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AmScope M30-ABS-KT2-W

AmScope 120X-1200X Beginner Microscope STEM Kit

Model: M30-ABS-KT2-W

INTRODUCTION

This manual provides instructions for the safe and effective use of your AmScope 120X-1200X Beginner Microscope STEM Kit. This kit is designed to introduce young users to the fascinating world of microscopy and scientific exploration.

SAFETY INFORMATION

- Always handle the microscope and accessories with care.
- Do not look directly into the LED light source.
- Keep small parts away from young children to prevent choking hazards.
- Dispose of batteries properly.
- Adult supervision is recommended for young users.

PACKAGE CONTENTS

Your AmScope M30-ABS-KT2-W kit includes the following items:

52 PIECE SET

**INCLUDES SET OF 10 PREPARED SLIDES,
LAB SHRIMP EXPERIMENT AND MORE!**



| | |
|---------------------------------------|-------------------------------------|
| 1. Microscope | 11. Needle |
| 2. Tweezers | 12. Scalpel |
| 3. Shrimp Hatchery | 13. Sea Salt |
| 4. Collecting Vials | 14. Gum Media |
| 5. Micro - Slicer | 15. Eosin Dye |
| 6. 5-Prepared Slides & 7-Blank Slides | 16. Brine Shrimp Eggs |
| 7. Petri Dish | 17. 2-AA Batteries |
| 8. 7-Cover Glasses | 18. 7-Slide Labels & 7 Slide Covers |
| 9. Graduated Cylinder | 19. Replacement Light Bulb |
| 10. Stirring Rod | 20. 20X Eyepiece |

Image: The kit contents are neatly arranged in the grey carrying case, showing the microscope, various vials, slides, tools, and a petri dish. A numbered list identifies each component.

- AmScope M30 microscope
- Shrimp hatchery
- Brine shrimp eggs
- Specimen slicer
- Petri dish
- Plastic tweezers
- Plastic scalpel
- Plastic spatula
- Needle
- Plastic stirring rod
- Graduated cylinder
- Eosin
- Gum media (bottle)
- Sea salt
- (5) Prepared slides
- (7) Blank slides
- (7) Slide covers

- (7) Slide labels
- (2) Collecting vials
- (2) AA batteries
- Spare LED bulb
- Plastic carrying case

PRODUCT OVERVIEW

The AmScope M30-ABS-KT2-W microscope features a durable metal body, adjustable magnification, and LED illumination for clear viewing.



Image: A detailed diagram highlighting the microscope's durable metal frame, battery compartment, adjustable magnification with a rotating color filter wheel, and the LED illumination system.

Key Components:

- **Eyepiece:** Where you look to view the specimen.
- **Focus Knobs:** Used to bring the specimen into clear view.
- **Objective Lenses:** Rotating turret with different magnification levels (300x, 600x, 1200x).

- **Stage:** Flat platform where slides are placed.
- **Stage Clips:** Secure the slide in place.
- **Illumination System:** LED light source and mirror for lighting the specimen.
- **Color Filter Wheel:** Adjusts the color of the light for better contrast.

SETUP

1. Battery Installation

The microscope requires two AA batteries for the LED illumination.

1. Locate the battery compartment at the base of the microscope.
2. Open the compartment cover.
3. Insert two AA batteries, ensuring correct polarity (+/-).
4. Close the compartment cover securely.

2. Initial Placement

Place the microscope on a stable, flat surface. Ensure adequate lighting in your viewing area.

OPERATING INSTRUCTIONS

1. Preparing a Slide

You can use either the prepared slides included in the kit or create your own.

Using Prepared Slides:

1. Select a prepared slide from your kit.
2. Gently place the slide on the microscope stage, securing it with the stage clips.

Creating Your Own Slides:

For observing new specimens, use the blank slides and cover slips.

1. Place a small, thin specimen (e.g., a tiny piece of leaf, a drop of water) in the center of a blank slide.
2. Carefully place a cover slip over the specimen, avoiding air bubbles.
3. Use the specimen slicer for very thin samples if needed.



Image: A young girl is shown intently looking through the eyepiece of the white AmScope microscope, demonstrating the typical user interaction during observation.

2. Adjusting Magnification

The microscope offers multiple magnification settings.

1. Rotate the objective lens turret to select your desired magnification (e.g., 300x, 600x, 1200x). Start with the lowest magnification (300x) to locate your specimen.
2. Once the specimen is found, you can switch to higher magnifications for more detail.

3. Illumination

The microscope uses an LED light source.

1. Turn on the LED light using the switch located near the base.
2. If the light is too bright or too dim, adjust the mirror at the base to reflect ambient light, or use the color filter wheel for better contrast.

4. Focusing

Use the coarse focus knob to bring the image into general focus.

1. While looking through the eyepiece, slowly turn the coarse focus knob until the specimen appears clear.
2. For finer adjustments, if available, use the fine focus knob (this model primarily uses coaxial coarse focus).

MAINTENANCE

- Keep the microscope clean and free of dust. Use a soft, lint-free cloth to wipe surfaces.
- For lenses, use specialized lens cleaning paper or a soft brush. Do not use abrasive materials.
- When not in use, store the microscope and accessories in the provided carrying case to protect them from dust and damage.
- Remove batteries if the microscope will not be used for an extended period to prevent leakage.

TROUBLESHOOTING

| Problem | Possible Cause | Solution |
|----------------------|---|---|
| No light from LED. | Batteries are dead or incorrectly installed. | Check battery polarity, replace batteries. Ensure the light switch is on. |
| Image is blurry. | Incorrect focus; wrong magnification; dirty slide/lens. | Adjust focus knob. Start with lowest magnification. Clean slide and lenses. |
| Cannot see anything. | Specimen not centered; light too dim/bright; slide upside down. | Ensure specimen is directly under the objective lens. Adjust illumination. Check slide orientation. |

SPECIFICATIONS



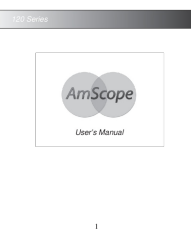
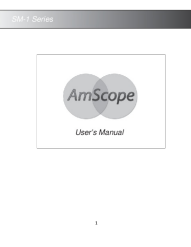
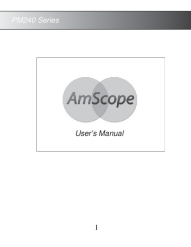
- **Model:** M30-ABS-KT2-W
- **Magnification:** 120X-1200X (300x, 600x, 1200x objective lenses)
- **Head:** Monocular
- **Light Source:** LED and Mirror Illumination
- **Focus:** Coaxial Coarse Focus
- **Power:** 2 x AA Batteries (included)
- **Material:** ABS, Metal, Plastic
- **Dimensions:** 15.75 x 14.57 x 5.12 inches
- **Weight:** 3.65 pounds

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official AmScope website or contact their customer service.

You can also find additional resources and a digital version of this manual at: [AmScope User Manual \(PDF\)](#)

Related Documents - M30-ABS-KT2-W

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|  <p>AmScope DM Series DM150-W User Manual</p> | <p>AmScope DM150-W Full HD Digital Compound Microscope User Manual</p> <p>Comprehensive user manual for the AmScope DM150-W Full HD Digital Compound Microscope, covering setup, operation, safety, and maintenance for optimal use.</p> |
|  <p>M150 Series User's Manual</p> | <p>AmScope M150 Series Microscope User Manual</p> <p>User manual for the AmScope M150 Series microscopes, covering setup, operation, maintenance, specifications, and troubleshooting.</p> |
|  <p>120 Series User's Manual</p> | <p>AmScope 120 Series Microscope User Manual</p> <p>Comprehensive user manual for the AmScope 120 Series microscopes, covering setup, operation, specifications, and troubleshooting for models like B120 and T120.</p> |
|  <p>SM-1 Series User's Manual</p> | <p>AmScope SM-1 Series Stereo Microscope User Manual</p> <p>Comprehensive user manual for the AmScope SM-1 Series stereo microscopes, covering setup, operation, specifications, and troubleshooting for models like SM-1B/T, SM-1TS/BS, and SM-1(B/T)-PL.</p> |
|  <p>PM240 Series User's Manual</p> | <p>AmScope PM240 Series Stereo Microscope User Manual</p> <p>User manual for the AmScope PM240 Series stereo microscopes, covering setup, operation, specifications, and troubleshooting for binocular and trinocular models.</p> |



[AmScope 120 Series Microscope User Manual](#)

Comprehensive user manual for the AmScope 120 Series microscopes (B120 and T120), covering setup, operation, specifications, and troubleshooting.