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› [NICE-POWER](#) /

› NICE-POWER Digital Microscope Camera XVH2003 User Manual

NICE-POWER XVH2003

NICE-POWER Digital Microscope Camera XVH2003 User Manual

Model: XVH2003

1. INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your NICE-POWER Digital Microscope Camera (Model XVH2003). This industrial video microscope is designed for high-precision observation and repair tasks, offering 13MP 1080P resolution output via HDMI and VGA, a 150X zoom C-mount lens, a flexible stand, and an integrated LED ring light.

It is suitable for various applications including electronics repair, coin observation, and other detailed inspection work.



Figure 1: NICE-POWER Digital Microscope Camera with all included components.

2. PACKAGE CONTENTS

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

- Microscope Camera (1)
- 150X Zoom C-Mount Lens (1)
- LED Ring Light (1)
- Foldable Stand (1)
- Remote Control (1) - *Note: Remote control battery (CR2025) is not included.*
- Power Plug (1)
- Instruction Manual (1)

NICE-POWER

Digital microscope



Imported camera



Optical lens



Bright ring light



Multi-angle adjustment
Folding stand



Figure 2: All components included in the package.

3. PRODUCT FEATURES

- **13MP 1080P Microscope Camera:** Equipped with an imported sensor, the camera outputs high-definition 1080P images via HDMI and VGA.
- **150X Zoom C-Mount Lens:** The lens offers a magnification range of 1-150X on the display, with a working distance up to 1000mm. Magnification can be adjusted using the knob on the lens.
- **Bright LED Ring Light:** Features 56 bright LED beads with a color temperature of 6500K-7000K. Brightness is adjustable, providing up to 60,000 Lux illumination for clear images and videos.
- **Flexible and Stable Stand:** The upgraded foldable stand offers multi-angle adjustment with 4 adjustable parts, allowing for optimal positioning and observation.
- **Remote Control:** The microscope can be controlled remotely, a feature available exclusively when using HDMI output mode.

INTELLIGENT CCD CAMERA

Adopts 2 megapixel back-illuminated CMOS image sensor

HDMI/VGA 1080P 30 fps image output



Insect observation



Circuit Board Repair



Watch Repair



Figure 3: High-definition 1080P camera for various applications.

150X ZOOM C-MOUNT LENS

Magnification:

0.15-2x (approx. 1-150x on display)

Working distance: 50mm~1000mm

Zoom Ratio: 1:15

ROTATE TO ADJUST FOCUS



1X

150X



Figure 4: 150X Zoom C-Mount Lens for detailed observation.

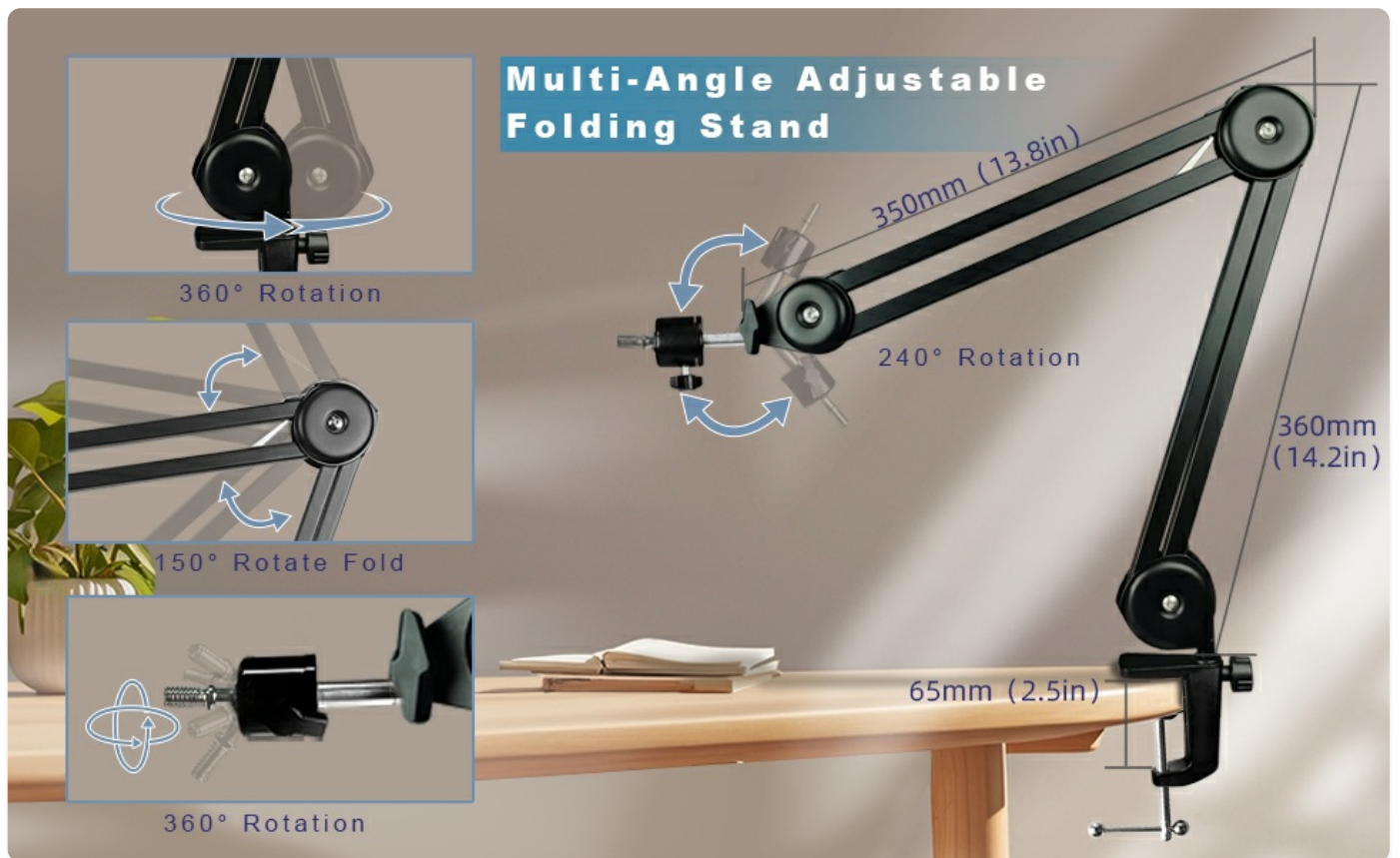


Figure 5: Flexible and adjustable stand for versatile positioning.

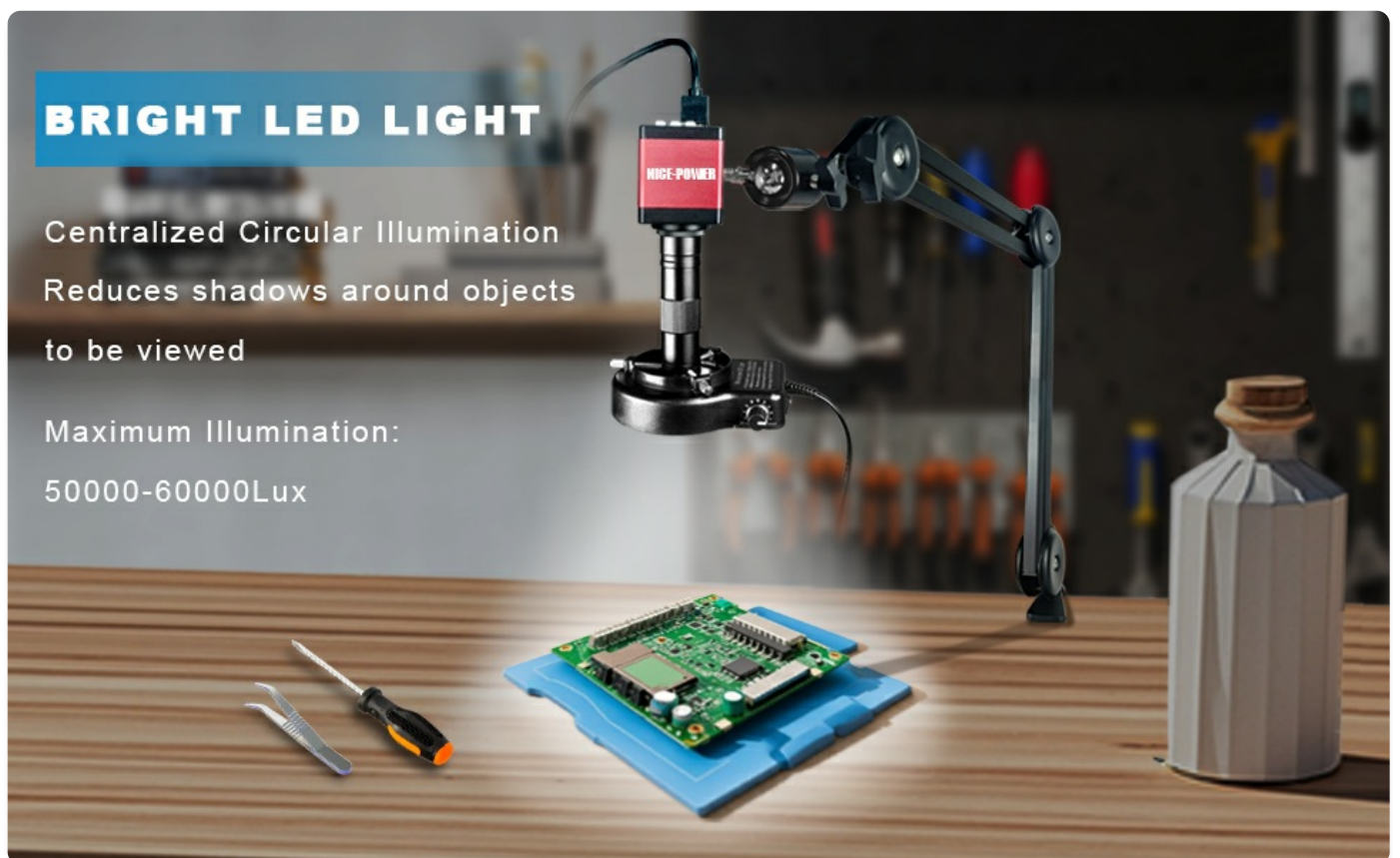


Figure 6: Bright LED Ring Light for enhanced visibility.

4. SETUP AND INSTALLATION

Follow these steps to assemble and set up your digital microscope:

1. **Attach the Head to the Stand:** Secure the microscope head to the flexible arm stand.
2. **Secure the Stand:** Attach the desktop clamp to the stand, then secure the entire assembly to a stable table or workbench by tightening the fixture.
3. **Attach Camera to Bracket:** Mount the microscope camera onto the bracket at the end of the flexible arm.
4. **Attach Lens to Camera:** Screw the 150X Zoom C-Mount lens onto the camera.
5. **Attach Ring Light to Lens:** Carefully place the LED ring light around the lens.
6. **Adjust Stand Flexibility:** The stand allows for 240-degree rotation and 150-degree folding. Unscrew the retainer to rotate the head up and down 240 degrees. The base of the stand can rotate 360 degrees. Adjust to your desired viewing angle.
7. **Connect Power and Display:** Connect the microscope camera to a monitor (via HDMI or VGA cable, not included) and connect the power supply separately for use.

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Video 1: Official NICE-POWER Digital Microscope Installation Guide. This video demonstrates the step-by-step assembly of the microscope, including attaching the head, securing the stand, mounting the camera and lens, and connecting the ring light.

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Video 2: Official NICE-POWER Digital Microscope Installation Video. This video provides an alternative visual guide for the assembly process, showing how to connect various components and adjust the stand.

5. OPERATING INSTRUCTIONS

Once assembled, operate your digital microscope as follows:

1. **Power On:** Connect the power plug to the microscope camera and a power outlet. The device will power on automatically or via a dedicated power button if available.
2. **Display Output:** Connect an HDMI or VGA cable from the microscope camera to a compatible monitor or display. The microscope will output a live 1080P HD image.
3. **Adjust Magnification:** Rotate the knob on the 150X Zoom C-Mount lens to adjust the magnification level from 1X to 150X on your display.
4. **Adjust LED Light Brightness:** Use the knob on the LED ring light to adjust its brightness. This helps illuminate your specimen evenly and reduce shadows.
5. **Remote Control Operation:** For convenience, use the remote control to navigate menus and adjust settings. This function is only available when using HDMI output.
6. **Observation:** Position your specimen under the lens and adjust the stand and focus until a clear image is displayed on the monitor.

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Video 3: Official NICE-POWER Digital Microscope in use for Electronics Repair. This video demonstrates the microscope's capabilities in a practical setting, showing detailed views of electronic components during repair.

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Video 4: LM109A Soldering Electronics Microscope with Flex Arm Stand. This short video, though for a similar model, illustrates the practical application of a flexible arm digital microscope for soldering tasks, showcasing its stability and clear magnification.

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Video 5: LM115A 5" Digital Microscope with 12.6" Flex Boom Arm Stand. This video, for a similar model, demonstrates the flexibility and utility of a boom arm stand for precise positioning during detailed work.

6. MAINTENANCE

- Keep the lens clean using a soft, lint-free cloth. Avoid abrasive materials that could scratch the lens.
- Store the microscope in a dry, dust-free environment when not in use.
- Avoid exposing the device to extreme temperatures or direct sunlight.
- Do not attempt to disassemble the microscope camera or lens, as this will void the warranty.

7. TROUBLESHOOTING

- **No Image on Display:**
 - Ensure the power supply is correctly connected and the device is powered on.
 - Verify that the HDMI or VGA cable is securely connected to both the microscope and the display.
 - Check the input source on your monitor to ensure it is set to the correct HDMI or VGA input.
- **Unclear Image:**
 - Adjust the focus knob on the C-Mount lens.
 - Adjust the height and angle of the flexible stand to find the optimal working distance.
 - Increase the brightness of the LED ring light for better illumination.
 - Ensure the lens is clean and free from dust or smudges.
- **Remote Control Not Responding:**
 - Confirm that the remote control battery (CR2025) is installed and has sufficient power.
 - Ensure the microscope is connected via HDMI output, as remote control functionality is limited to this mode.
- **Initial Language Setting is Chinese:**
 - Access the microscope's menu (usually via a button on the device or remote).
 - Navigate to the language settings. While the menu may initially be in Chinese, the language option is typically represented by a universal symbol or a recognizable character sequence. Select English.

8. SPECIFICATIONS

Feature	Detail
Model Number	XVH2003
Camera Resolution	13MP 1080P
Output Interfaces	HDMI, VGA
Lens Type	150X Zoom C-Mount Lens
Magnification (on display)	1-150X
Working Distance	Up to 1000mm
Light Source	56-LED Ring Light
Max Illumination	60,000 Lux
Color Temperature	6500K-7000K
Stand Type	Flexible Foldable Arm Stand
Item Weight	3.87 pounds
Material	Plastic

9. WARRANTY AND SUPPORT

For any questions or assistance regarding your NICE-POWER Digital Microscope Camera, please contact our customer support. We aim to reply to all inquiries within 24 hours.

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