**ZTBH B09Z7KD5XD**

# ZTBH Biological Microscope Kit 1200X Instruction Manual

Model: B09Z7KD5XD

## 1. Introduction

This manual provides essential instructions for the proper setup, operation, and maintenance of your ZTBH Biological Microscope Kit 1200X. Please read this manual thoroughly before using the microscope to ensure correct usage and to maximize its lifespan. This kit is designed for educational and observational purposes, offering magnification up to 1200X for detailed viewing of biological samples.

## 2. Product Components

Your ZTBH Biological Microscope Kit includes the following items:

- Biological Microscope with 300X, 600X, and 1200X objective lenses.
- Protective Carrying Case for easy transport and storage.
- Prepared microscope slides.
- Various accessories for sample preparation and observation (e.g., petri dish, vials, tools).




The ZTBH Biological Microscope Kit 1200X, neatly packed in its protective carrying case.




Dimensions of the ZTBH Biological Microscope Kit carrying case, showing its compact size for portability.




The ZTBH Biological Microscope Kit opened, displaying the microscope and various accessories organized within the case.

## 3. Setup Instructions

1. **Unpack the Microscope:** Carefully remove the microscope and all accessories from the carrying case. Place the microscope on a stable, flat surface.
2. **Install Batteries:** If your microscope requires batteries for the light source, open the battery compartment (usually located at the base) and insert the required batteries, ensuring correct polarity.
3. **Select Eyepiece:** Insert the desired eyepiece (e.g., WF10X) into the top tube of the microscope.
4. **Rotate Objective Lens:** Rotate the revolving nosepiece to select the lowest power objective lens (e.g., 300X) for initial observation.
5. **Prepare a Slide:** Place a prepared slide or your own sample on the stage, securing it with the stage clips.




The ZTBH Biological Microscope and its accessories, removed from the carrying case and ready for assembly.

## 4. Operating Instructions

1. **Turn on Illumination:** Locate the light switch or knob, usually at the base, and turn on the LED illumination. Adjust the brightness if available.
2. **Adjust Diaphragm/Filter:** Your microscope has 5 light holes and 4 light lenses (color filters). Rotate the diaphragm disc located under the stage to adjust the amount of light passing through the sample. Experiment with different color filters to enhance contrast for various samples.
3. **Focusing:**
    - Use the coarse adjustment knob (larger knob) to bring the stage up until the objective lens is close to the slide, then slowly lower it while looking through the eyepiece until the image appears.
    - Use the fine adjustment knob (smaller knob) for precise focusing until the image is sharp and clear.
4. **Changing Magnification:** To increase magnification, rotate the revolving nosepiece to a higher power objective lens (e.g., 600X or 1200X). Re-adjust the focus using the fine adjustment knob. Note that higher magnifications require more light and finer focus adjustments.
5. **Adjusting Observation Angle:** The monocular head can often be rotated for comfortable viewing.




The ZTBH Biological Microscope set up for observation, highlighting its 1200X magnification capability.




A close-up view of the microscope's light source and rotating color filter, along with examples of magnified biological samples.

## 5. Maintenance

- **Cleaning Lenses:** Use only specialized lens cleaning paper and lens cleaning solution to clean objective and eyepiece lenses. Never use abrasive materials or harsh chemicals.
- **Cleaning Body:** Wipe the microscope body with a soft, dry cloth. For stubborn dirt, a slightly damp cloth can be used, followed by a dry cloth.
- **Storage:** Always store the microscope in its protective carrying case when not in use. Keep it in a dry, dust-free environment away from direct sunlight and extreme temperatures.
- **Battery Replacement:** Replace batteries promptly when the light source dims or stops working. Remove batteries if the microscope will not be used for an extended period to prevent leakage.

## 6. Troubleshooting

- **No Light:** Check if the light switch is on. Ensure batteries are correctly installed and not depleted. Replace batteries if necessary.

- **Image Unclear:** Adjust the coarse and fine focus knobs. Ensure the objective lens is clean. Verify the slide is correctly placed and the sample is within the focal plane.
- **Dark Field of View:** Adjust the diaphragm to allow more light. Ensure the objective lens is properly rotated into position.
- **Dust Spots in View:** Clean the eyepiece and objective lenses as described in the Maintenance section.

## 7. Specifications

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|---|---|
| **Brand** | ZTBH |
| **Model** | B09Z7KD5XD |
| **Magnification Ratio** | 500X - 1500X (Maximum 1500X) |
| **Objective Lens Description** | Achromatic (300X, 600X, 1200X) |
| **Drawtube** | Monocular |
| **Light Source Type** | LED |
| **Power Source** | Battery Powered |
| **Material** | Metal |
| **Item Weight** | 2.2 pounds (1000 Grams) |
| **Microscope Size (LxWxH)** | 13x8.5x23cm (5.12x3.35x9.06 inch) |
| **Tool Box Size (LxWxH)** | 38x10.5x34cm (14.96x4.13x13.39 inch) |

## 8. Warranty and Support

For warranty information or technical support regarding your ZTBH Biological Microscope Kit, please refer to the documentation included with your purchase or contact the manufacturer directly. Keep your purchase receipt as proof of purchase.

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