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› Dpofirs 40X-3000X Binocular Microscope Instruction Manual

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Dpofirs 40X-3000X Binocular Microscope Instruction Manual

1. INTRODUCTION

This manual provides detailed instructions for the proper setup, operation, and maintenance of your Dpofirs 40X-3000X Binocular Microscope. Please read this manual thoroughly before using the microscope to ensure safe and effective operation. Retain this manual for future reference.

The Dpofirs binocular microscope is designed for educational, laboratory, and hobbyist use, offering a wide range of magnifications for observing microscopic specimens.

2. SAFETY INFORMATION

- Always handle the microscope with care to prevent damage to optical and mechanical components.
- Ensure the microscope is placed on a stable, level surface to prevent tipping.
- Do not expose the microscope to direct sunlight, high temperatures, or high humidity.
- Disconnect the power cord before cleaning or performing any maintenance.
- Avoid touching optical surfaces with bare hands. Use lens paper or a soft, lint-free cloth for cleaning.
- Keep small parts and accessories away from children to prevent choking hazards.

3. PACKAGE CONTENTS

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

- Binocular Microscope Body
- WF10X Eyepieces (2 pairs)
- WF50X Eyepieces (2 pairs)
- Achromatic Objective Lenses: 4X, 10X, 40X
- Power Adapter
- USB Cable
- Carrying Bag

- Experimental Tools (e.g., slides, cover slips)



Image: Dpofirs binocular microscope with various eyepieces and a carrying bag.



Image: Dpofirs microscope package contents, including power adapter, USB cable, and additional WF10X and WF50X eyepieces.

4. PRODUCT OVERVIEW

Familiarize yourself with the main components of your Dpofirs microscope:

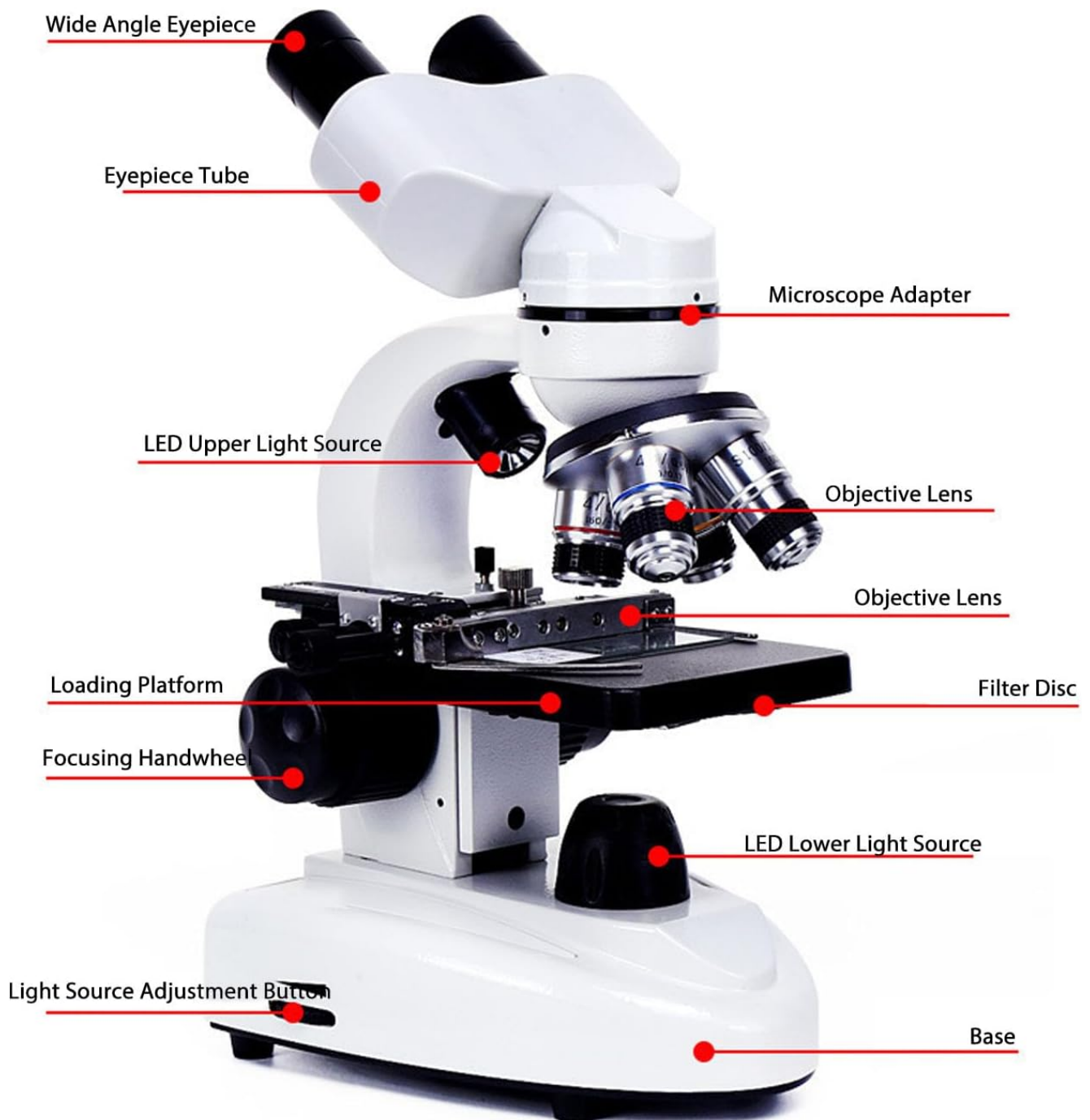


Image: Labeled diagram of the Dpofirs binocular microscope components.

- **Wide Angle Eyepiece:** The lenses through which you view the specimen.
- **Eyepiece Tube:** Holds the eyepieces.
- **Microscope Adapter:** Point of attachment for external devices (e.g., smartphone adapter).
- **LED Upper Light Source:** Provides illumination for opaque specimens.
- **Objective Lens:** Rotating turret with multiple magnification lenses (4X, 10X, 40X).
- **Loading Platform (Stage):** Flat surface where specimens are placed.
- **Filter Disc:** Allows selection of different colored filters for enhanced contrast.
- **Focusing Handwheel:** Coarse and fine adjustment knobs for focusing.
- **LED Lower Light Source:** Provides illumination for transparent specimens.
- **Light Source Adjustment Button:** Controls the brightness of the LED lights.
- **Base:** Provides stability for the microscope.

5. SETUP

1. **Unpacking:** Carefully remove all components from the packaging.
2. **Placement:** Place the microscope on a stable, flat surface away from direct sunlight and vibrations.
3. **Eyepiece Installation:** Insert the desired eyepieces (WF10X or WF50X) into the eyepiece tubes.
4. **Power Connection:** Connect the power adapter to the microscope's power input and then to a suitable electrical outlet.

6. OPERATING INSTRUCTIONS

6.1. Placing a Specimen

1. Place a prepared slide onto the loading platform (stage).
2. Secure the slide using the stage clips.
3. Use the stage adjustment knobs (if present) to center the specimen under the objective lens.

6.2. Adjusting Magnification

The microscope offers various magnification levels by combining different eyepieces and objective lenses.

1. Rotate the objective lens turret to select the lowest magnification objective (e.g., 4X) first. This provides a wider field of view for initial specimen location.
2. Once the specimen is located and roughly focused, rotate the turret to a higher magnification objective (e.g., 10X, 40X) as needed.



Incidence and transmission LEDs with adjustable light source brightness by rotating the knob.

Ensures detail and precise focus adjustment, creating clear images.

Can be used for clinical research, breeding testing, etc.



Image: Close-up view of the microscope's rotating objective lenses and specimen stage.

6.3. Focusing

1. While looking through the eyepieces, slowly turn the **coarse focusing handwheel** to bring the specimen into approximate focus.
2. Once roughly focused, use the **fine focusing handwheel** for precise and sharp image adjustment.

6.4. Illumination Adjustment

The microscope features both upper and lower LED light sources for different types of specimens.

1. For transparent specimens (e.g., prepared slides), use the **LED Lower Light Source**. Adjust its brightness using the light source adjustment button.
2. For opaque specimens (e.g., leaves, fabric), use the **LED Upper Light Source**. Adjust its brightness as

needed.

3. The filter disc can be rotated to select different colored filters to enhance contrast for various specimens.



Image: Dpofirs microscope illustrating its dual LED lighting system and fine focus capabilities.

6.5. Using a Smartphone Adapter (Optional)

To capture images or videos of your observations, you can attach a smartphone adapter (not included with this model) to one of the eyepieces.

1. Securely attach the smartphone adapter to one of the eyepieces.
2. Mount your smartphone onto the adapter, ensuring the camera lens is aligned with the eyepiece.
3. Open your smartphone's camera application.
4. Adjust the microscope's focus and illumination until a clear image appears on your phone screen. You may need to zoom in or out on your phone's camera app to fill the screen.



Image: Dpofirs microscope connected to a laptop, showing a magnified view of microorganisms. A smartphone adapter is also visible.

Video: Demonstration of using the Dpofirs microscope, including attaching a smartphone adapter and adjusting objective lenses to view specimens.

Video: Various microscopic views of biological specimens, demonstrating the clarity and magnification capabilities of the microscope.

7. MAINTENANCE

- **Cleaning Lenses:** Use a soft brush to remove dust, then gently wipe with lens paper and a small amount of lens cleaning solution. Do not use abrasive materials.
- **Cleaning Body:** Wipe the microscope body with a soft, damp cloth. Avoid using harsh chemicals or solvents.
- **Storage:** When not in use, cover the microscope with the provided dust cover and store it in its carrying bag in a cool, dry place.
- **Lubrication:** Moving parts are factory-lubricated and generally do not require additional lubrication. If movement becomes stiff, consult a professional.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No image visible	No light, objective not aligned, specimen not in focus	Check power, adjust light source, rotate objective turret, adjust focus knobs.
Image is blurry	Incorrect focus, dirty lens, wrong objective selected	Use fine focus, clean lenses, ensure objective is fully clicked into place.
Insufficient illumination	Light source off, brightness too low, incorrect light source for specimen type	Turn on light, increase brightness, switch between upper/lower LEDs.
Dust or spots in view	Dust on eyepiece or objective lens	Clean eyepieces and objective lenses with lens paper.

9. SPECIFICATIONS

Feature	Specification
Brand	Dpofirs
Model Name	Dpofirsethp3gwd0k-11
Magnification Range	40X-3000X (Max 5000X)
Eyepieces	WF10X, WF50X
Objective Lenses	4X, 10X, 40X Achromatic
Light Source Type	LED (Upper and Lower)
Material	Metal
Color	Silver
Real Angle of View	45 Degrees
Voltage	240 Volts
Item Weight	4.99 pounds
Package Dimensions	14.17 x 11.54 x 6.77 inches

10. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the documentation provided with your purchase or contact Dpofirs customer service directly. Keep your purchase receipt as proof of purchase for warranty claims.

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.

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

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