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› ANKROYU Baxnore XSP 01 640X Biological Microscope User Manual

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Model: XSP 01 640X

1. OVERVIEW

This manual provides essential information for the proper setup, operation, and maintenance of your ANKROYU Baxnore XSP 01 640X Biological Microscope. Please read these instructions carefully before using the microscope to ensure safe and effective operation.



Image 1.1: The ANKROYU Baxnore XSP 01 640X Biological Microscope kit, including the microscope unit, two eyepiece lenses, and a storage bag.

2. PACKAGE CONTENTS

Upon opening the package, verify that all the following items are present and undamaged:

- 1 × ANKROYU Baxnore XSP 01 640X Microscope
- 2 × Eyepiece Lenses (e.g., 10X, 16X)

- 1 × Storage Bag

If any items are missing or damaged, please contact customer support.

3. PRODUCT FEATURES

- **Comfortable Observation Angle:** Features an adjustable 45° observation angle for ergonomic viewing during extended sessions, reducing user strain.
- **Clear View:** Equipped with an optical coating and wide-angle eyepiece, providing a larger, broader field of view with enhanced clarity for detailed observations.
- **Precise Focusing:** The handwheel system allows for both coarse and fine adjustments, enabling quick and accurate focusing for clear visibility of minute details.
- **Cell Research Capability:** Effective for magnifying small objects, making it suitable for life sciences studies and observing cellular structures.
- **Wide Application:** Versatile for various scientific and industrial applications, including material structure analysis, defect identification, and examination of artificial fibers, steel, and ceramics.



Optical coating lens



Five hole dimmer



Metal body



Four hole converter



Thickness and Fine Focusing



Transmission lighting



Ergonomics



Vernier caliper



Connected mobile phone

4. PARTS IDENTIFICATION

Familiarize yourself with the main components of your microscope:

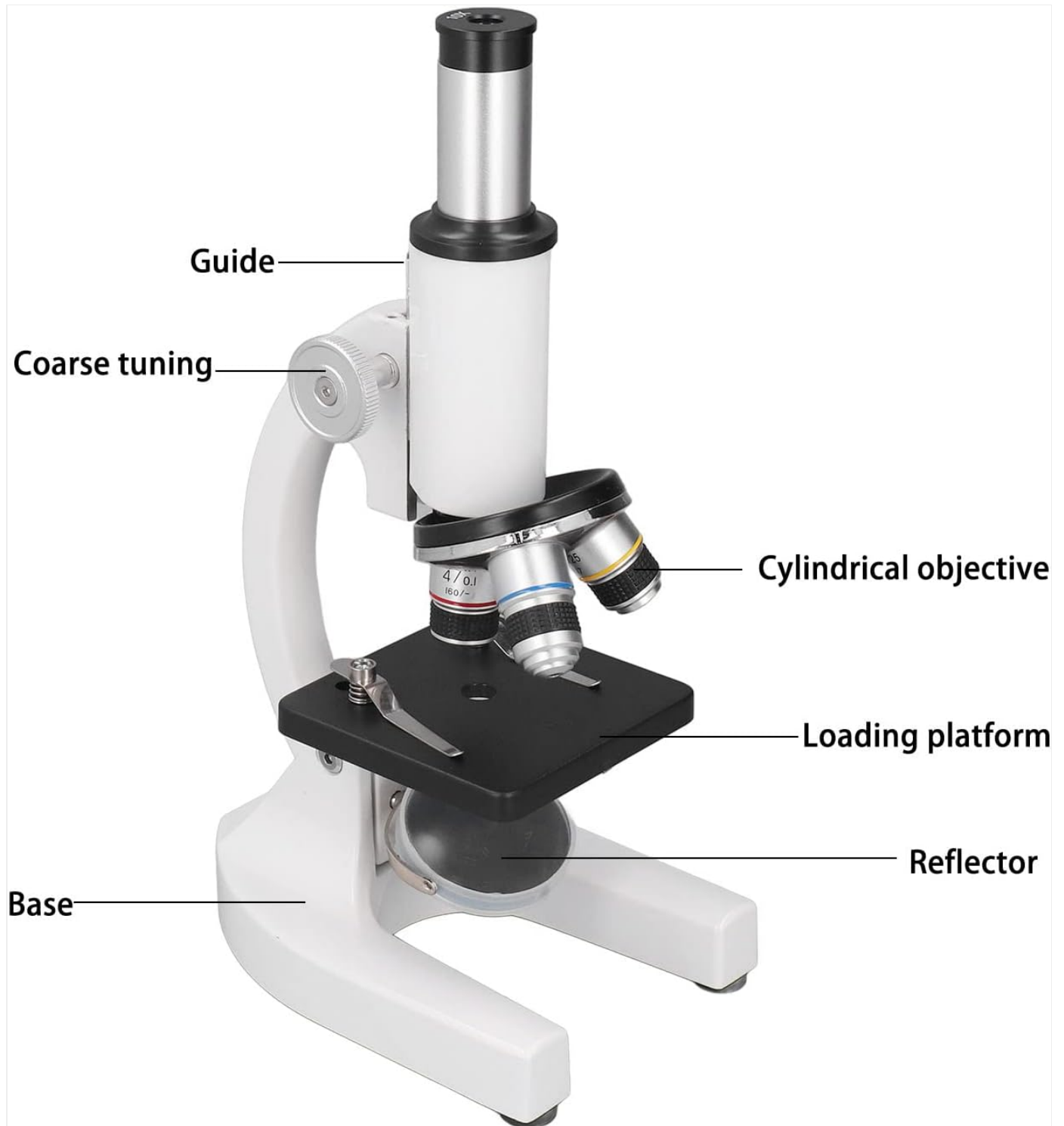


Image 4.1: Labeled diagram showing the main parts of the microscope, including the guide (eyepiece), coarse tuning knob, cylindrical objective lenses, loading platform (stage), reflector, and base.

- **Eyepiece (Guide):** Where you look to observe the specimen.
- **Coarse Tuning Knob:** Used for large adjustments in focus.
- **Fine Tuning Knob:** Used for small, precise adjustments in focus (often integrated with coarse tuning).
- **Objective Lenses (Cylindrical objective):** Multiple lenses with different magnifications, typically mounted on a revolving nosepiece.

- **Stage (Loading platform):** The flat platform where the specimen slide is placed.
- **Stage Clips:** Hold the specimen slide in place.
- **Reflector/Illuminator:** Provides light to illuminate the specimen.
- **Base:** The bottom support of the microscope.



Image 4.2: Detail of the coaxial handwheel for coarse and fine focusing adjustments.

5. SETUP

1. **Unpacking:** Carefully remove the microscope and all accessories from the packaging. Place the microscope on a stable, level surface.
2. **Eyepiece Installation:** Insert the desired eyepiece lens (e.g., 10X or 16X) into the top tube of the microscope.
3. **Power Connection (if applicable):** If your microscope has an illuminator requiring power, connect the power adapter to the microscope and then to a suitable power outlet.
4. **Adjust Observation Angle:** The microscope head can be adjusted to a 45° angle for comfortable viewing. Loosen

the locking screw (if present) and tilt the head, then secure it.

Observation from a comfortable perspective

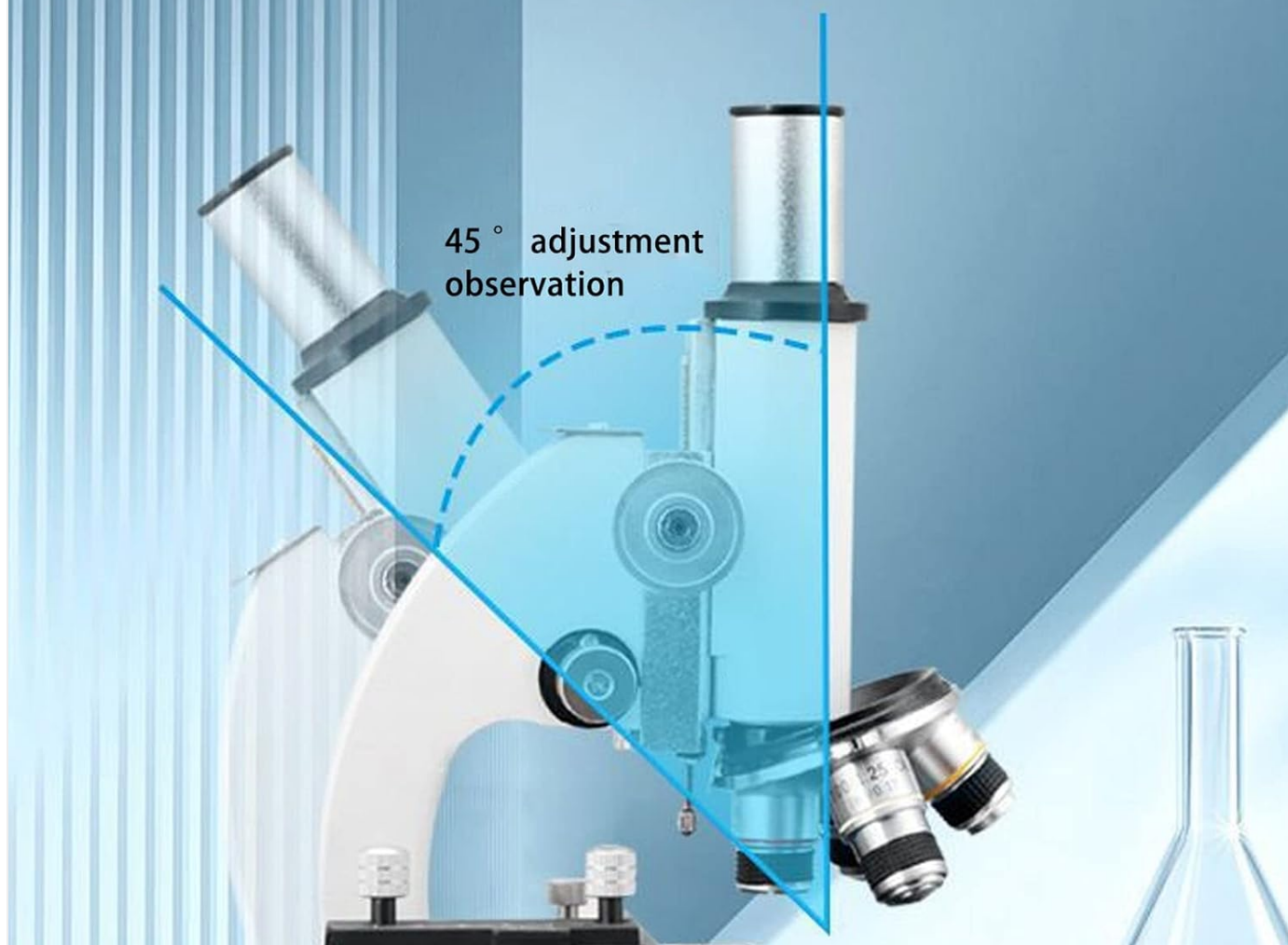


Image 5.1: Illustration of the 45-degree adjustable observation angle, designed for ergonomic comfort during use.

6. OPERATION

1. **Placing the Specimen:** Place a prepared specimen slide onto the stage, securing it with the stage clips.
2. **Selecting Objective Lens:** Rotate the revolving nosepiece to select the lowest power objective lens (e.g., 4X). Ensure it clicks into place.
3. **Adjusting Illumination:** Turn on the illuminator (if applicable) and adjust its brightness or the reflector's angle to achieve even illumination of the specimen.
4. **Coarse Focusing:** While looking through the eyepiece, use the coarse tuning knob to bring the specimen into approximate focus. Move the stage up until the specimen is almost touching the objective lens, then slowly lower it until the image appears.
5. **Fine Focusing:** Once the specimen is roughly in focus, use the fine tuning knob for precise adjustments to achieve a sharp, clear image.

6. **Changing Magnification:** To increase magnification, rotate the revolving nosepiece to a higher power objective lens (e.g., 10X, 40X). Re-adjust fine focus as needed. Avoid using the coarse focus knob with high power objectives to prevent damage to the slide or lens.

7. MAINTENANCE

- **Cleaning Lenses:** Use only specialized lens cleaning paper and lens cleaning solution. Gently wipe the lens surfaces. Never use abrasive materials or harsh chemicals.
- **Cleaning Body:** Wipe the microscope body with a soft, damp cloth. Avoid getting moisture into electrical components.
- **Storage:** When not in use, cover the microscope with the provided dust cover or place it in the storage bag to protect it from dust and debris. Store in a cool, dry place.
- **Handling:** Always carry the microscope by its arm and base. Avoid sudden impacts or vibrations.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No image visible	• Illuminator off or reflector misaligned • Objective lens not clicked into place • Specimen not centered or in focus	• Turn on illuminator, adjust reflector • Rotate nosepiece until lens clicks • Center specimen, adjust focus knobs
Image blurry or unclear	• Incorrect focus adjustment • Dirty lenses • Air bubbles in immersion oil (if used)	• Use fine focus knob • Clean lenses with lens paper • Remove and reapply immersion oil
Dark spots in field of view	• Dust on eyepiece or objective lens • Dust on specimen slide	• Clean eyepiece and objective lenses • Clean specimen slide

9. SPECIFICATIONS

Feature	Detail
Model	XSP 01 640X
Material	Stainless Steel
Observation Angle	45° Adjustable
Focusing System	Coaxial Handwheel (Coarse and Fine Adjustment)
Eyepiece	Wide-angle, Optical Coating
Item Weight	2.57 pounds (approx. 1.17 kg)
Package Dimensions	12.2 x 11.02 x 5.91 inches (approx. 31 x 28 x 15 cm)
ASIN	B0DY7C146X
Manufacturer Model Number	ANKROYU4rnhucz2gk

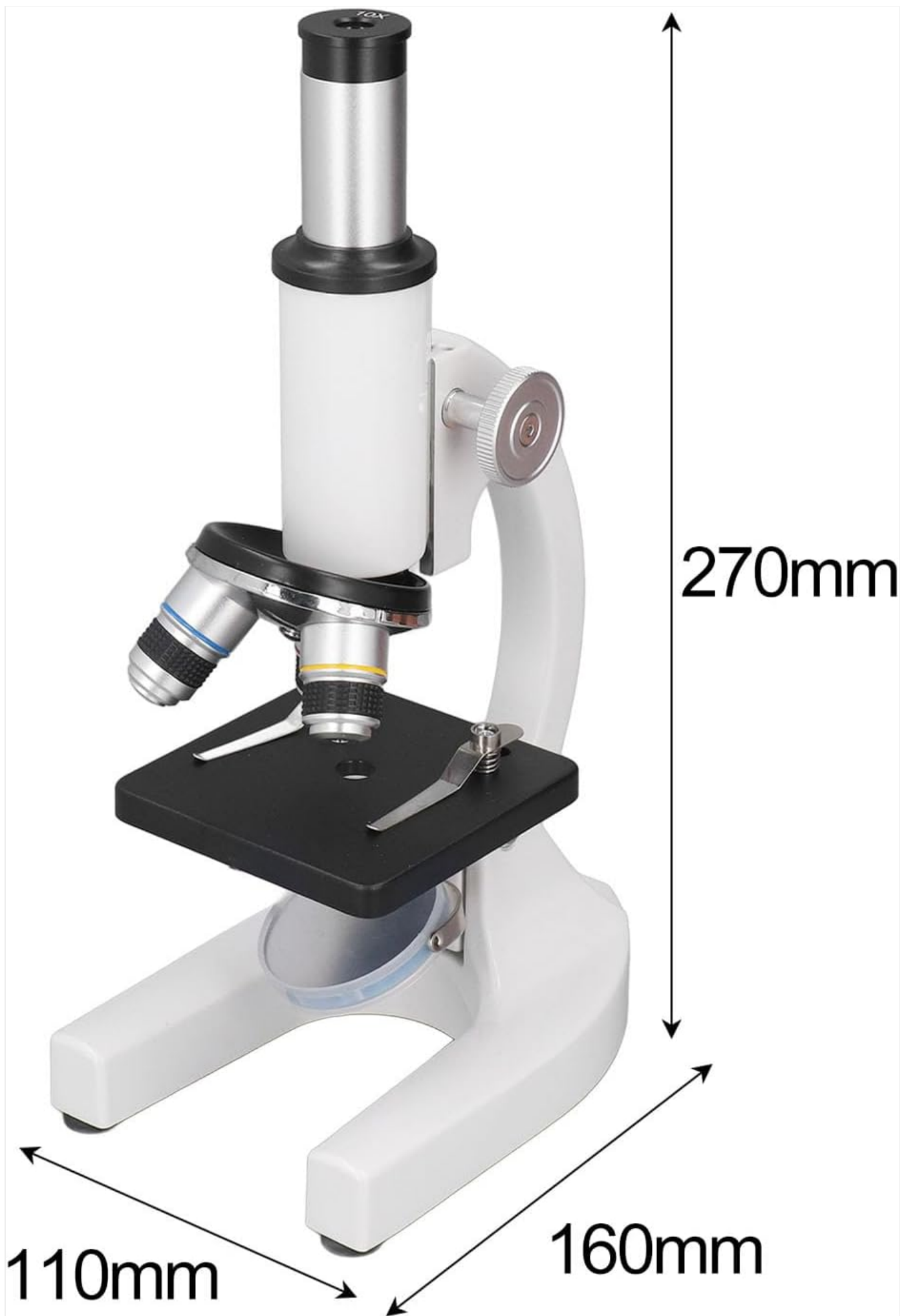


Image 9.1: Dimensions of the microscope, showing approximate height of 270mm, depth of 160mm, and width of 110mm.

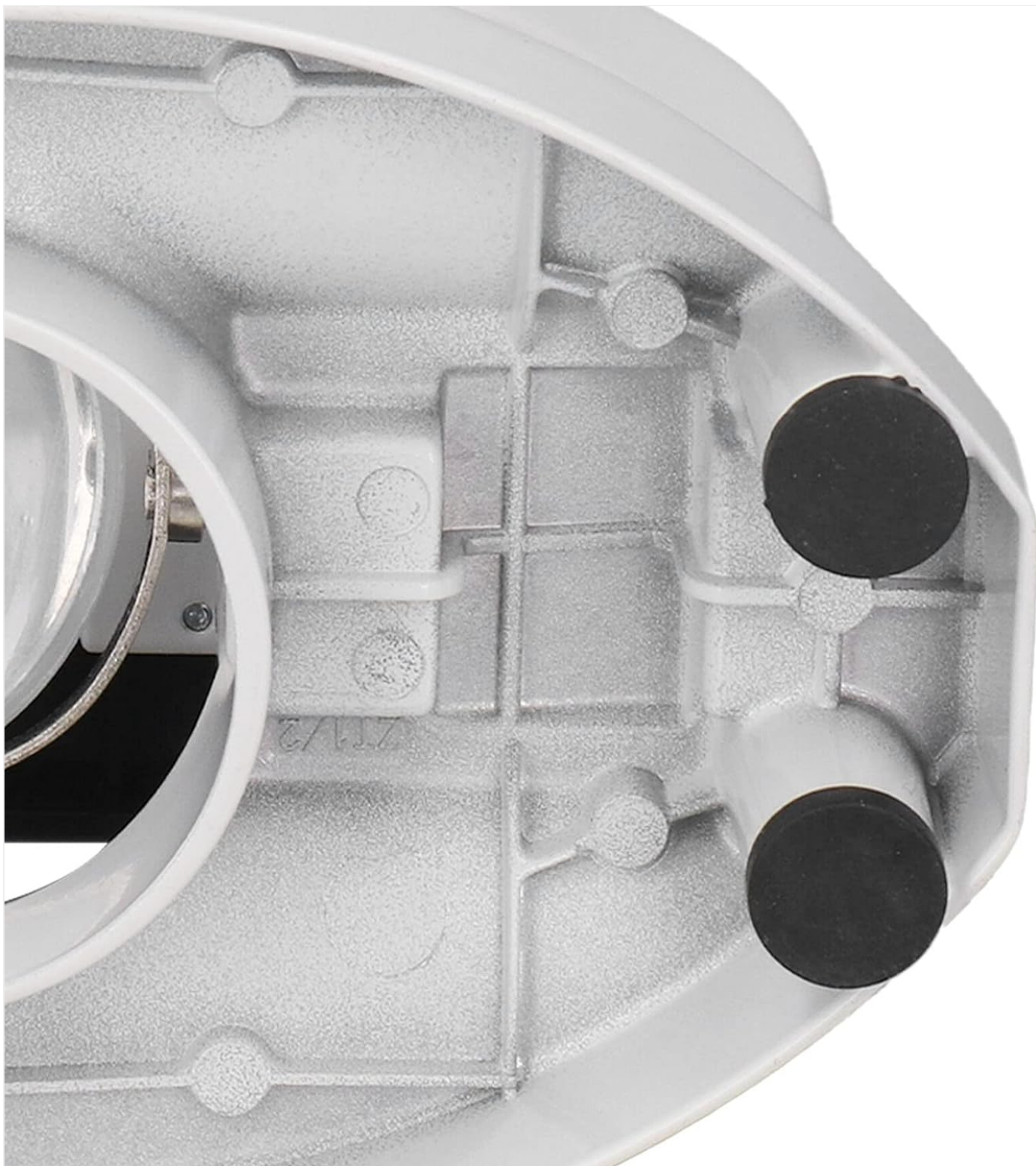


Image 9.2: View of the microscope's sturdy base with anti-slip feet.

10. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation included with your purchase or contact ANKROYU customer service directly. Keep your purchase receipt as proof of purchase. For further assistance, you may visit the ANKROYU store on Amazon: [ANKROYU Store](#)

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