Specifications

Construction
Heavy cast alloy
Acid and reagent resistant finish

Head
Standard monocular head
Bearing mounted, rotates 360°
45° inclined head
10X/18 wide field eyepiece
Locked-in eyepiece with pointer

Objectives
Achromatic
4X, 10X, 40XR
Parfocal and parcentric
Three-position forward nosepiece

Stage
Spring-loaded slide clips included
Optional mechanical stage
Stage size: 90mm x 90mm

Adjustment Controls
Medium focus
Adjustable stage stop

Illumination
NA 0.65 single lens condenser
Five-position disk diaphragm
Bright white LED illumination
Bulb life of 100,000 hours

Power Supply
Rechargeable nickel metal hydride battery
Up to 40+ hours per charge
Battery life of 500 cycles
Recharges in approximately 8 hours

Warranty
1 year parts and labor for any manufacturer's defects

Dimensions and Weight
Height: 11.5"
Length: 6.25"
Width: 4.75
Weight: 3.4 lbs.

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LW Scientific

MOBI, Jr.

Instruction Manual



Model pictured:
MOBI, Jr. (EDM-M03D-DALP)
Not all features available on all models - see back page for model specifications.

- Bright LED bulb
- Rechargeable battery
- 4x, 10x, and 40x objectives

Introduction
The MOBI, Jr. microscope is designed for elementary and junior high classroom use. The LED light source combines a rechargeable battery with a bright, white LED bulb for up to 40 hours of use on a single charge. Standard features include a disk diaphragm, three hole nosepiece, and a 10x widefield eyepiece.

Recommended Upgrades:
Ask your authorized LWS dealer about additional accessories

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Unpacking and Setup

Your microscope is packaged in form-fitting molded Styrofoam for safe transportation to you. Please inspect the outer and inner containers for any visual damage. If there is damage, please contact the shipping company to place a claim. Your microscope should include the following parts:

1-Microscope body
1-10x eyepiece with pointer
3-Objectives (4x, 10x, 40x)
1-Instruction Manual
1-Dust Cover
1-Warranty Card
1-Power Charger

If any parts are missing, contact your distributor or LW Scientific.

**Note - Some parts may be packed in the outer recesses of the Styrofoam blocks.

Charging

Your microscope comes with one power charger.

1. Plug the round pin adapter into the back of the microscope.
2. Connect the opposite end into a 110v electrical outlet.
3. Your microscope will be fully charged within 8 hours. The charger is equipped with LED indicator lights to notify you when the batteries are completely charged. When only the green LED light is on, the battery is fully charged.

   Note: The microscope may be used with a partial battery charge or even no charge at all by plugging in the power charger.

Operation

1. Remove the microscope from packing material and remove all protective paper and plastic from the eyepiece, objectives, condenser, and stage.
2. Turn the LED light source on using the on/off switch on the back of the scope.
3. Place a prepared slide onto the stage, under the stage clips.
4. Position the slide so that the specimen is centered underneath the objective.
5. Turn the nosepiece to the 4x objective and look through the eyepiece.
6. Using the focus knob, bring the image into focus.
7. Now switch to the 10x then 40x objectives adjusting the focus slightly.
8. To adjust the brightness and contrast, rotate the disk diaphragm located under the stage.

Batteries

The rechargeable NiMH batteries included with this microscope have a life of 500 recharges. If you notice a shortened battery life over time, they may need to be replaced. Contact your distributor or LW Scientific for replacement batteries.

CAUTION: Do not use non-rechargeable batteries!

Remove the base of the microscope by unscrewing the four rubber feet. Next, remove the two screws that hold the black cover on the battery case. Remove the 4 old batteries and replace with new batteries from LW Scientific.

Maintenance

1. Use lens paper or a cotton swab dipped in lens cleaning solution to clean the lenses.
2. Excess fluids should be cleaned off at once. An alcohol pad is best for removing oil from the stage and the other metal parts, but is not recommended for use on the lenses. Dust in the nosepiece, or in the ocular tube, should be blown out using only filtered air (canned air dusters work well).
3. Whenever you remove an objective to clean it, we recommend you replace it as soon as you are finished cleaning. This will minimize the exposure of the interior of the microscope to foreign debris.
4. To keep your microscope in top condition for years, it is recommended that you have it professionally serviced once a year.
5. Always cover your microscope with the dust cover when it is not being used.

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