

TOMLOV TM4K-AF Flex

TOMLOV Autofocus 4K Digital Microscope TM4K-AF Flex Arm User Manual

Model: TM4K-AF Flex | Brand: TOMLOV

1. INTRODUCTION

Thank you for choosing the TOMLOV Autofocus 4K Digital Microscope TM4K-AF Flex. This advanced digital microscope is designed for professionals and enthusiasts alike, offering stunning 4K UHD video, 52MP images, and an innovative autofocus system. Its versatile flex arm stand and multiple display options make it ideal for microchip soldering, coin observation, electronics repair, and educational purposes. This manual will guide you through the setup, operation, and maintenance of your new microscope.

2. WHAT'S IN THE BOX

- 1x TM4K-AF Flex 4K Autofocus Digital Microscope
- 1x Flex Arm Stand
- 1x 4" Stand
- 1x Ring Light
- 1x Soldering Mat
- 1x HDMI Cable
- 2x USB Cable
- 1x 64G Card
- 1x User Manual

3. SETUP INSTRUCTIONS

Follow these steps to assemble your TOMLOV TM4K-AF Flex Digital Microscope:

1. **Attach the C-Clamp:** Securely attach the C-clamp to the edge of your desktop. Ensure it is tightened firmly to provide a stable base for the stand.
2. **Assemble the Pole:** Insert the main pole into the C-clamp and tighten any securing screws.
3. **Mount the Flex Arm:** Slide the flex arm onto the main pole. Adjust its height and orientation as needed, then secure it in place.
4. **Attach the Microscope Unit:** Carefully slide the microscope unit onto the end of the flex arm. Ensure it is properly seated and secured.
5. **Install the Ring Light:** Attach the ring light to the microscope lens barrel. Connect its power cable if applicable.
6. **Connect Cables:** Connect the necessary power and data cables (HDMI, USB) to the microscope and your display devices.



Figure 3.1: Overview of the TOMLOV TM4K-AF Flex Digital Microscope setup with its flex arm stand and included soldering mat.

Video 3.1: Detailed guide on how to install the TM4K-AF Flex Digital Microscope, covering assembly of the stand and microscope unit.

4. OPERATING INSTRUCTIONS

4.1. Powering On/Off

Press and hold the 'POWER' button on the microscope unit or remote control to turn the device on or off. A green indicator light will confirm the power status.

4.2. Autofocus Function

The TM4K-AF Flex features advanced autofocus technology with a TOF sensor, ensuring precise and stable images. The AI-driven focus adapts to moving subjects, enhancing productivity.



Figure 4.1: The autofocus feature allows for quick and precise focusing, ideal for various tasks.

Video 4.1: Learn how to effectively use the automatic focus feature on your TM4K-AF Flex Microscope for clear observations.

4.3. Preset Focus (P1 & P2)

Easily observe uneven surfaces with the preset focus points. Set Focus Point 1 (P1) and Focus Point 2 (P2) by touching the corresponding buttons, then switch between them effortlessly for precise, rapid observations.

Video 4.2: Instructions on how to utilize the P1 and P2 preset focus buttons for quick adjustments on the TM4K-AF Flex

4.4. 4K Clarity with 8" UHD Screen

Experience stunning 4K UHD video and 52MP images directly on the impressive 8-inch LCD screen. Enjoy 1280 x 800P resolution with 100% sRGB and 99% NTSC color accuracy for detailed inspections.



Figure 4.2: The microscope supports true 4K video recording for exceptional clarity.

Upgraded Flex Arm Stand

Unlock Exceptional Viewing Angles & Flexibility



Figure 4.3: The 8-inch UHD screen provides a clear and vibrant display for magnified objects.

4.5. Upgraded Flex Arm Stand

The versatile flex arm stand allows for vertical, horizontal, and 360° rotation adjustments. Tailor angles with ease and fold it away for a tidy workspace, enhancing comfort and precision.

3 Screen Real-Time Display

Real-Time Microscope Display on Monitor, PC, and TV

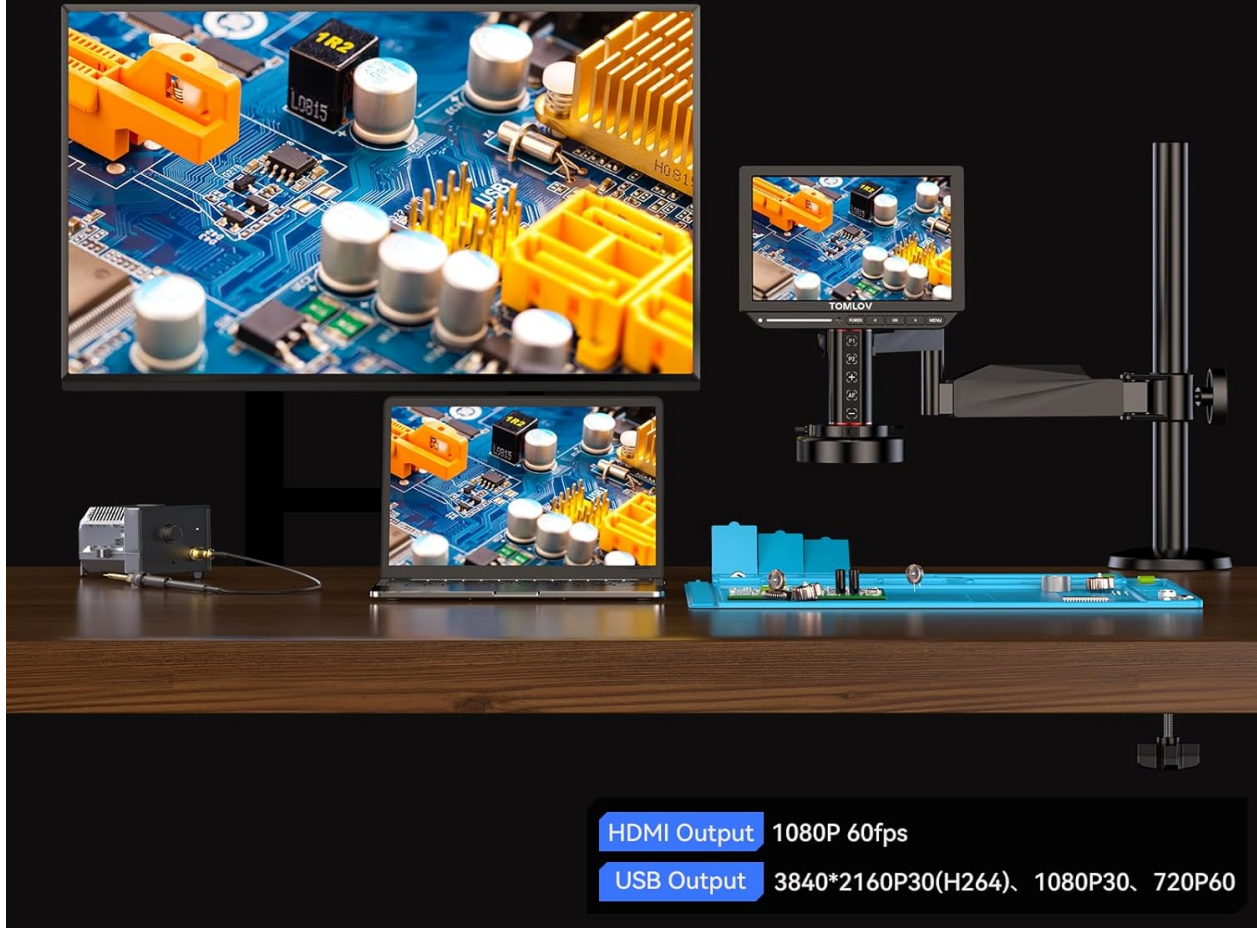


Figure 4.4: The upgraded flex arm stand offers extensive adjustability for optimal viewing angles.

4.6. 3 Screen Real-Time Display

Enhance your work with TOMLOV's tri-screen display. Simultaneous HDMI/USB output provides a detailed view across multiple screens (microscope, PC, and TV), ideal for labs, repairs, and education, ensuring precise monitoring and boosted productivity.

Impressive 8" UHD Screen



Figure 4.5: Connect your microscope to a monitor, PC, or TV for a larger, real-time view.

Video 4.3: Demonstration of the triple lens display capability of the TM4K-AF Flex Soldering Microscope.

4.7. 2000x Zoom Magnification

Discover minute details with the 2000x zoom capability. Easily magnify from 2X to 2000X with a fully-lit 8-inch HDMI screen. Adjust height and focus to explore intricate details effortlessly.

Unveil The Unseen

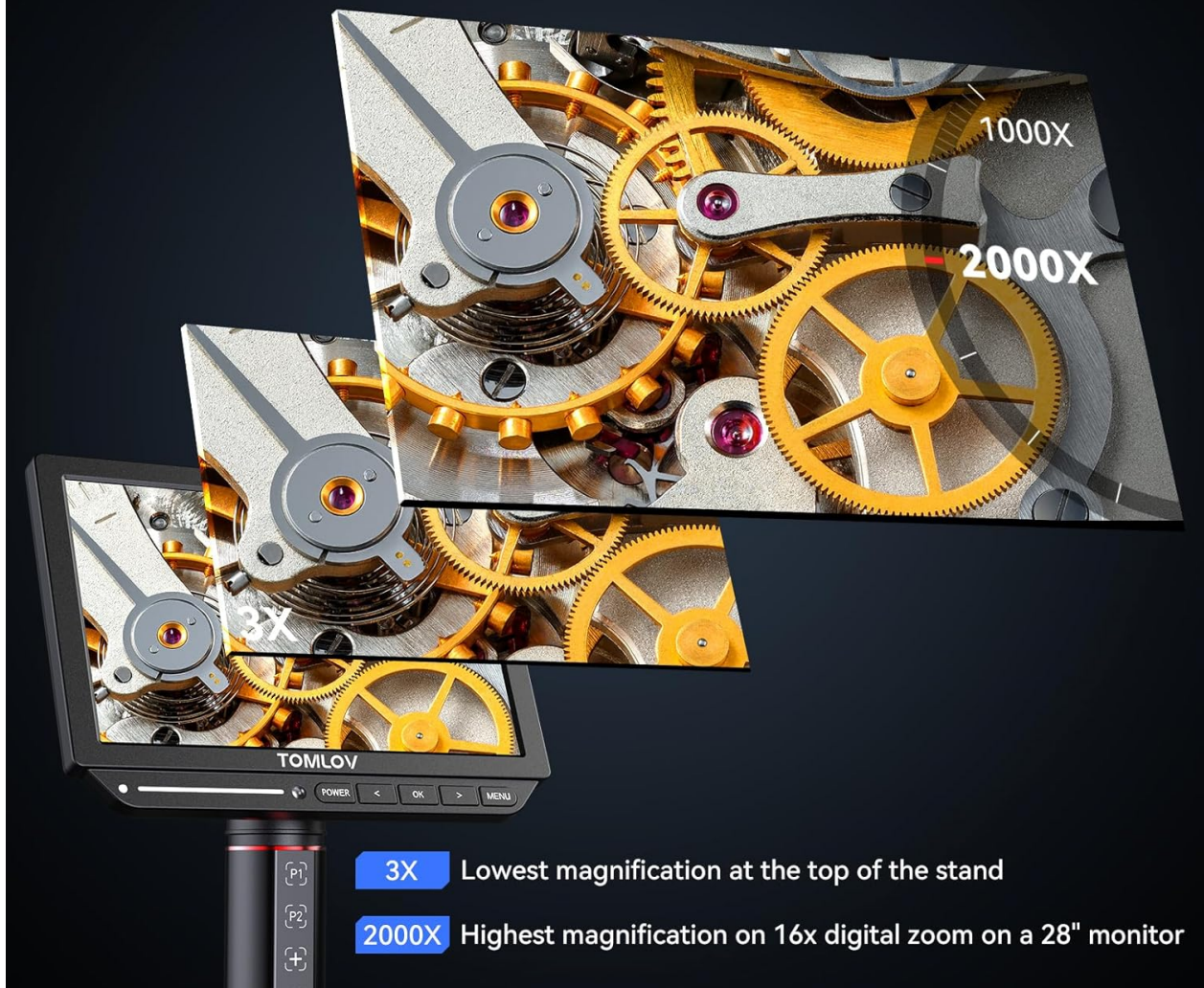


Figure 4.6: Explore objects at extreme magnifications up to 2000x.

4.8. Enhanced Illumination with Ring Light

The included ring light provides even brightness and uniform illumination, crucial for detailed work. It ensures clear visibility of intricate details in electronics, jewelry, and more.

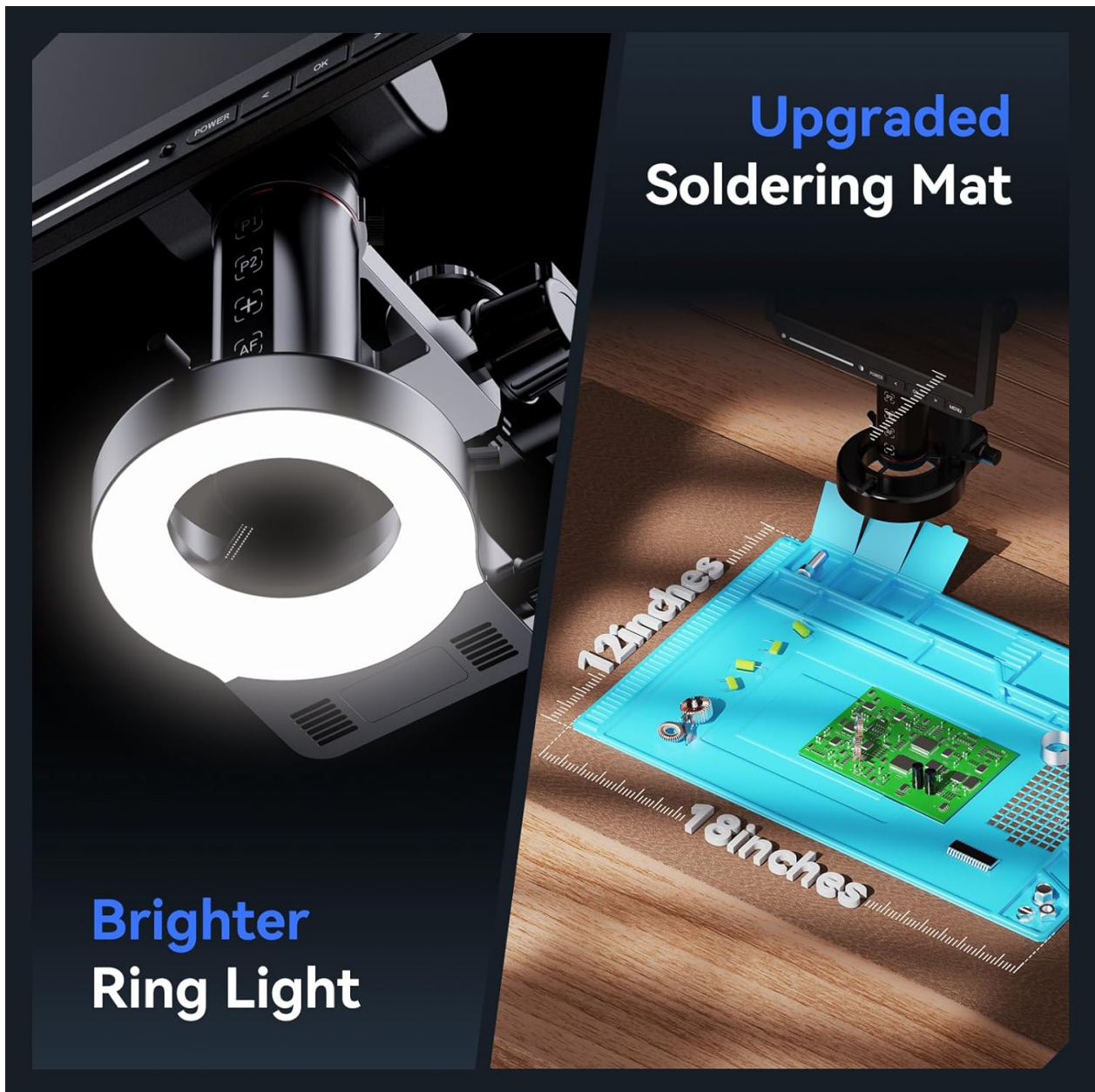


Figure 4.7: The bright ring light ensures optimal visibility for detailed inspection.

4.9. Recording and Storage

The microscope features a 64GB micro SD card for easy recording and storage of high-quality footage. Smart controls enable image capture, video recording, and zooming without touching the HDMI display for added convenience.

4.10. DIY Grid Lines

The TOMLOV AF microscope includes 8 DIY grid lines for improved accuracy in soldering tasks and precise measurements.

5. MAINTENANCE

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

- **Cleaning the Lens and Screen:** Use a soft, lint-free cloth specifically designed for optical surfaces. For

stubborn smudges, lightly dampen the cloth with a lens cleaning solution. Avoid abrasive materials or harsh chemicals.

- **Cleaning the Body:** Wipe the microscope body and stand with a dry or slightly damp soft cloth. Do not use solvents or strong detergents.
- **Storage:** When not in use, store the microscope in a clean, dry place away from direct sunlight and extreme temperatures. Cover the lens to protect it from dust.
- **Battery Care:** If the microscope has a rechargeable battery, follow the manufacturer's guidelines for charging and storage to maximize battery life.

6. TROUBLESHOOTING

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

- **No Power:**
 - Ensure the power adapter is securely connected to the microscope and a working power outlet.
 - Check if the power button is pressed and held for a few seconds to turn on the device.
 - If battery-powered, ensure the battery is charged.
- **Blurry Image / Autofocus Not Working:**
 - Ensure the object is within the microscope's working distance.
 - Press the 'AF' (Autofocus) button to initiate autofocus.
 - Check for any obstructions on the lens or sensor. Clean if necessary.
 - Ensure sufficient lighting on the object. Adjust the ring light brightness.
- **No Display on External Monitor/PC:**
 - Verify that the HDMI or USB cable is correctly connected to both the microscope and the external display.
 - Ensure the external display is set to the correct input source (HDMI, USB).
 - Check the resolution settings on the microscope and external display for compatibility.
- **Buttons Unresponsive:**
 - Restart the microscope by powering it off and on again.
 - If using the remote control, check its batteries.

7. SPECIFICATIONS



Feature	Detail
Brand	TOMLOV

Model Name	TM4K-AF Flex
Product Dimensions	14 x 5 x 15 inches
Item Weight	5 pounds
ASIN	B0D2K642P4
Batteries	1 Lithium Ion batteries required. (included)
Light Source Type	LED
Material	Metal
Color	Black
Real Angle of View	178 Degrees
Magnification Maximum	2000 x
Voltage	5 Volts
Manufacturer	TOMLOV
Country of Origin	China

8. WARRANTY AND SUPPORT

TOMLOV products are manufactured to the highest quality standards. For warranty information, technical support, or service inquiries, please refer to the warranty card included with your product or visit the official TOMLOV website. Please retain your proof of purchase for any warranty claims.

Related Documents - TM4K-AF Flex

 <p>TOMLOV LCD Digital Microscope Model: DM201 SE User Manual</p> <p>Please read this user manual carefully and keep this book for reference. Should you encounter any problems, please consult us for help. Most technical questions can be answered through our knowledge base. Customer service: support@tomlov.com</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>TOMLOV Digital LCD Microscope MODEL: DM201 User Manual</p> <p>Please read this user manual carefully and keep it for future reference. Should you encounter any problems, please consult us for help. Most technical questions can be answered through our knowledge base. Customer service: support_usa@tomlov.com</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>



TOMLOV Microscope Numérique LCD DM201/DM201 Pro/DM202 Manuel d'utilisation

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.



TOMLOV Digital LCD Microscope DM201/DM201 Pro/DM202 User Manual

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.



Инструкция по эксплуатации цифровых микроскопов Tomloy DM401/DM401 Pro/DM402 Pro

Полное руководство пользователя для цифровых микроскопов Tomlov DM401, DM401 Pro и DM402 Pro, охватывающее установку, эксплуатацию, функции, подключение к различным устройствам и настройки.



[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.