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› NICE-POWER 4K/48MP/180X Digital Microscope Instruction Manual

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Model: 4K/48MP/180X

Brand: NICE-POWER

1. PRODUCT OVERVIEW

The NICE-POWER 4K/48MP/180X Digital Microscope is an advanced industrial microscope designed for detailed observation and inspection. It features 4K HD image quality, a 48MP camera, a 180X zoom lens, adjustable LED ring light illumination, and a stable base stand. This manual provides essential information for proper setup, operation, and maintenance of your device.



Figure 1: Overall view of the NICE-POWER Digital Microscope.

2. PACKAGE CONTENTS

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

- Microscope Camera (x1)
- 180X Lens (x1)

- Adjustable Ring Light (x1)
- Large Base Stand Combination (x1)
- Remote Control (x1) - *Note: Remote control battery is not included.*
- Power Plug (U.S. gauge) (x1)
- English Manual (x1)

3. SETUP AND INSTALLATION

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

3.1 Assembling the Stand and Microscope

The microscope features a robust, multi-angle adjustable stand for stability and flexible positioning.



Figure 2: Multi-angle adjustable stand for flexible positioning.

The stand allows for 360° rotation and vertical adjustment up to 31cm. Ensure all fixing screws are tightened for stability.

3.2 Attaching the Lens and Ring Light

The 180X zoom lens is designed to perfectly adapt to the fixed base. The adjustable LED ring light provides optimal illumination for clear imaging.

Bright LED LIGHT

56 particles of bright LEDs



Rotate to adjust
brightness

Maximum Illumination:
50000-60000Lux

Figure 3: Bright LED adjustable ring light.

Attach the 180X lens to the microscope camera. Then, secure the adjustable ring light around the lens. The ring light features 56 bright LED beads with adjustable brightness (up to 60,000 lux) and a color temperature of 6500K to 7000K.

3.3 Connecting to a Display

The microscope supports HDMI and Type-C output for connecting to a monitor or computer.



Figure 4: Microscope connected to a laptop.

Use the provided Type-C cable to connect to a computer or an HDMI cable for a monitor. Ensure the power plug is connected to the microscope camera.

3.4 Installation Video Guide

For a visual guide on the installation process, please refer to the official installation video:

Video 1: NICE-POWER Digital Microscope Installation Guide. This video demonstrates the step-by-step assembly of the microscope components and stand.

4. OPERATING INSTRUCTIONS

4.1 Power On/Off and Basic Controls

Press the power button on the microscope camera to turn the device on or off. Use the remote control for convenient operation, including capturing photos and recording videos.

4.2 Image Quality and Camera Features

The microscope is equipped with an 8.29-megapixel CMOS image sensor, delivering 4K HD image quality and 48MP photos. It supports 4K video recording at 30fps and 1080P at 60fps. One-key white balance adjustment is available for accurate color representation.

INTELLIGENT CCD CAMERA

Adopts 8.29 megapixel CMOS image sensor

HDMI 3840*2160 30fps and 1080p 60fps
high-quality image output

4K video recording, 4K photo taking

Support 64GB TF card mass storage



Insect observation



Circuit Board Repair



Watch Repair



Figure 5: Intelligent CCD camera with 4K video and 48MP photo capabilities.

4.3 Magnification and Focusing

The 180X zoom lens offers a magnification range of 1-180X on the display. Adjust the magnification using the knob on the lens. The maximum working distance is up to 300mm, suitable for various tasks like electronic repair and specimen observation.

180X ZOOM C-MOUNT LENS

Magnification:

0.7-4.5x (approx. 1-180x on display)

Working distance: 100mm~150mm

Zoom Ratio: 1:6.5

ROTATE TO ADJUST FOCUS



1X

180X



Figure 6: 180X Zoom C-Mount Lens with focus adjustment. Rotate to adjust focus.

4.4 Using PC Software

To connect to a computer and use the PC software:

- 1. Connect the microscope to your computer using the Type-C cable.
- 2. Open the PC software. The camera list should appear; select your camera.
- 3. Click 'Capture' to take a photo, then 'File-Save' to choose the save location.
- 4. For video recording, click the video icon. A pop-up window will guide you to select the save address. Click the video icon again to stop recording and auto-save.

If you require assistance with software download or installation, please contact customer support.



Figure 7: Guide for connecting and using the microscope with PC software.

4.5 Product Demonstration Video

View a demonstration of the microscope's features and capabilities:

Video 2: NICE-POWER Digital Microscope with 180X Lens Large Stable Base Stand. This video showcases the microscope's image quality, lens capabilities, and stable stand.

5. SPECIFICATIONS

Feature	Specification
Model Number	4K/48MP/180X(Type-C/HDMI)
Image Quality	4K HD
Camera Resolution	48MP (8000*6000)
Video Recording	4K (30fps), 1080P (60fps)

Lens Magnification	1-180X (on display)
Working Distance	Up to 300mm
Base Stand Dimensions	10*15 inches
Stand Height	13 inches
Ring Light LEDs	56 bright LED beads
Ring Light Illumination	Max 60,000 Lux
Ring Light Color Temp.	6500K to 7000K
Output Interfaces	Type-C, HDMI
Material	Metal and Glass
Color	Black
Item Weight	5 pounds

6. MAINTENANCE

To ensure the longevity and optimal performance of your NICE-POWER Digital Microscope, follow these maintenance guidelines:

- **Cleaning the Lens:** Use a soft, lint-free cloth and a specialized lens cleaning solution to gently wipe the lens. Avoid abrasive materials that could scratch the lens surface.
- **Cleaning the Body:** Wipe the microscope body and stand with a dry or slightly damp soft cloth. Do not use harsh chemicals or solvents.
- **Storage:** When not in use, store the microscope in a clean, dry, and dust-free environment. Use the original packaging or a protective cover to prevent dust accumulation.
- **Avoid Impact:** Handle the microscope with care to prevent drops or impacts that could damage internal components or optical elements.
- **Environmental Conditions:** Avoid exposing the microscope to extreme temperatures, high humidity, or direct sunlight for prolonged periods.

7. TROUBLESHOOTING

If you encounter any issues with your digital microscope, refer to the following common troubleshooting tips:

- **No Power:** Ensure the power plug is securely connected to both the microscope camera and a working power outlet. Check if the power adapter is functioning correctly.
- **No Image on Screen:** Verify that the HDMI or Type-C cable is correctly connected to the display device (monitor/computer) and the microscope. Ensure the display device is set to the correct input source.
- **Blurry Image:** Adjust the focus knob on the lens. Ensure the working distance between the lens and the object is appropriate for the current magnification. Clean the lens if necessary.
- **Insufficient Lighting:** Adjust the brightness of the LED ring light using its control knob. Ensure the ring light is properly connected and powered.
- **PC Software Not Detecting Camera:** Ensure the Type-C cable is securely connected. Try restarting the PC software or your computer. Check device manager for driver issues.
- **Remote Control Not Working:** Ensure the remote control has working batteries (not included in package). Point the remote directly at the microscope camera's sensor.

If the issue persists after trying these steps, please contact customer support for further assistance.

8. WARRANTY AND SUPPORT

NICE-POWER provides customer support for its products. If you have any questions or require assistance with your digital microscope, please contact us. We aim to reply within 24 hours.

Please refer to the official product page or included warranty card for specific warranty terms and conditions.