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## AmScope M44-KT

# AmScope IQCREW M44-KT 100X-1200X Compound Starter Microscope Kit User Manual

Model: M44-KT | Brand: AmScope

## INTRODUCTION

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This manual provides detailed instructions for the safe and effective use of your AmScope IQCREW M44-KT Compound Starter Microscope Kit. Please read all instructions carefully before operating the microscope.

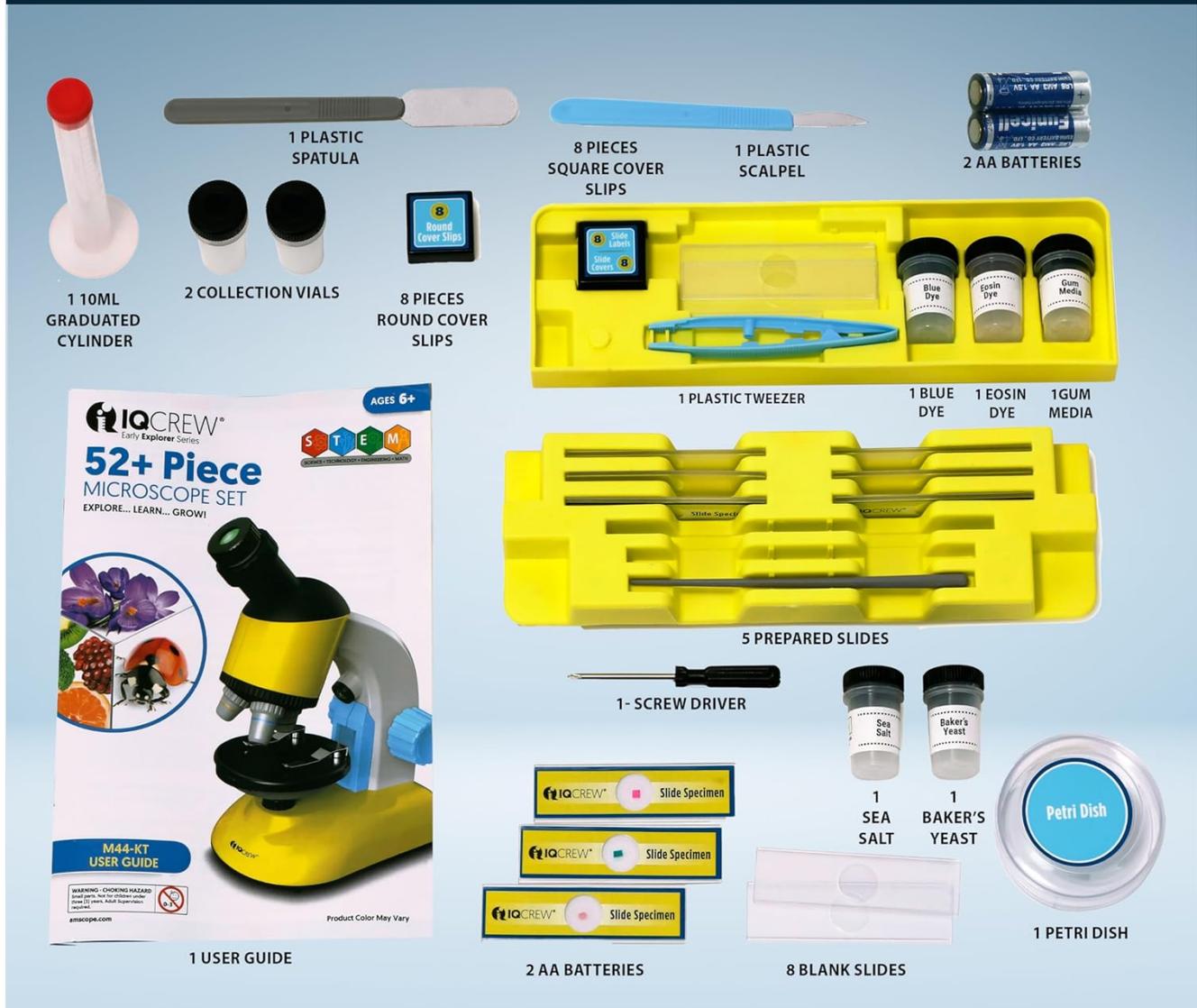
The M44-KT is designed for young scientists aged 8 and above, offering magnifications from 100X to 1200X. It features dual LED illumination, a rotating head, a disc condenser, and comes with a comprehensive accessory kit and a carrying case that converts into a mobile lab table.

## WHAT'S IN THE BOX

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Your AmScope IQCREW M44-KT kit includes the following components:

# 52+ PIECE MICROSCOPE SET



**Image Description:** A detailed view of all components included in the 52-piece microscope set. The main microscope is visible, along with various accessories such as prepared slides, blank slides, cover slips, collection vials, a graduated cylinder, plastic tools (spatula, scalpel, tweezers, stirring rod, needle), petri dish, dyes (eosin, blue), gum media, sea salt, baker's yeast, AA batteries, slide labels, and a user guide. The items are neatly arranged on a white surface.

- Beginner Microscope (100X-1200X magnification)
- Carrying Case / Mobile Lab Table
- 5 Prepared Slides
- 8 Blank Slides
- 8 Round Cover Slips
- 8 Slide Labels
- 2 Collection Vials
- 10ml Graduated Cylinder
- Petri Dish
- Plastic Scalpel
- Plastic Spatula

- Plastic Tweezers
- Plastic Stirring Rod
- Plastic Needle
- Sea Salt
- Gum Media
- Eosin Dye
- Blue Dye
- Baker's Yeast
- 2 AA Batteries
- 1 Screwdriver
- User Guide (this manual)

## SETUP INSTRUCTIONS

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1. **Unpack the Kit:** Carefully remove all components from the carrying case.
2. **Install Batteries:**

# MICROSCOPE FEATURES



DUAL  
ILLUMINATION



120X - 1200X  
MAGNIFICATION



SPECIMEN STAGE  
WITH STAGE  
CLIPS



2-IN-1 CARRYING  
CASE



ROTATING  
COLOR FILTER



360-DEGREE  
ROTATION HEAD

**Image Description:** The blue carrying case is shown with its lid open, revealing the microscope and accessories. An inset image highlights the battery compartment on the underside of the microscope, showing two AA batteries being inserted. This illustrates how the microscope is powered.

Locate the battery compartment on the underside of the microscope base. Using the provided screwdriver, open the compartment and insert the 2 AA batteries, ensuring correct polarity (+/-). Close the compartment securely.

3. **Convert Carrying Case to Mobile Lab:** The carrying case can be unfolded to create a stable mobile lab table. Follow the instructions on the case to properly set it up.
4. **Place the Microscope:** Position the microscope securely on the mobile lab table or a stable, flat surface.

## OPERATING INSTRUCTIONS

### 1. Placing a Specimen Slide

# CARRYING CASE BECOMES A MOBILE LAB

CARRYING CASE THAT FOLDS OUT AND BECOMES A MOBILE LAB . A EASY TO CARRY, PORTABLE 52 PIECE ALL-IN-ONE MICROSCOPE KIT



**Image Description:** A close-up of the microscope's stage. A hand is shown carefully positioning a prepared slide under the stage clips. This demonstrates the first step in preparing a specimen for viewing.

Place a prepared slide or your own specimen slide onto the microscope's stage. Use the stage clips to hold the slide firmly in place.

## 2. Adjusting Magnification



**Image Description:** A young girl is intently looking through the eyepiece of the yellow and blue microscope. Surrounding her are circular insets displaying magnified views of various cellular structures at 100x, 600x, and 1200x, illustrating the microscope's magnification capabilities.

- **Eyepiece:** The eyepiece offers 10X-20X adjustable magnification. Rotate the eyepiece to select your desired magnification.
- **Objective Lenses:** Rotate the revolving nosepiece to select the objective lens (10X, 30X, or 60X). The total magnification is the eyepiece magnification multiplied by the objective lens magnification (e.g., 10X eyepiece \* 10X objective = 100X total magnification).

### 3. Focusing

While looking through the eyepiece, slowly turn the coarse focus knob (the larger knob on the side) to bring the specimen into focus. Start with the lowest magnification objective for easier focusing, then switch to higher magnifications as needed.

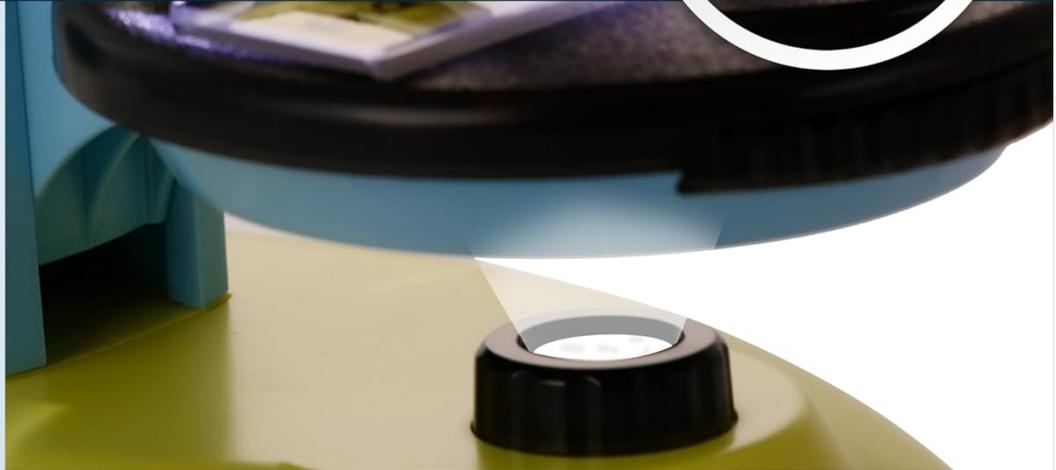
### 4. Dual LED Illumination

# DUAL ILLUMINATION

TOP AND BOTTOM LED LIGHT



**BOTTOM**  
ILLUMINATION



**TOP**  
ILLUMINATION

**Image Description:** This image highlights the dual illumination feature. The top panel shows the bottom LED light illuminating a slide from underneath (transmitted light), while the bottom panel shows the top LED light shining down onto a specimen (incident light). This demonstrates how different types of specimens can be viewed.

The microscope features both top (incident) and bottom (transmitted) LED lights. Use the switch on the base to turn on the illumination. The bottom light is ideal for transparent specimens on slides, while the top light is suitable for opaque, 3D objects.

## 5. Rotating Color Filter Wheel



### ROTATING FILTER WHEEL

**Image Description:** A hand is shown adjusting the rotating color filter wheel, which is positioned directly beneath the microscope stage. This wheel contains different colored filters that can be used to enhance contrast and visibility of various specimens.

Beneath the stage, you will find a rotating color filter wheel. Rotate this wheel to select different colored filters. These filters can enhance the contrast of transparent specimens, making certain features more visible.

### 6. Rotating Head

The monocular head can rotate 360 degrees, allowing for comfortable viewing from various angles and making it easy to share observations with others.

## MAINTENANCE

- **Cleaning Lenses:** Use only specialized lens cleaning paper and lens cleaning solution to clean the objective lenses and eyepiece. Do not use abrasive materials or household cleaners.

- **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:** When not in use, store the microscope and accessories in the provided carrying case to protect them from dust and damage. Keep the kit in a cool, dry place.
- **Battery Replacement:** Replace AA batteries when the LED illumination becomes dim or stops working.

## TROUBLESHOOTING

| Problem                    | Possible Cause   | Solution   |
|----------------------------|--|--|
| No illumination            | Batteries are dead or incorrectly installed.                                   | Check battery polarity and replace with fresh AA batteries if necessary. Ensure the power switch is ON.  |
| Image is blurry or unclear | Incorrect focus, wrong magnification, or dirty lenses.                         | Adjust the coarse focus knob. Start with the lowest magnification. Clean the eyepiece and objective lenses with lens paper. Ensure the specimen is properly placed and flat. |
| Cannot see anything        | No specimen on stage, light blocked, or objective lens not clicked into place. | Ensure a specimen slide is on the stage. Check that the illumination is on and not blocked. Rotate the nosepiece until the objective lens clicks into its viewing position.  |

## SPECIFICATIONS

- **Magnifications:** 100X-1200X
- **Head Type:** Compound Monocular, 360-degree rotatable
- **Illumination:** Built-in Dual LED (Top/Incident and Bottom/Transmitted)
- **Eyepiece:** Single zoom, 10-20X
- **Objective Lenses:** 10X, 30X, 60X
- **Stage:** 83 x 83mm with dual spring clips
- **Focusing:** Coarse focus knob
- **Condenser:** Disc condenser with color filters
- **Power Source:** 2 AA Batteries (included)
- **Material:** Plastic (ABS frame)
- **Product Dimensions:** 5.7 x 4.02 x 8.5 inches
- **Item Weight:** 3 pounds
- **Model Name:** M44-KT

## PRODUCT VIDEO OVERVIEW

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Your browser does not support the video tag.

**Video Description:** An overview video showcasing the AmScope IQCREW M44-KT 52-piece all-in-one microscope kit. The video demonstrates children using the microscope, highlights its features like dual illumination and magnification, and displays the various accessories included in the kit. It emphasizes the kit's educational value for STEM learning.

## WARRANTY AND SUPPORT

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The AmScope IQCREW M44-KT Microscope Kit comes with a 1-year warranty. For technical support, warranty claims, or further assistance, please contact AmScope customer service. Refer to the AmScope official website for contact information.

**Manufacturer:** AmScope