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WnewTools PANN1553823

WnewTools G1200 Digital Microscope User Manual

Model: PANN1553823

1. INTRODUCTION

Thank you for choosing the WnewTools G1200 Digital Microscope. This manual provides detailed instructions for setting up, operating, and maintaining your new microscope. The G1200 offers a 7-inch HD LCD display, 12-megapixel resolution, and a continuous magnification system from 1X to 1200X, making it suitable for a wide range of applications.



Figure 1.1: The WnewTools G1200 Digital Microscope, showcasing its large LCD screen and stable base, with a circuit board visible on the display.

Package Contents:

- 1 x G1200 Microscope Unit
- 1 x Adjustable Stand and Base
- 1 x USB Cable (for power/charging)
- 1 x English User Manual (this document)

2. KEY FEATURES

The G1200 Digital Microscope is designed with several advanced features to enhance your viewing and analysis experience:

- **Continuous Magnification:** Unlike traditional microscopes with fixed magnification levels, the G1200 offers a continuous 1X to 1200X magnification system, allowing for precise adjustment to find the optimal view.
- **High-Resolution Display:** Equipped with a 7-inch HD LCD display (1024x600 resolution) for clear and detailed viewing.
- **12-Megapixel Sensor:** Captures high-quality images and videos with excellent clarity.
- **Adjustable Angle Design:** The microscope head can be angled to reduce reflection, which is particularly beneficial when inspecting reflective surfaces like PCBs or metal components.
- **Built-in Rechargeable Battery:** Features a large 3000mAh lithium battery, providing approximately 4-5 hours of continuous operation (when not recording video).
- **Integrated LED Illumination:** Eight high-brightness LED lamps provide ample lighting for various subjects, with a continuous service life of up to 100,000 hours.
- **MicroSD Card Support:** Supports MicroSD cards from 1GB to 128GB (Class 10+ speed recommended) for storing captured images and videos.



Figure 2.1: The G1200 microscope highlighting its continuous 1-1200X magnification capability and 12MP HD digital imaging.



Figure 2.2: The adjustable design of the G1200 microscope, allowing the screen and lens assembly to tilt for optimal viewing angles and reduced glare.

This is a digital microscope with continuous zoom ,and it has a wide range of viewing options compared to other microscopes, ranging from 1 to 1200 times magnification, and always finding a suitable multiple for you .

Continuous
1-1200X

HD 12 MP Digital Microscope



Figure 2.3: The G1200 microscope equipped with two flexible LED lights, providing additional illumination for detailed observation.

3. SETUP AND ASSEMBLY

Follow these steps to set up your G1200 Digital Microscope:

1. **Unpack Components:** Carefully remove all components from the packaging. Ensure you have the microscope unit, stand, base, and USB cable.
2. **Assemble the Stand:** Attach the vertical stand to the base using the provided screws (if not pre-assembled). Ensure it is stable and secure.

3. **Mount the Microscope Unit:** Slide the microscope unit onto the vertical stand. Use the adjustment knob on the stand to secure it at the desired height.
4. **Power On/Charge:** Connect the microscope to a power source using the Micro USB cable. The built-in battery will begin charging. Press and hold the power button to turn on the device.
5. **Insert MicroSD Card:** Locate the MicroSD card slot on the side or back of the microscope unit. Insert a Class 10+ MicroSD card (1-128GB) with the contacts facing down until it clicks into place. This is necessary for saving images and videos.



Figure 3.1: Front view of the G1200 microscope, displaying the control buttons and adjustment knobs for operation.

4. OPERATING INSTRUCTIONS

4.1 Basic Operation

- **Power On/Off:** Press and hold the power button (usually marked with a power symbol) to turn the microscope on or off.
- **Focus Adjustment:** Use the large focus knob on the side of the microscope unit to adjust the clarity of the image on the screen.
- **Magnification Adjustment:** The G1200 features continuous magnification. Adjust the distance between the lens and the object, and fine-tune with the focus knob to achieve the desired magnification.
- **LED Brightness:** Rotate the light brightness regulator (often a small wheel or knob) to adjust the intensity of the built-in LED lights.

4.2 Menu Navigation

Use the navigation buttons (e.g., Menu, Up, Down, OK) to access and adjust settings.

- **Menu Button:** Press to enter the main menu.
- **Up/Down Buttons:** Navigate through menu options.
- **OK Button:** Select an option or confirm a setting.

4.3 Video Mode Settings

In video mode, you can adjust the following:

- **Resolution:** Select from 1080FHD, 720P, or VGA.
- **HDR (High Dynamic Range):** Turn On/Off. When enabled, the video recording function may automatically activate if movement is detected under the lens.

4.4 Photo Mode Settings

In photo mode, you can customize image capture:

- **Photograph Delay:** Set a timer for single shot, 2 seconds, 5 seconds, or 10 seconds.
- **Photo Pixels:** Choose image resolution from 1.3M, 2M, 5M, 8M, 10M, or 12M.
- **Continuous Shooting:** Capture 3 consecutive shots.
- **Photo Quality:** Select Quality, Standard, or Compression.
- **Sharpness:** Adjust image sharpness to Strong, Standard, or Soft.
- **Color:** Apply color effects: Nothingness, Black and White, or Nostalgia.
- **ISO:** Set sensitivity to Automatic, 100, 200, or 400.

4.5 System Settings

Access the system menu to configure general device settings:

- **Screen Saver:** Off, 30 sec, 1 min, 2 min.
- **Automatic Shutdown:** Off, 3 minutes, 5 minutes, 10 minutes.
- **Hz Light Source:** 50 Hz or 60 Hz.
- **Language Options:** Choose from 16 available languages.

5. SPECIFICATIONS

Feature	Specification
Model	G1200
Display Screen	7-inch HD LCD (1024x600)
Pixel	HD 12 Megapixel
Magnification	1-1200X Continuous Amplification System
Object Distance	10mm to Unlimited
Power Source	DC interface (Micro USB) / Built-in 3000mAh Lithium Battery
Battery Life	Approx. 4-5 hours (non-video recording)
Storage	MicroSD card slot (supports 1-128GB, Class 10+)
Illumination	8 Highlight LED Lamps
Video Resolution	1080FHD, 720P, VGA
Photo Resolution	1.3M, 2M, 5M, 8M, 10M, 12M
Item Weight	2.2 pounds
Package Dimensions	8.66 x 5.91 x 3.15 inches
Material	Metal, Plastic

6. APPLICATIONS

The WnewTools G1200 Digital Microscope is versatile and can be used in various fields:

- **Electronics Repair:** Ideal for inspecting solder joints, tiny components, and circuit board defects.
- **Jewelry and Gemstone Identification:** Examine intricate details of jewelry, hallmarks, and gemstone inclusions.
- **Insect Observation:** Observe the fine structures of insects and other small organisms.
- **Print Inspection:** Analyze print quality, paper fibers, and ink distribution.
- **Currency and Document Verification:** Inspect security features on banknotes and official documents.
- **Educational Purposes:** A valuable tool for students and hobbyists for learning and exploring the microscopic world.

Angle-adjustable

- To solves the problem of high reflection by the LEDs lights



The microscope has a longer range than the others because it has a certain amount of room to operate. It is very convenient to use tweezers, electric soldering iron and others under your microscope.

Figure 6.1: Various application scenarios for the G1200 digital microscope, demonstrating its utility in diverse fields from technical inspection to educational exploration.

7. MAINTENANCE

Proper care and maintenance will ensure the longevity and optimal performance of your microscope:

- **Cleaning the Lens:** Use a soft, lint-free cloth specifically designed for optical lenses to gently wipe the microscope lens. For stubborn smudges, a small amount of lens cleaning solution can be applied to the cloth, not directly to the lens.
- **Cleaning the Screen:** Use a soft, dry microfiber cloth to clean the LCD screen. Avoid using abrasive cleaners or solvents.
- **General Cleaning:** Wipe the body of the microscope and stand with a soft, damp cloth. Ensure no liquid enters the electronic components.
- **Storage:** When not in use, store the microscope in a clean, dry, and dust-free environment. Avoid extreme temperatures and direct sunlight.
- **Battery Care:** For long-term storage, it is recommended to charge the battery to about 50% every few months to maintain battery health.

8. TROUBLESHOOTING

If you encounter issues with your G1200 Digital Microscope, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Microscope does not power on	Low battery or no power connection	Connect the microscope to a power source using the USB cable and allow it to charge. Ensure the power button is pressed and held.
Image is blurry or out of focus	Incorrect focus adjustment or object distance	Adjust the large focus knob. Ensure the object is within the working distance (10mm to unlimited) of the lens.
Screen is blank or dark	Screen saver active, low brightness, or power issue	Press any button to wake the screen. Check LED brightness regulator. Ensure the device is powered on and charged.
Cannot save images/videos	No MicroSD card inserted, card full, or card error	Insert a compatible MicroSD card. Check card storage and delete unnecessary files. Format the card if necessary (this will erase all data).
Image has glare/reflection	Light source angle or object reflectivity	Adjust the angle of the microscope head. Reduce LED brightness or reposition external lighting.

9. WARRANTY INFORMATION

Specific warranty details for the WnewTools G1200 Digital Microscope are not provided in this manual. Please refer to the product packaging or the retailer's website for information regarding warranty coverage and terms.

10. CUSTOMER SUPPORT

For further assistance, technical support, or inquiries not covered in this manual, please contact WnewTools customer service through the contact information provided on the product packaging or the official WnewTools website.

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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