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WnewTools G600 LCD Digital Microscope

G600 Digital LCD Microscope User Manual

Model: G600 LCD Digital Microscope | Brand: WnewTools

INTRODUCTION

The WnewTools G600 Digital LCD Microscope is a versatile and powerful tool designed for detailed observation and analysis of microscopic objects. Featuring a 4.3-inch HD LCD display and 1-600x continuous magnification, it is suitable for various applications including circuit board inspection, textile inspection, watch repair, jewelry appraisal, and biological observation. This manual provides essential information for setting up, operating, and maintaining your G600 microscope.



Figure 1: G600 Digital LCD Microscope in operation, showing a magnified circuit board on its display.

PACKAGE CONTENTS

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

- 1 x G600 LCD Digital Microscope
- 1 x EU Plug Power supply (Note: Adapter type may vary by region)
- 1 x Data line (USB cable)
- 1 x Aluminum Alloy Stand
- 1 x User's Manual (this document)

PRODUCT COMPONENTS

Familiarize yourself with the main components of the G600 Digital LCD Microscope:

1. **LCD Display:** 4.3-inch screen for viewing magnified images.
2. **Control Buttons:** Power, Menu, Up, Down, OK, and Mode buttons for navigation and settings.
3. **Focus Knob:** Used to adjust the focus for clear images.
4. **Magnification Lens:** The primary optical component for magnification.
5. **LED Illumination:** Adjustable high-brightness 8 LEDs surrounding the lens for illuminating the specimen.

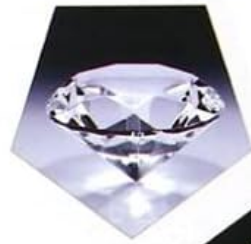
- 6. **Micro SD Card Slot:** For inserting a Micro SD card (up to 64GB, not included) to save images and videos.
- 7. **USB Port:** For power supply and data transfer.
- 8. **Aluminum Alloy Stand:** Provides stable support and allows for height adjustment of the microscope.
- 9. **Height Adjustment Knob:** On the stand, for precise vertical positioning of the microscope.



Figure 2: Front view of the G600 microscope, highlighting the LCD display and control panel.

INNOVATION BEYOND IMAGINATION

Continuous zoom system & Adjustable light



Industry

Education

Collection / Research

Biological / mineral



1-600X

Super battery
Working 6 hours

PORTABLE LCD DIGITAL MICROSCOPE

Figure 3: Side view illustrating the focus knob and the height adjustment mechanism of the stand.

SETUP

1. Assembly

1. Carefully unbox all components.
2. Attach the microscope unit to the aluminum alloy stand. Ensure it is securely fastened using the provided screws or locking mechanism.
3. Adjust the height of the microscope on the stand using the height adjustment knob to a comfortable working position.

2. Powering On

1. Connect the provided power supply to the microscope's USB port and plug it into a wall outlet. The device can also operate on its built-in Li-ion battery for approximately 6 hours.
2. Press and hold the Power button (usually located on the front panel below the display) for a few seconds until the LCD screen illuminates.

3. Inserting Micro SD Card (Optional)

1. Locate the Micro SD card slot on the side or back of the microscope.
2. Insert a Micro SD card (up to 64GB, not included) into the slot until it clicks into place. Ensure the card is inserted in the correct orientation.
3. The microscope will automatically detect the card.

OPERATING INSTRUCTIONS

1. Placing a Specimen

Place the object you wish to observe directly on the base plate of the stand, beneath the microscope lens. Ensure it is centered for optimal viewing.



Figure 4: Microscope set up with a circuit board on the base for observation.

2. Adjusting Magnification and Focus

- **Magnification:** The G600 offers 1-600x continuous magnification. Adjust the height of the microscope using the height adjustment knob on the stand to change the magnification level. Moving the microscope closer to the specimen increases magnification.
- **Focus:** Rotate the large focus knob located on the side of the microscope unit until the image on the LCD display is

clear and sharp.

3. Adjusting LED Illumination

The microscope is equipped with 8 adjustable high-brightness LEDs. Use the dedicated light adjustment button (often labeled with a light bulb icon or integrated into the menu) to increase or decrease the brightness for optimal viewing conditions.

4. Capturing Images and Videos

If a Micro SD card is inserted:

- **Photo Mode:** Press the "Mode" button to switch to photo mode. Press the "OK" button to capture a still image.
- **Video Mode:** Press the "Mode" button again to switch to video recording mode. Press the "OK" button to start recording, and press it again to stop.
- **Playback:** Use the "Mode" button to enter playback mode to review captured images and videos. Use the Up/Down buttons to navigate.

5. Language Settings

To change the display language:

1. Press the "Menu" button to access the settings menu.
2. Navigate using the Up/Down buttons to find the "Language" option.
3. Press "OK" to select, then use Up/Down to choose your desired language (e.g., English, Spanish, Japanese, Chinese).
4. Press "OK" to confirm your selection.



Figure 5: Examples of objects that can be observed and magnified with the G600 microscope.

SPECIFICATIONS

Feature	Specification
Display	4.3 inch HD LCD display

Feature	Specification
Resolution	1080P, 720P, VGA
Pixel	HD 3.6MP CCD
Magnification	1-600x continuous
Object Distance	20mm - infinity
Illumination	Adjustable high brightness 8 LEDs
Storage Support	Up to 64G Micro SD card (Not included)
Battery	Built-in Li-ion battery
Continuous Working Time	Approximately 6 hours
Auto Turn Off Function	Yes
Material	Aluminum (Stand)
Item Weight	1.68 pounds
Package Dimensions	8.66 x 5.91 x 3.15 inches
Model Number	PANN1152799
UPC	769902938452



4.3 inch HD LCD
Multi-functional gimbal
HD 3.6 MP image sensor
Continuous magnification
Supper battery /Working for 6+ hour



Made in China

Figure 6: Visual representation of key specifications and features of the G600 microscope.

MAINTENANCE

- **Cleaning the Lens and Display:** Use a soft, lint-free cloth specifically designed for optical surfaces to gently wipe the lens and LCD display. Do not use abrasive cleaners or solvents.
- **Cleaning the Body:** Wipe the microscope body and stand with a dry or slightly damp soft cloth.
- **Battery Care:** To prolong battery life, avoid fully discharging the battery frequently. Charge the device regularly, especially if it will be stored for an extended period.
- **Storage:** Store the microscope in a clean, dry, and dust-free environment when not in use. Keep it away from direct sunlight and extreme temperatures.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Microscope does not power on.	Low battery or power connection issue.	Ensure the power adapter is securely connected and plugged into a working outlet. Charge the battery for at least 30 minutes before attempting to power on again.
Image on display is blurry.	Incorrect focus or object distance.	Rotate the focus knob until the image becomes clear. Adjust the height of the microscope on the stand to find the optimal object distance.

Problem	Possible Cause	Solution
Screen is too dark or too bright.	LED illumination not adjusted correctly.	Use the LED light adjustment button to increase or decrease the brightness.
Cannot save images/videos.	No Micro SD card inserted, card full, or card error.	Insert a compatible Micro SD card (up to 64GB). Check if the card is full and delete unnecessary files, or try a different card. Ensure the card is formatted correctly (FAT32).
Display shows "Card Error".	Micro SD card is corrupted or incompatible.	Try reformatting the Micro SD card (this will erase all data). If the issue persists, try a different Micro SD card.

WARRANTY AND SUPPORT

For information regarding warranty coverage, technical support, or service, please refer to the warranty card included with your product or visit the official WnewTools website. Contact details for customer support are typically provided on the manufacturer's packaging or website.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

