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## TOMLOV DM9B

# TOMLOV DM9B 7" Digital Microscope User Manual

Model: DM9B | Brand: TOMLOV

## INTRODUCTION

The TOMLOV DM9B Digital Microscope is a versatile and powerful tool designed for detailed observation and analysis. Featuring a 7-inch rotatable FHD screen, 12MP ultra-precise focusing camera, and up to 1200X magnification, it is ideal for a wide range of applications including coin collecting, soldering, PCB repair, and general scientific observation. This manual provides comprehensive instructions for setting up, operating, and maintaining your DM9B Digital Microscope.

## SAFETY INFORMATION

- Keep the device away from water and high humidity to prevent electric shock.
- Do not attempt to disassemble or modify the microscope. Refer all servicing to qualified personnel.
- Use only the specified power adapter (5V) to avoid damage.
- Avoid direct exposure of the lens to strong light sources, which may damage the sensor.
- Ensure the microscope is placed on a stable, level surface to prevent tipping.
- Keep out of reach of small children to prevent accidental ingestion of small parts.

## PACKAGE CONTENTS

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

- 7-Inch Digital Microscope x1
- 32GB Micro SD Card x1
- Adjustable Aluminum Alloy Stand x1
- USB Cable x1
- Detailed English User Manual x1

# What You Get



Image: All components included in the TOMLOV DM9B Digital Microscope package, including the microscope monitor, base, bracket, remote control, USB cable, 32GB SD card, light barrier, and user manual.

## PRODUCT OVERVIEW

The TOMLOV DM9B Digital Microscope features a robust design with key components for optimal performance.



Image: The TOMLOV DM9B Digital Microscope fully assembled, showing the 7-inch LCD screen, microscope lens, adjustable stand, base, two gooseneck LED lights, and the wired remote control.

## Key Features:

- **7-Inch Rotatable FHD Screen:** Provides a clear, high-definition view of magnified objects. The screen can be rotated up to 90 degrees for ergonomic viewing.
- **12MP Ultra-Precise Focusing Camera:** Captures high-quality images and videos.
- **5X-1200X Magnification:** Allows for detailed observation of microscopic details. Actual magnification varies based on screen size and object distance.
- **8 LED Fill Lights + 2 Gooseneck Lights:** Ensures optimal illumination of the specimen.

- **Aluminum Alloy Construction:** Provides durability and stability for various applications.
- **PC View Compatibility:** Connects to Windows and macOS for larger screen viewing and data analysis.
- **32GB Micro SD Card:** Included for convenient storage of photos and videos.

## Ergonomic Design

Provides the most comfortable observation angle

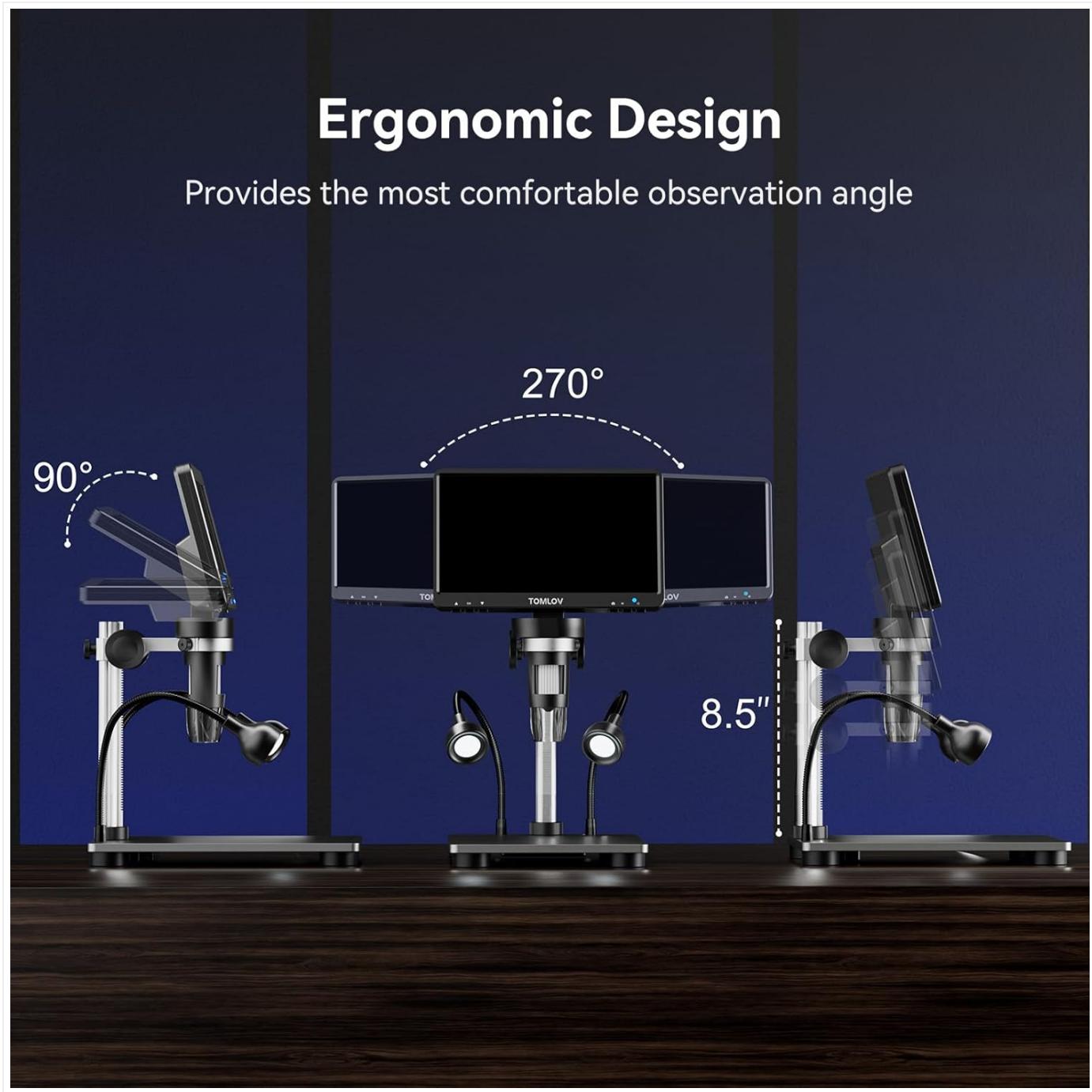


Image: Illustration of the ergonomic design, demonstrating the 90-degree tilt and 270-degree swivel capabilities of the 7-inch LCD screen for comfortable observation angles.

### SETUP

Follow these steps to assemble and prepare your TOMLOV DM9B Digital Microscope for use:

1. **Assemble the Stand:** Attach the adjustable aluminum alloy stand to the base. Ensure all screws are tightened securely.
2. **Mount the Microscope Monitor:** Slide the microscope monitor unit onto the bracket on the stand. Secure it in place using the locking knob.
3. **Connect Gooseneck Lights:** Insert the two gooseneck LED lights into the designated ports on the base. Adjust their position as needed.

4. **Insert SD Card:** Locate the TF (Micro SD) card slot on the side of the monitor. Insert the included 32GB Micro SD card until it clicks into place.
5. **Power Connection:** Connect the USB cable to the DC5V port on the microscope monitor and plug the other end into a suitable 5V USB power adapter (not included) or a computer USB port.
6. **Initial Power On:** Press and hold the power button on the microscope monitor to turn on the device.



Image: Visual guide showing the four basic steps to operate the microscope: 1. Turn on the microscope, 2. Adjust the distance between the object and the microscope lens, 3. Rotate the focus wheel to focus, 4. Observe object details on the HD screen.

## OPERATING INSTRUCTIONS

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### Basic Operation

- **Power On/Off:** Press and hold the power button on the monitor for 3 seconds to turn the device on or off.
- **Screen Rotation:** The 7-inch LCD screen can be tilted up to 90 degrees and swiveled for optimal viewing comfort.

### Magnification and Focusing

To achieve clear images:

1. Place the object you wish to observe on the base plate directly under the microscope lens.
2. Adjust the height of the microscope unit on the stand to change the initial magnification and bring the object roughly into view.
3. Rotate the focusing wheel on the microscope lens until the image on the screen is sharp and clear.

# 5X-1200X Magnification

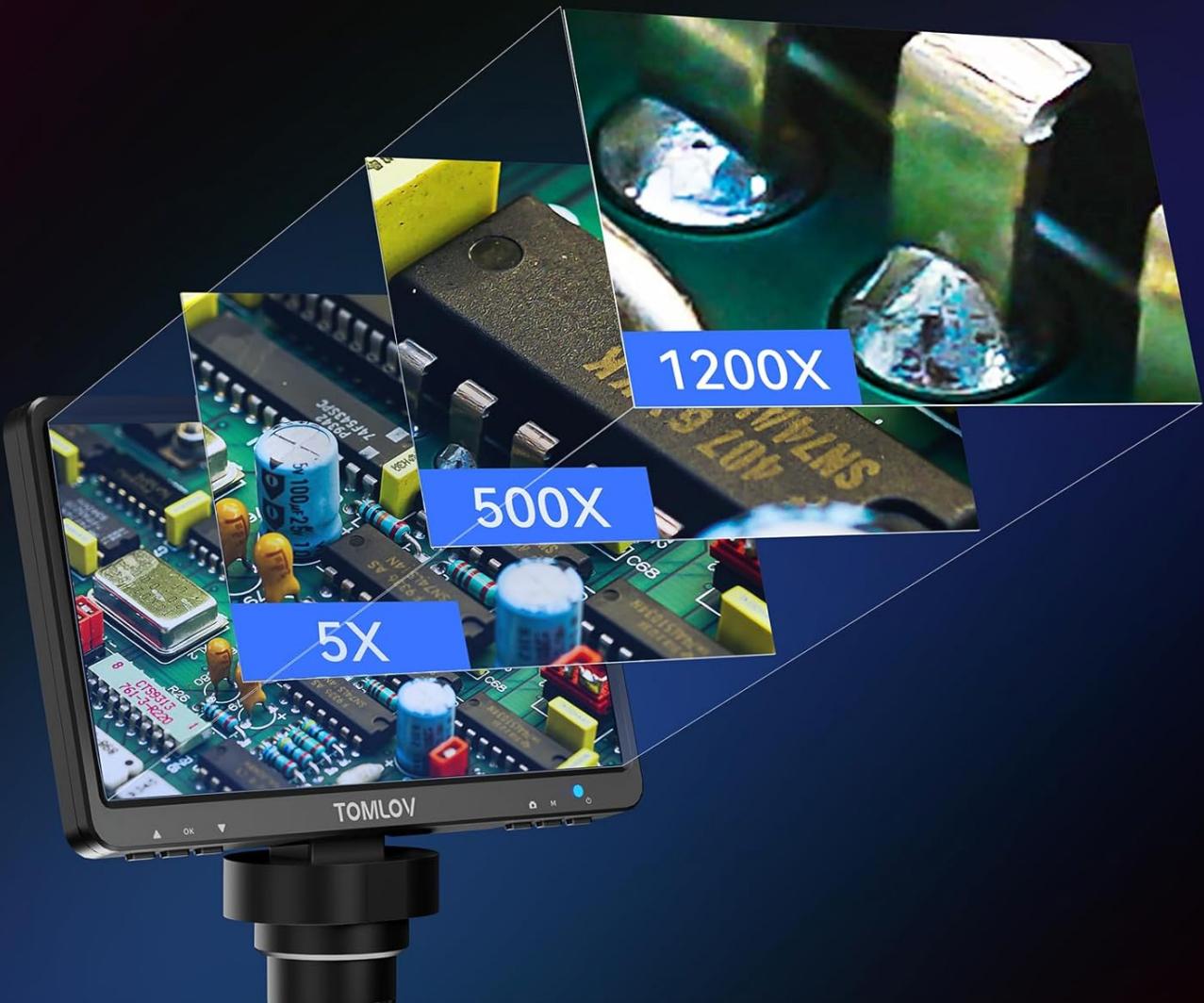


Image: A visual representation demonstrating the varying magnification levels (5X, 500X, 1200X) achievable with the TOMLOV DM9B Digital Microscope, showing increasing detail of a circuit board.

## Lighting Adjustment

The microscope is equipped with 8 adjustable LED fill lights around the lens and 2 flexible gooseneck lights for optimal illumination.

- Use the light adjustment buttons on the monitor or remote control to increase or decrease the brightness of the main LED lights.
- Manually adjust the position of the gooseneck lights to eliminate shadows and provide targeted illumination.

# 8 Adjustable LED Fill Lights + 2 Gooseneck Lights

Provides a fully lit viewing experience



Image: A demonstration of the 8 adjustable LED fill lights and 2 gooseneck lights, showing different brightness levels from off to 100% illumination on a coin.

## Photo and Video Capture

The DM9B allows you to capture high-resolution photos and videos directly to the included 32GB Micro SD card.

- Press and hold the Menu button for 3 seconds to switch between "Photographing," "Video Recording," and "Playback" modes.
- In Photographing mode, press the OK button to take a photo.
- In Video Recording mode, press the OK button to start/stop recording.
- Use the remote control for convenient capture without disturbing the microscope.



Image: Display illustrating the video recording mode and photo capture mode on the microscope screen, highlighting the inclusion of a 32GB SD card for storage.

Your browser does not support the video tag.

Video: An instructional video demonstrating how to use the TOMLOV DM9 Digital Microscope, covering assembly, basic operation, and various applications.

### PC Connection (PC View)

For a larger viewing experience and easier data sharing, connect your microscope to a PC or laptop.

- Connect the microscope to your computer using the provided USB cable.
- No additional software is required. For Windows, use the default "Windows Camera" app. For macOS, use "Photo Booth."
- The microscope will function as a webcam, allowing you to view the live feed on your computer screen.

# Connect to a PC or Laptop

Real-Time



USB HD

output for Windows & macOS



Image: The TOMLOV DM9B Digital Microscope connected via USB to a laptop, demonstrating the PC view feature for real-time observation on a larger screen.

## MAINTENANCE

- **Cleaning the Lens and Screen:** Use a soft, lint-free cloth specifically designed for optical surfaces. For stubborn smudges, a small amount of lens cleaning solution can be applied to the cloth (not directly to the lens/screen).
- **Cleaning the Body:** Wipe the microscope body with a dry, soft cloth. Avoid using abrasive cleaners or solvents.
- **Storage:** Store the microscope in a cool, dry place, away from direct sunlight and extreme temperatures. If not in use for extended periods, remove the Micro SD card and ensure the device is powered off.
- **Battery Care:** The microscope contains a rechargeable Lithium Ion battery. For optimal battery life, avoid fully discharging the battery frequently and store the device with a partial charge if not used for a long time.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
No image on screen.	Device not powered on; loose cable connection; screen brightness too low.	Ensure power button is pressed; check USB cable connection; adjust screen brightness.
Image is blurry.	Incorrect focus; object too far/close; dirty lens.	Adjust focusing wheel; adjust microscope height; clean the lens.
Cannot capture photos/videos.	SD card not inserted or full; incorrect mode selected.	Ensure SD card is inserted correctly and has free space; switch to Photographing or Video Recording mode.
PC view not working.	USB cable issue; incorrect software/app used.	Try a different USB port/cable; ensure you are using "Windows Camera" (Windows) or "Photo Booth" (macOS).
Lights are not working.	Lights turned off or brightness set to minimum; loose connection.	Adjust light brightness; check gooseneck light connections.

## SPECIFICATIONS

Feature	Detail
Model Name	DM9B
Screen Size	7-inch FHD LCD
Camera Resolution	12MP
Magnification Range	5X to 1200X
Light Source	8 Adjustable LED Fill Lights + 2 Gooseneck Lights
Material	Aluminum Alloy (Base, Stand, Holder)
Storage	32GB Micro SD Card (included)
PC Compatibility	Windows, macOS (via USB)
Power Input	5 Volts
Battery	1 Lithium Ion battery (included)
Item Weight	2.12 pounds
Package Dimensions	9.69 x 8.31 x 3.5 inches

## WARRANTY AND SUPPORT

TOMLOV products are designed and manufactured to the highest quality standards. For information regarding warranty coverage, technical support, or service inquiries, please refer to the contact information provided on the official TOMLOV website or the product packaging. Keep your purchase receipt as proof of purchase for warranty claims.



