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FLYLINKTECH MS100 USB Digital Microscope and Endoscope User Manual

Model: MS100

1. INTRODUCTION

The FLYLINKTECH MS100 is a versatile 2-in-1 USB digital microscope and endoscope designed for detailed visual inspection. It offers up to 200x magnification and features a waterproof camera head (IP67), making it suitable for various environments and applications. This device is compatible with Windows, Mac, and Android operating systems, allowing for image capture and video recording.



Image 1.1: The FLYLINKTECH MS100 USB Digital Microscope and Endoscope with its adjustable stand, highlighting its HD capability, 200x magnification, and compatibility with Microsoft Windows, Android, and Mac operating systems.

2. PACKAGE CONTENTS

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

- 1x USB Digital Microscope/Endoscope
- 1x Adjustable Stand
- 3x Lens Kits (Free Focus Cap, Ear Cavity Sleeve, Nose Cavity Sleeve)
- 1x Side-view Mirror
- 1x Transparent Sight Glass Shield
- 1x User Manual



Image 2.1: An overview of the FLYLINKTECH MS100 package contents, including the microscope, stand, various accessory tips, USB cable, and user manual.



Free Focus Cap



Ear Cavity Sleeve



Nose Cavity Sleeve



Side-view Mirror



**Transparent Sight
Glass Shield**



Image 2.2: Detailed view of the included accessories: Free Focus Cap, Ear Cavity Sleeve, Nose Cavity Sleeve, Side-view Mirror, and Transparent Sight Glass Shield.



Image 2.3: A selection of different endoscope tips, demonstrating the versatility of the device for various inspection needs.

3. PRODUCT COMPONENTS

Familiarize yourself with the main components of the MS100:

- **Microscope/Endoscope Unit:** The main camera body with integrated LEDs.
- **Focus Wheel:** Located on the microscope body for manual focus adjustment.
- **LED Adjusting Wheel:** Integrated into the USB cable for controlling LED illumination intensity.
- **2-in-1 USB Connector:** Features standard USB-A, Micro-USB, and Type-C connections for broad compatibility.
- **Adjustable Stand:** For stable positioning of the microscope.
- **Fixed Bolt:** Secures the microscope unit to the stand.



Image 3.1: A detailed diagram illustrating the key components of the FLYLINKTECH MS100, including the fixed bolt, adjusting bracket, focus wheel, LED adjusting wheel, and the versatile 2-in-1 USB connector (Micro-USB and Type-C).

4. SETUP AND INSTALLATION

4.1 Connecting to a Device

The MS100 features a versatile USB connector compatible with various devices:



Pour le système Android 4.4+ avec la fonction OTG et UVC.
Veuillez télécharger l'application "MScopes" sur Google Store.

Image 4.1: Illustration of the 2-in-1 USB connector (USB-A, Micro-USB, and Type-C) and its compatibility with PCs, laptops, Android tablets, and partial Android smartphones.

For Windows/Mac PC:

1. Connect the standard USB-A end of the microscope cable to an available USB port on your computer.

2. Software Installation:

- Download and install the recommended software (e.g., "Teslong Camera" or a compatible UVC camera application).
- Once installed, launch the software.
- In the software settings, select "Teslong Camera" or the appropriate device from the list of available cameras.
- The live video feed should now be visible in the preview area.

For Android Smartphones/Tablets (OTG compatible, Android 4.4+):

1. Ensure your Android device supports OTG (On-The-Go) functionality.
2. Connect the appropriate Micro-USB or Type-C end of the microscope cable to your Android device.

3. App Installation:

- Download and install the "MScopes" app (or "Teslong Camera") from the Google Play Store.

- Open the installed app.
- Select "Endoscope USB" as the device type within the app.
- The live video feed should appear in the preview area.

4.2 Assembling the Stand

Attach the microscope unit to the adjustable stand using the fixed bolt for stable observation.

5. OPERATING INSTRUCTIONS

5.1 Adjusting Focus

To achieve a clear image, manually adjust the focus wheel on the microscope body. The focus range is 10mm to 500mm.

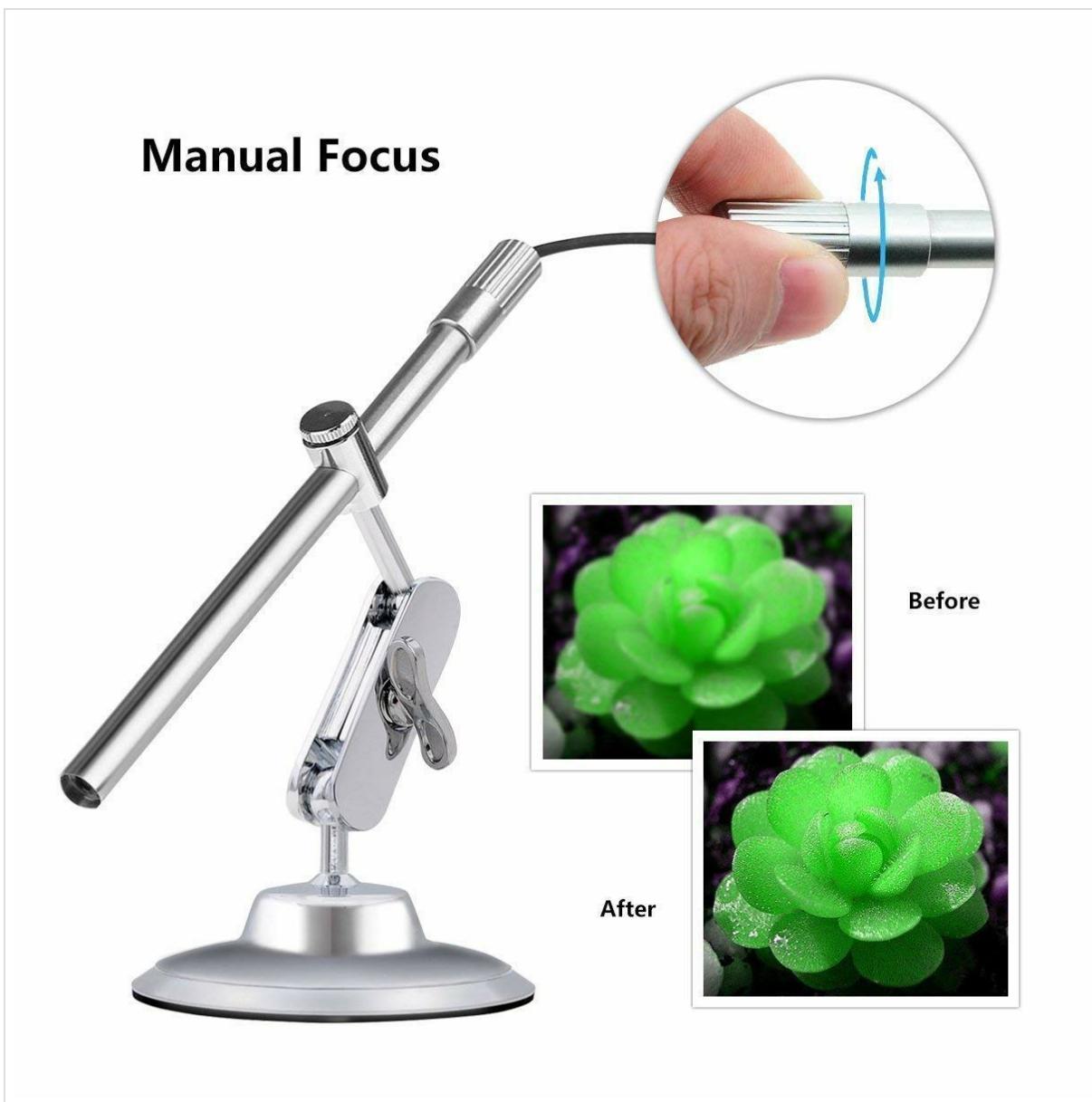


Image 5.1: Demonstration of adjusting the manual focus wheel on the microscope unit to achieve a clear image, with 'Before' and 'After' examples.

5.2 Adjusting LED Illumination

The microscope is equipped with 6 adjustable LEDs. Use the LED adjusting wheel on the USB cable to control the brightness, optimizing illumination for different inspection conditions.

5.3 Capturing Images and Videos

Once the software/app is running and displaying the live feed, use the provided software/app interface to capture still images or record videos. Refer to the specific software/app's instructions for detailed steps on recording and saving media.

5.4 Using Accessories

Attach the appropriate lens kit (e.g., Free Focus Cap, Ear Cavity Sleeve, Nose Cavity Sleeve) or the side-view mirror to the microscope head as needed for specific inspection tasks. The transparent sight glass shield can be used for protection or specific viewing angles.



Image 5.2: The endoscope function being demonstrated in a fish tank, highlighting its waterproof (IP67) capability for inspecting submerged objects or environments.

6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the microscope body and stand. For the camera lens, use a lens cleaning cloth and solution.
- **Waterproof Head:** The camera head is IP67 waterproof. After use in wet environments, ensure it is dried thoroughly before storage. Do not submerge the USB cable or the LED adjusting wheel.
- **Storage:** Store the device in a cool, dry place, away from direct sunlight and extreme temperatures.

- **Cable Care:** Avoid bending or twisting the USB cable excessively to prevent internal damage.

7. TROUBLESHOOTING

- **No Image/Video Feed:**
 - Ensure the USB connection is secure.
 - Verify that the correct software/app is installed and running.
 - Check if the device is selected as the camera source in the software/app settings.
 - For Android, confirm that your device supports OTG and that OTG is enabled (if applicable in your device settings).
 - Try connecting to a different USB port or a different compatible device.
- **Image is Blurry:**
 - Adjust the manual focus wheel on the microscope body.
 - Ensure the object is within the focus range (10mm to 500mm).
 - Clean the camera lens if there is any dust or smudges.
- **LEDs Not Working/Dim:**
 - Rotate the LED adjusting wheel on the USB cable to increase brightness.
 - Ensure the device is properly connected and receiving power.
- **Software/App Not Detecting Device:**
 - Restart the software/app and reconnect the device.
 - Ensure your operating system is compatible (Windows 7/8/10, Mac 10.6+, Android 4.4+).
 - Check for updated drivers or software versions.

8. SPECIFICATIONS

- **Model:** MS100
- **Image Sensor:** 1.0 Megapixel CMOS
- **Resolution:** 1280 x 720 pixels
- **Focus Range:** Manual, 10 mm to 500 mm
- **Magnification Ratio:** 10x to 200x
- **Illumination:** 6 Adjustable LEDs
- **Interface:** USB 2.0 UVC (Universal Video Class)
- **Waterproof Rating:** IP67 (for camera head only)
- **Operating System Compatibility:**
 - Windows 7/8/10
 - Mac OS 10.6 or higher
 - Android 4.4 or later (with OTG support)
- **Dimensions (Package):** 23.6 x 16.8 x 4.8 cm
- **Weight (Package):** 240 g

9. WARRANTY AND SUPPORT

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

For technical support or further assistance, please contact FLYLINKTECH customer service through their official website or the platform where the product was purchased.

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