Leap Frog®

MAGIC ADVENTURES
MICROSCOPE™

Instruction Manual

This manual contains important information. Please keep it for future reference.
Ce guide contient des informations importantes. Veuillez le conserver pour toute référence future.

INTRODUCTION

Thank you for purchasing **Magic Adventures Microscope**™! Explore microworlds across various topics including flowers, insects, the human body and more with videos, images, games and learning challenges. Create your own slides or place larger samples on the tray to discover even more on this real microscope!

LCD Screen

Magnification Button

Help Button

Back Button

D-Pad

Microscope Mode Button

Zoom Dial

Slides Tray

Large Sample Tray

Reusable Slide A

Reusable Slide B

Volume Control Button

Light Adjustment Button

Power Button

microSD Card Slot*

Check Mark Button

Smart Slides

*microSD card is not included.

	Real Microscope Function			BBC Content
		Sample Thickness	Magnification Level	
Slides Tray	Reusable Slide A	Up to 1mm Example: Cloth, Paper, Onion Peel, Leaf, Hair, Flower Petal, etc.	Up to 200x (with digital zoom)	Smart Slide
	Reusable Slide B	Up to 5mm Example: Tree Bark, Cookie Crumb, Pebble, Egg Shell, etc.	Up to 200x (with digital zoom)	
Large Sample Tray	No Slide is Needed	Up to 40mm Example: Walnut Shell, Sea Shell, Coin, Rock, etc.	Up to 60x (with digital zoom)	

INCLUDED IN THE PACKAGE

- **Magic Adventures Microscope™**
- 8 double-sided smart slides
- 2 reusable slides
- 1 Quick Start Guide

WARNING
All packing materials such as tape, plastic sheets, packaging locks, removable tags, cable ties, cords and packaging screws are not part of this toy, and should be discarded for your child's safety.

NOTE
Please save this Instruction Manual as it contains important information.

ATTENTION
Pour la sécurité de votre enfant, débarrassez-vous de tous les produits d'emballage tels que rubans adhésifs, feuilles de plastique, attaches, étiquettes, cordons et vis d'emballage. Ils ne font pas partie du jouet.
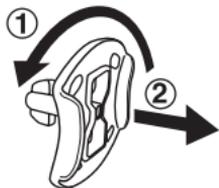
Unlock the Packaging Locks

① Rotate the packaging locks 90 degrees counterclockwise.

② Pull out the packaging locks and discard.

GETTING STARTED

Please cut and discard the cords before playing with the unit. The cords are not part of the product and should be discarded for your child's safety.

Attention: The unit is in Try-Me mode. To exit this mode, follow the steps below:
1. Press the **Power Button** or the **Check Mark Button** to turn on the unit.
2. Remove the existing **Smart Slide** from the unit when the Try-Me video begins playing.
3. Insert any other **Smart Slide** during the Try-Me video.
4. If the Try-Me mode has been successfully turned off, the screen will go to the Main Menu. If the screen doesn't go to the Main Menu, repeat steps 1-3.

INSTRUCTIONS
Battery Removal and Installation
1. Make sure the unit is turned Off.
2. Find the battery cover located on the bottom of the unit, use a screwdriver to loosen the screw and open the battery cover.

3. Remove old batteries by pulling up on one end of each battery.
4. Install 4 new AA (AM-3/LR6) batteries following the diagram inside the battery box. (For best performance, alkaline batteries or fully charged Ni-MH rechargeable batteries are recommended.)
5. Replace the battery cover and tighten the screw to secure.
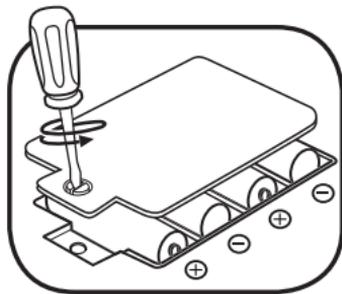
⚠ WARNING:
Adult assembly required for battery installation.
Keep batteries out of reach of children.
⚠ ATTENTION :
Les piles ou accumulateurs doivent être installés par un adulte.
Tenir les piles ou accumulateurs hors de portée des enfants.

IMPORTANT: BATTERY INFORMATION
- Insert batteries with the correct polarity (+ and -).
- Do not mix old and new batteries.
- Do not mix alkaline, standard (carbon-zinc) or rechargeable batteries.
- Only batteries of the same or equivalent type as recommended are to be used.
- Do not short-circuit the supply terminals.
- Remove batteries during long periods of non-use.
- Remove exhausted batteries from the toy.
- Dispose of batteries safely. Do not dispose of batteries in fire.

RECHARGEABLE BATTERIES
- Remove rechargeable batteries (if removable) from the toy before charging.
- Rechargeable batteries are only to be charged under adult supervision.
- Do not charge non-rechargeable batteries.

PRODUCT FEATURES

1. Power Button ⏻

Press the **Power Button** to power on or power off the **Magic Adventures Microscope™**.

\- It may take up to 3 seconds for the device to power on if an SD card is inserted.

\- Hold down the **Power Button** for approximately 1 second to power off the device.

2. D-Pad ⊙

Press the **D-Pad** to select an item on the Menu screen. While in Microscope Mode or while viewing a **Smart Slide** image, press the **D-Pad** to explore areas that aren't visible on the screen. While playing the Micro Adventure game, press the **D-Pad** to move around the screen.

3. Check Mark Button ✔

Press the **Check Mark Button** to make a selection on a menu, to take screen captures in Microscope Mode, or to interact with on-screen characters in the Micro Adventure games.

4. Help Button ?

Press the **Help Button** to hear hints and instructions.

5. Back Button ↩

Press the **Back Button** to return to the previous screen.

6. Microscope Mode Button 🔬

Press the **Microscope Mode Button** to enter the Microscope Mode and explore your own samples using the **Reusable Slides** or the **Large Sample Tray**. When a **Smart Slide** is inserted into the device, press the **Microscope Mode Button** to toggle back and forth between the Smart Slide Menu and the Main Menu.

7. Zoom Dial

Turn the **Zoom Dial** to move the camera closer or farther away from the sample while in Microscope Mode. When viewing a **Smart Slide** image, turn the **Zoom Dial** to switch between different images and to focus the image on the screen.

8. Magnification Button ⊕
While in Microscope Mode or while viewing a **Smart Slide** image, press the **Magnification Button** for a closer look at the image on the screen.

9. Light Adjustment Button ☼
While in Microscope Mode, press the **Light Adjustment Button** to adjust the brightness of the light.

10. Volume Control Button 🔉 🔊
Press the **Volume Control Button** to adjust the volume. Press the 🔉 button to lower the volume, and the 🔊 button to increase the volume.

11. Slides Tray
Insert **Smart Slides** and **Reusable Slides** into the **Slides Tray**.

12. Large Sample Tray
Place larger objects in the **Large Sample Tray** to view them in Microscope Mode.

13. Smart Slides
Insert **Smart Slides** into the slot located in the **Slides Tray** to explore different scientific topics, images and videos.

14. Reusable Slides
Place your own samples into the **Reusable Slides**, then place the **Reusable Slides** into the **Slides Tray**. Press the **Microscope Mode Button** to view your sample with the microscope.

15. Take Photos
Capture about 100 photos of your samples in Microscope Mode by pressing the **Check Mark Button**.

NOTE: This number will vary depending on the number of colors in the photo. Photos with more colors take up more memory, whereas photos with fewer colors take up less memory.

16. microSD Card Slot 🔒microSD

Use the **microSD Card Slot** to insert a microSD card (not included) and save more photos. You can also copy saved photos from the microscope's internal memory to your computer using a microSD card. See details in the Gallery section.

TO BEGIN PLAYING

Press the **Power Button** or the **Check Mark Button** to turn on the unit.

Microscope Mode

Press the **Microscope Mode Button** or select Microscope Mode from the main menu to explore your own samples using the **Reusable Slides** or the **Large Sample Tray**. The following functions are available in Microscope Mode:

- Use the **D-Pad** to scroll across the different areas of the image on the screen.
- Turn the **Zoom Dial** to bring the camera closer or farther from the sample to adjust the zoom.
- Press the **Magnification Button** for digital magnification for a closer look.
- Press the **Light Adjustment Button** to adjust the brightness of the sample light.
- Press the **Check Mark Button** to take photos of what's displayed on the screen.
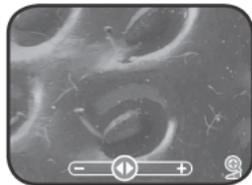
microSD card slot

• If no microSD card is inserted into the device, photos will be saved to the unit's internal memory, which can hold about 100 images.

NOTE: This number will vary depending on the number of colors in the photo. Photos with more colors take up more memory, whereas photos with fewer colors take up less memory.

- If a microSD card (not included) is inserted into the **microSD Card Slot**, all photos taken will be saved to the microSD card. The **Magic Adventures Microscope™** supports microSD cards up to 32GB.
- The maximum number of photos that can be taken is 30,096. If more than 30,096 pictures are taken, the device will overwrite existing photos with the same file name.
- Removing the microSD card or powering off the unit while taking a photo, deleting a photo, overwriting an existing photo, or while transferring a photo to the microSD card may cause the unit to freeze or result in the creation of corrupted photos. Corrupted photos will be displayed with an error icon ⊗ in the Gallery.

Smart Slides

Insert a **Smart Slide** to explore educational content with videos and images.
- Select Images from the Smart Slide Menu to explore educational images with fun facts. Use the **D-Pad** and **Zoom Dial** to view the images and explore.
- Select Videos from the Smart Slide Menu to view educational videos. Videos will automatically play when selected from the menu.
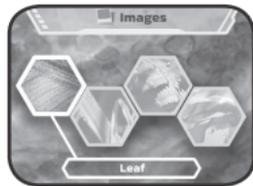
Micro Adventure Game

Beat the clock in this exciting microworld adventure game. Feed, protect, heal microorganisms and remove micro-invaders in 24 exciting levels.
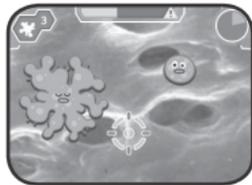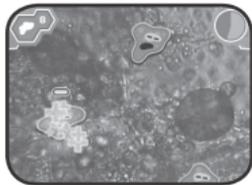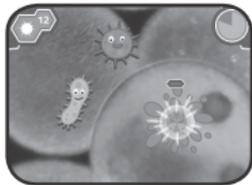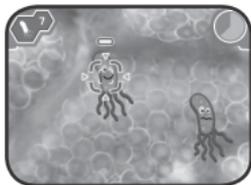
What's This? Quiz

See if you can figure out what each image is in this fun quiz. Listen to the question and then select the picture that provides the answer.
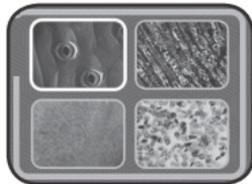
Gallery

Photos that you take of your samples in Microscope Mode can be found here.

You can also delete* saved photos in the Gallery.

*While deleting photos, do not remove the microSD card or power off the unit. Doing so may corrupt the photos or cause the unit to freeze. Corrupted photos will be displayed in the Gallery with an error icon ⊗.

If the microSD card has a large number of saved photos, it is normal for the deletion process to take longer.
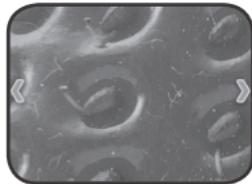
How to Copy Saved Photos from the Microscope to a Computer

1. Insert a microSD card** into the **microSD Card Slot** of the unit.
2. In the Gallery, select the Photo Transfer icon to transfer all of your saved photos from the unit's internal memory to the inserted microSD card.
3. After the photo transfer is completed***, take the microSD card out of the unit and insert it into a computer.
4. The saved photos**** are located in the microSD card's folder **#MICRO/DCIM/XXXMICRO**. XXX is a three-digit number from 100 to 403 that will be assigned to the folder name.
5. Copy the folder **XXXMICRO** directly to the computer. DO NOT cut and paste the files individually from this folder.

**The unit supports microSD cards up to 32GB (not included).
***During the photo transfer process, do not remove the microSD card or power off the unit. Doing so may corrupt the transferring photo or cause the unit to freeze. Corrupted photos will be displayed in the Gallery with an error icon ⊗.
****The saved photos will display a time and date that is not accurate, since the device does not have an internal clock.

NOTE
- Do not rename, edit or delete the folder **#MICRO** or any of its sub-folders.
- Do not add any folders to the folder **#MICRO** or any of its sub-folders.
- Do not rename, edit or delete any files in the folder **#MICRO** or any of its sub-folders.
- Do not add any files to the folder **#MICRO** or any of its sub-folders.

If a microSD card is inserted into the device with renamed, edited, deleted, or added folders or files, the Gallery may exhibit the following unexpected behaviors:
- Some saved photos may not be displayed.
- Some saved photos may be displayed with an error icon ⊗.
- The display order of the saved photos may be incorrect. New photos that are taken while in Microscope Mode may not be displayed on the first page of the Gallery.
- The thumbnails and the full-screen photos may not match each other.

This may also cause unexpected behavior when trying to take more photos while in Microscope Mode:
- The device may request to overwrite existing photos that share the same filename as the new photo being taken.

Parent Menu

A Parent Menu is available in case parents need to reset the device or reformat it. Below are the Parent Menu options.
- Option 1: Reset all curricular and game progress data.
- Option 2: Remove all Gallery photos stored on the device.
- Option 3: Reformat the internal storage on the device. All curricular and game progress data will be reset, and the Gallery photos stored on the device will be removed.

Warning: All of the actions listed above cannot be reversed once initiated.

The Parent Menu can be accessed by pressing the following sequence of buttons while viewing the Main Menu:

Up, Volume Up, Down, Volume Down, Help, Help, hold Back Button for more than 3 seconds

Battery Status

When the batteries are almost depleted, a low battery icon 🔋 will flash on the **LCD Screen**. Please replace the batteries immediately when this icon appears. The unit may automatically power off if the batteries are not replaced soon after the low battery icon 🔋 appears.

Automatic Shut-Off

To preserve battery life, the Magic Adventures Microscope™ will automatically dim the **LCD Screen** after approximately three minutes without input, then power down after approximately six minutes without input. Press any button before the device shuts off to return the **LCD Screen** to its normal brightness level. Once the unit is powered down, press the **Power Button** or the **Check Mark Button** to power it back on again.

TROUBLESHOOTING

Problem	Possible Solution(s)
The unit stopped working.	(1) Press and hold the **Power Button** for more than 10 seconds. (2) Release the **Power Button** and the unit will power back on again. It should now work properly. (3) If the unit does not work, change the batteries and press the **Power Button** to turn on the unit.
Screen is not working correctly.	(1) Press and hold the **Power Button** for more than 10 seconds. (2) Release the **Power Button** and the unit will power back on again. It should now work properly.
The **Smart Slide** inserted is not recognized.	Make sure the **Smart Slide** is the only object in the slot, and that it is fully inserted. It should be firmly placed on the **Slides Tray**.
	Make sure there is nothing in the teeth of the **Smart Slide**.

	Restart the unit by pressing the **Power Button** and try again.
Microscope Mode (without microSD card inserted) - Save Failed when taking photos	(1) Enter the Parent Menu (see the Parent Menu section for how to access this screen). (2) Select Option 2 and confirm. Once the process is finished, it should be okay to take photos while in Microscope Mode. (3) If it still isn't working correctly, select Option 3 in the Parent Menu and confirm. **NOTE:** Options 2 and 3 in the Parent Menu will remove all the saved photos from the internal memory. Please backup any wanted photos by transferring them to a microSD card first. After the photo transfer is complete, remove the microSD card. See the Gallery section for how to transfer photos to the microSD card.
Microscope Mode (with microSD card inserted) - Memory Card Error or Save Failed when taking photos	Make sure the microSD card is not larger than 32GB.
	Format the microSD card in your computer and try again. **NOTE:** All the files from the microSD card will be removed. Please backup any wanted photos by transferring them to a computer first.

Microscope Mode (without microSD card inserted) - An overwrite prompt appears every time a photo is taken	(1) Enter the Parent Menu (see the Parent Menu section for how to access this screen). (2) Select Option 2 and confirm. Once the process is finished, the overwrite prompt should no longer appear every time a photo is taken. **NOTE:** Option 2 in the Parent Menu will remove all the saved photos from the internal memory. Please backup any wanted photos by transferring them to a microSD card first. After the photo transfer is complete, remove the microSD card. See the Gallery section for how to transfer photos to a microSD card.
Microscope Mode (with microSD card inserted) - An overwrite prompt appears every time a photo is taken	Use a different microSD card that does not contain any previously saved photos from the microscope. (1) Enter the Parent Menu (see the Parent Menu section for how to access this screen). (2) Select Option 2 and confirm. Once the process is finished, the overwrite prompt should no longer appear every time a photo is taken. **NOTE:** Option 2 in the Parent Menu will remove all the saved photos from the internal memory. Please backup any wanted photos by transferring them to a microSD card first. After the photo transfer is complete, remove the microSD card. See the Gallery section for how to transfer photos to a microSD card.

Gallery - Photo Transfer Failed	Make sure the microSD card is not larger than 32GB.
	Format the microSD card in your computer and try again. **NOTE:** All the files from the microSD card will be removed. Please backup any wanted photos by transferring them to a computer first.
Gallery (without microSD card inserted) - New photos taken in Microscope Mode are not displayed on the first page of the Gallery	(1) Enter the Parent Menu (see the Parent Menu section for how to access this screen). (2) Select Option 2 and confirm. Once the process is finished, new photos taken in Microscope Mode should be displayed on the first page of the Gallery. **NOTE:** Option 2 in the Parent Menu will remove all the saved photos from the internal memory. Please backup any wanted photos by transferring them to a microSD card first. After the photo transfer is complete, remove the microSD card. See the Gallery section for how to transfer photos to a microSD card.

	Use a different microSD card that does not contain any previously saved photos from the microscope.
Gallery (with microSD card inserted) - New photos taken in Microscope Mode are not displayed on the first page of the Gallery	(1) Enter the Parent Menu (see the Parent Menu section for how to access this screen). (2) Select Option 2 and confirm. Once the process is finished, new photos taken in Microscope Mode should be displayed on the first page of the Gallery. **NOTE:** Option 2 in the Parent Menu will remove all the saved photos from the internal memory. Please backup any wanted photos by transferring them to a microSD card first. After the photo transfer is complete, remove the microSD card. See the Gallery section for how to transfer photos to a microSD card.
Gallery is always inaccessible or freezes	Remove the microSD card (if inserted).
	If a microSD card is being used, - Use a different microSD card that does not contain any previously saved photos from the microscope. - Format the microSD card on your computer and try again. **NOTE:** All the files from the microSD card will be removed when it is formatted on your computer. Please backup any wanted photos onto your computer first if needed.
	(1) Enter the Parent Menu (see the Parent Menu section for how to access this screen). (2) Select Option 2 and confirm. Once the process is finished, the Gallery should be accessible. **NOTE:** Option 2 in the Parent Menu will remove all the saved photos from the internal memory.

CARE & MAINTENANCE

1. Keep the unit clean by wiping it with a slightly damp cloth.
2. Keep the unit out of direct sunlight and away from any direct heat sources.
3. Remove the batteries if the unit will not be in use for an extended period of time.
4. Do not drop the unit on hard surfaces and do not expose the unit to moisture or water.

TROUBLESHOOTING

If for some reason the program/activity stops working, please follow these steps:

1. Turn the unit **Off**.
2. Interrupt the power supply by removing the batteries.
3. Let the unit stand for a few minutes, then replace the batteries.
4. Turn the unit **On** The unit will now be ready to play again.
5. If the unit still does not work, install a new set of batteries.

IMPORTANT NOTE:
If the problem persists, please call our **Consumer Services Department** at **1-800-701-5327** in the U.S. and Canada, or email **support**@**leapfrog.com**. Creating and developing LeapFrog products is accompanied by a responsibility that we take very seriously. We make every effort to ensure the accuracy of the information, which forms the value of our products. However, errors sometimes can occur. It is important for you to know that we stand behind our products and encourage you to contact us with any problems and/or suggestions you might have. A service representative will be happy to help you.

Environmental Phenomena

The unit may malfunction if subjected to radio-frequency interference. It should revert to normal operation when the interference stops. If not, it may become necessary to turn the power Off and back On, or remove and reinstall the batteries. In the unlikely event of an electrostatic discharge, the unit may malfunction and lose memory, requiring the user to reset the device by removing and reinstalling the batteries.

Impact de l'environnement

Une défaillance de fonctionnement de l'appareil peut survenir s'il est sujet à des interférences avec les fréquences radioélectriques. Le fonctionnement normal de l'appareil devrait reprendre avec l'arrêt des interférences. Si ce n'est pas le cas, il peut s'avérer nécessaire d'éteindre et rallumer l'appareil ou de retirer et réinstaller les piles. Dans l'éventualité peu probable d'une décharge électrostatique, un mauvais fonctionnement et une perte de mémoire de l'appareil peuvent se produire. L'utilisateur doit alors retirer et réinstaller les piles pour réinitialiser l'appareil.

Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Supplier's Declaration of Conformity
47 CFR § 2.1077 Compliance Information

Trade Name:	LeapFrog®
Model:	6161
Product Name:	Magic Adventures Microscope™
Responsible Party:	LeapFrog Enterprises, Inc.
Address:	2200 Powell Street, Suite 500, Emeryville, CA 94608
Website:	leapfrog.com

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATION.
CAN ICES-003(B)/NMB-003(B)

Visit our website for more information about our products, downloads, resources and more.

leapfrog.com
leapfrog.ca

Read our complete warranty policy online at
leapfrog.com/legal