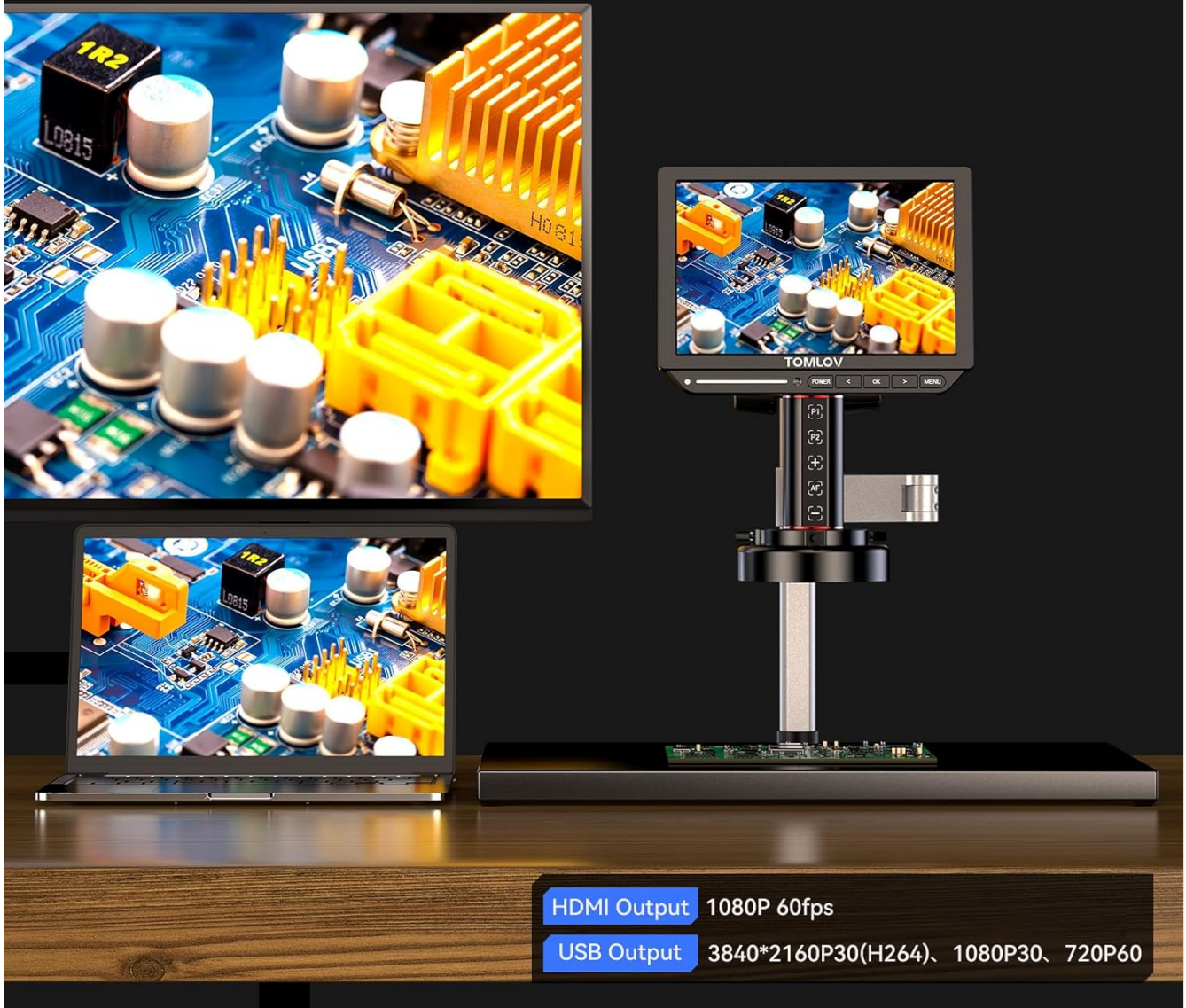


Figure 5.4: Real-time tri-screen display for enhanced viewing and collaboration.

5.6 Thumbnail and Grid Line Features

The microscope includes a thumbnail function for quick locating and digital zoom. It also features 8 DIY grid lines to enhance accuracy, particularly useful for soldering and precise measurements.



Figure 5.5: Thumbnail and accurate tracking features for detailed inspection.

6. MAINTENANCE

6.1 Cleaning

To clean the microscope, use a soft, dry cloth. For the lens, use a lens cleaning cloth and specialized lens cleaning solution. Avoid using abrasive cleaners or solvents that could damage the surfaces.

6.2 Storage

When not in use, store the microscope in a cool, dry place, away from direct sunlight and extreme temperatures. Ensure the lens is covered to prevent dust accumulation.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Blurry Image	Object not within autofocus range; Lens or screen dirty; Focus ring obstructed.	Adjust the distance of the object from the lens. Clean the lens and screen. Ensure no clamps or accessories are tightening the focus ring.
Microscope does not power on	Power cable not connected; Battery depleted; Power button not pressed correctly.	Check power connections. Charge the battery. Press and hold the power button on the display unit.
Cannot save images/videos	SD card full or not inserted correctly; SD card error.	Check SD card insertion. Format or replace the SD card.
Remote control not working	Battery depleted; Obstruction between remote and microscope; Remote not paired.	Replace remote battery. Ensure clear line of sight. Refer to pairing instructions in the full manual if applicable.

8. SPECIFICATIONS



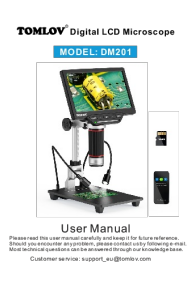


- **Model Name:** TM4K-AF Max
- **Display:** 10.1" IPS Screen (1280 x 800P)
- **Video Resolution:** 4K UHD (3840x2160P)
- **Image Resolution:** 52MP
- **Magnification:** 2X to 2000X
- **Autofocus Technology:** TOF Distance Sensing & AI Autofocus
- **Illumination:** Integrated Ring Light (LED)
- **Storage:** 64GB SD Card (included)
- **Output Ports:** HDMI, USB
- **Power:** 5 Volts (Lithium Ion battery included)
- **Product Dimensions:** 17.72 x 14.96 x 6.69 inches
- **Item Weight:** 5 pounds
- **Material:** Metal
- **Color:** Black

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official TOMLOV website or contact TOMLOV customer service directly. Protection plans are available for extended coverage.

Visit the official TOMLOV Store for more information and products: [TOMLOV Store](#)

Related Documents - TM4K-AF Max

 <p>The cover of the TOMLOV LCD Digital Microscope User Manual for Model DM201 SE. It features a photograph of the microscope setup, which includes a large LCD screen on a stand, a camera unit, and a control panel. The text on the cover includes the TOMLOV logo, the product name, model number, and the title 'User Manual'. There is also a small disclaimer at the bottom.</p>	<p>TOMLOV DM201 SE LCD Digital Microscope User Manual</p> <p>Comprehensive user manual for the TOMLOV DM201 SE LCD Digital Microscope, covering setup, operation, features, specifications, and troubleshooting for optimal use.</p>
 <p>The cover of the TOMLOV DM401/DM401 Pro/DM402 Pro User Manual. It shows the microscope setup with a large screen and a control panel. The text includes the TOMLOV logo, the product name, model numbers, and the title 'Инструкция по эксплуатации' (User Manual). A disclaimer is also present at the bottom.</p>	<p>Инструкция по эксплуатации цифровых микроскопов Tomlov DM401/DM401 Pro/DM402 Pro</p> <p>Полное руководство пользователя для цифровых микроскопов Tomlov DM401, DM401 Pro и DM402 Pro, охватывающее установку, эксплуатацию, функции, подключение к различным устройствам и настройки.</p>
 <p>The cover of the TOMLOV Digital LCD Microscope User Manual for Model DM201. It features a photograph of the microscope setup. The text includes the TOMLOV logo, the product name, model number, and the title 'User Manual'. A disclaimer is also present at the bottom.</p>	<p>TOMLOV DM201 Digital LCD Microscope User Manual</p> <p>User manual for the TOMLOV DM201 Digital LCD Microscope, covering installation, operation, menu settings, specifications, and troubleshooting.</p>
 <p>The cover of the TOMLOV Microscope Numérique LCD Manuel d'utilisation for Model DM201/DM201 Pro/DM202. It shows the microscope setup. The text includes the TOMLOV logo, the product name, model numbers, and the title 'Manuel d'utilisation'. A disclaimer is also present at the bottom.</p>	<p>TOMLOV Microscope Numérique LCD DM201/DM201 Pro/DM202 Manuel d'utilisation</p> <p>Manuel d'utilisation complet pour les microscopes numériques LCD TOMLOV DM201, DM201 Pro et DM202. Couvre l'installation, le fonctionnement, les fonctionnalités, les réglages, les spécifications et le dépannage.</p>
 <p>The cover of the TOMLOV Digital LCD Microscope Manual del usuario for Model DM201/DM201 Pro/DM202. It features a photograph of the microscope setup. The text includes the TOMLOV logo, the product name, model numbers, and the title 'Manual del usuario'. A disclaimer is also present at the bottom.</p>	<p>TOMLOV Digital LCD Microscope DM201/DM201 Pro/DM202 User Manual</p> <p>Comprehensive user manual for the TOMLOV Digital LCD Microscope models DM201, DM201 Pro, and DM202. This guide covers setup, operation, features, specifications, and troubleshooting for the digital microscope.</p>

TOMLOV Microscopio Digitale
MODELLO TM-DM9



Manuale di Istruzioni

Questo manuale descrive l'installazione, l'uso e la manutenzione del microscopio digitale.
È un documento confidenziale. Se viene copiato o distribuito senza permesso scritto dalla TOMLOV, il copiatore sarà responsabile di tutti i danni.
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[TOMLOV TM-DM9 Digital Microscope User Manual | Setup, Operation, Specifications](#)

Comprehensive user manual for the TOMLOV TM-DM9 Digital Microscope. Learn how to set up, operate, capture images/videos, connect to PC, and find specifications and FAQs.