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**RUZIZAO 130X-1080P(HDMI/VGA)**

# RUZIZAO Digital Industrial Microscope 130X-1080P(HDMI/VGA) Instruction Manual

Model: 130X-1080P(HDMI/VGA)

## 1. Introduction

Thank you for purchasing the RUZIZAO Digital Industrial Microscope. This manual provides essential information for the correct setup, operation, and maintenance of your device. Please read this manual thoroughly before use to ensure optimal performance and longevity of the product.

### Safety Information

- Always handle the microscope with care to prevent damage to optical components.
- Ensure the power supply is disconnected before cleaning or performing any maintenance.
- Avoid exposing the device to extreme temperatures, humidity, or direct sunlight.
- Keep the device away from water and other liquids.

## 2. Package Contents

Verify that all items listed below are included in your package:

- Microscope Camera (×1)
- Lens (×1)
- LED Ring Light (×1)
- Metal Base (×1)
- Power Plug (×1)
- HDMI Cable (×1)
- Instruction Manual (×1)

Image: Unboxing and package contents of the RUZIZAO Digital Industrial Microscope.

## 3. Setup Instructions

Follow these steps to assemble your RUZIZAO Digital Industrial Microscope:

1. **Attach the Riser to the Base:** Securely fasten the metal stand (riser) to the metal base.
2. **Install Stand Accessories:** Attach the necessary accessories to the stand and bracket as shown in the diagram.
3. **Mount the Bracket:** Slide the bracket onto the metal stand and tighten the screws to secure it at the desired height.
4. **Attach Camera and Lens:** Carefully attach the microscope camera and the C-mount lens to the bracket. Ensure all connections are firm.
5. **Attach Ring Light:** Secure the LED ring light to the bottom of the lens.
6. **Connect Power and Display:** Connect the camera to a monitor using the HDMI cable and then plug in the power supply.




Image: Fully assembled RUZIZAO Digital Industrial Microscope.

Your browser does not support the video tag.

Video: This video demonstrates the unboxing and assembly process of the RUZIZAO Digital Industrial Microscope, including attaching the stand, bracket, camera, lens, and ring light.

## 4. Operating Instructions

### Camera and Display

The microscope features a 13MP camera with 1080P high-definition digital imaging. It supports HDMI and VGA output, allowing you to connect to a computer display for a larger viewing area. This enables multiple viewers to observe real-time images and helps reduce eye and neck fatigue during extended use.




Image: Microscope connected to a monitor, showing a detailed view of a circuit board.

### 130X Zoom C-Mount Lens

The digital microscope is equipped with a 130X zoom C-mount lens. The maximum working distance of this lens is 220mm. The magnification range on the display is 1X to 130X. Users can easily focus on specimens by rotating the focus

knob on the lens.




Image: Detail of the 130X zoom C-mount lens, highlighting the focus adjustment.

## Adjustable LED Ring Light

This digital microscope includes a 56-LED adjustable ring light. The color temperature of these LED beads ranges from 6500K to 7000K, with a maximum illuminance of 60000 lux. This provides optimal lighting conditions, ensuring sufficient illumination for clearer and more vibrant specimen images under the microscope.




Image: The adjustable LED ring light, showing its design and brightness control.

## Stable and Adjustable Stand

The digital microscope is constructed with a high-quality metal stand and mounting bracket. The base is fitted with four anti-slip rubber feet, ensuring excellent stability and high load-bearing capacity. The bracket and lifting platform are adjustable to various angles and heights, allowing users to find the optimal position for clearer observation of samples.

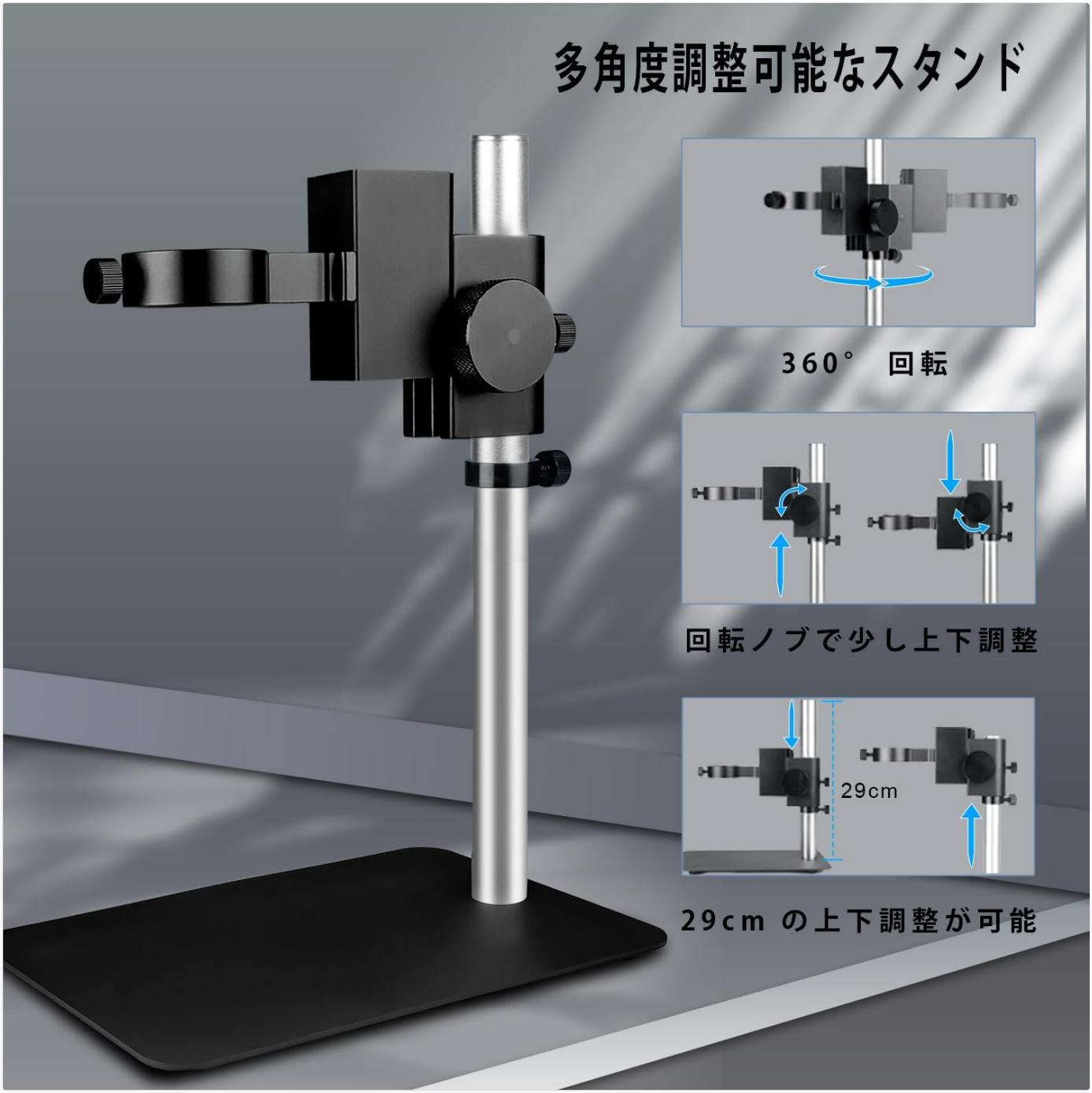



Image: The adjustable metal stand, demonstrating its rotation and vertical adjustment capabilities.

## PC Software Connection

To connect the microscope to a computer and use its software:

1. Connect the microscope to your computer using a USB cable.
2. In the software, select the connected camera from the list.
3. To capture photos, click "Capture" and then "Save File" to choose a save location.
4. To record videos, click "Video" and follow the prompts to select a save location. Click "Video" again to stop recording.




Image: Instructions for connecting the microscope to a PC and using the software interface.

Your browser does not support the video tag.

Video: This video demonstrates the operational features of the RUZIZAO Digital Industrial Microscope, including adjusting focus, brightness, and navigating the on-screen menu for various settings like white balance, exposure, and cross-line display.

## 5. Maintenance

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

- **Cleaning the Lens:** Use a soft, lint-free cloth specifically designed for optical lenses. For stubborn smudges, a small amount of lens cleaning solution can be applied to the cloth, not directly to the lens.
- **Cleaning the Body:** Wipe the microscope body and stand with a soft, dry cloth. Avoid abrasive cleaners or solvents.
- **Storage:** When not in use, store the microscope in a clean, dry, and dust-free environment. Use a dust cover if available.
- **Power:** Always disconnect the power adapter when the microscope is not in use for extended periods.

## 6. Troubleshooting

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

- **No Image on Screen:**
  - Ensure all cables (power, HDMI/VGA) are securely connected.
  - Verify the monitor input source is correctly selected (HDMI or VGA).
  - Check if the microscope camera is powered on.

- **Image is Blurry:**
  - Adjust the focus knob on the lens.
  - Ensure the working distance between the lens and the specimen is appropriate (40mm-220mm).
  - Clean the lens if there are smudges or dust.
- **Image is Too Dark/Bright:**
  - Adjust the brightness of the LED ring light using its control knob.
  - Access the camera menu to adjust exposure settings.
- **Cannot Connect to PC Software:**
  - Ensure the USB cable is properly connected.
  - Check if the correct camera device is selected in the software.
  - Restart the software and/or the computer.

If the problem persists after trying these steps, please contact customer support.

## 7. Specifications

| Feature | Detail |
|---|---|
| Brand | RUZIZAO |
| Model Number | XVH2003 |
| Color | Black and Red |
| Camera Resolution | 13 Megapixels (1080P) |
| Maximum Magnification | 130X |
| Lens Type | C-Mount, Plan |
| Working Distance | 40mm - 220mm |
| Output Ports | HDMI, VGA |
| Light Source Type | LED Ring Light (56 LEDs) |
| LED Color Temperature | 6500K - 7000K |
| Max Illuminance | 60000 Lux |
| Package Dimensions | 35.29 x 22.9 x 13.4 cm |
| Item Weight | 2.06 kg |
| UPC | 768351109222 |

## 8. Warranty and Support

For warranty information, please refer to the documentation provided at the time of purchase or contact your retailer. If

you require technical assistance or have questions regarding the operation of your RUZIZAO Digital Industrial Microscope, please reach out to our customer support team through the contact information provided on the product packaging or our official website.

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**Details**

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

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