

**RUBY® XL HD+**

**Handheld Video Magnifier  
User's Guide**

440930-001 Rev. B

Freedom Scientific, Inc.  
[www.FreedomScientific.com](http://www.FreedomScientific.com).

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## Technical Support

To contact Technical Support by email, send questions to **[support@vfogroup.com](mailto:support@vfogroup.com)**.

To contact by web, visit **[www.FreedomScientific.com/Forms/TechSupport](http://www.FreedomScientific.com/Forms/TechSupport)**, and complete the form to submit questions.

To contact by telephone, U.S. customers can call **(727) 803-8600**, Monday through Friday, 8:30 AM to 7:00 PM (Eastern Time). Please have your questions ready and be prepared to provide the following information: product name, serial number, what you were doing when the problem occurred, and how you tried to solve the problem.

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## Read Me First

- Before using RUBY® XL HD+ for the first time, you must charge its battery. A full charge takes approximately three hours.
- Refer to **Charging RUBY XL HD+** on page 10 for battery charging procedures.
- Refer to **Battery LED Descriptions** on page 12 for LED descriptions.
- For the basics to help you get started using RUBY XL HD+, read **Quick Start** on page 4.
- For an overview of RUBY XL HD+ and its operation, review the information in this guide first.
- Visit **[www.FreedomScientific.com/Forms/ProductRegistration](http://www.FreedomScientific.com/Forms/ProductRegistration)** to register your product and validate your warranty.

## Overview

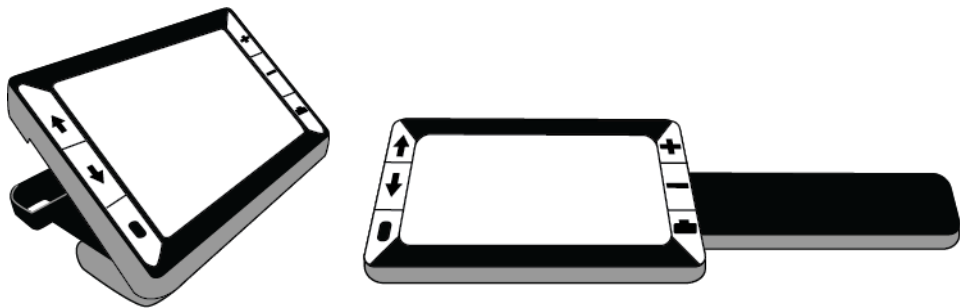
Thank you for purchasing RUBY XL HD+.

RUBY XL HD+ is a portable, handheld video magnifier that can magnify an object from two to 14 times its size. It has a 5-megapixel, auto-focus camera that provides sharp HD quality images that are easily viewed on its full color, 5-inch LCD screen. RUBY XL HD+ supports five default color modes, and 15 additional contrasting color modes that can easily be enabled.

The unit has both an integrated fold-away handle and a reading stand. The handle allows you to hold the magnifier close to an object, press the magnification buttons for continuous zoom from 2x to 14x, and then freeze the image on the screen. If you like, you can then make any necessary magnification adjustments. This is ideal for viewing clothing labels, prescription labels, price tags, receipts, business cards, and more.




With the reading stand open, you can place the unit directly on a document and read printed text or images in magazines, catalogs, menus, photographs, and other printed material.









RUBY XL HD+ can save and store up to 80 images that can easily be copied to a computer through a simple USB connection. It also has a reading line and reading masks that you can turn on and use to quickly locate and maintain your place while viewing an image or reading text on the LCD screen.

## Quick Start

Below are steps to quickly set up and use RUBY XL HD+ for the first time.

1. Make sure the unit is fully charged. Refer to page 10.
2. Press the **Power** button  to power on the unit. Refer to page 13.
3. Do one of the following.
  - Rotate and extend the handle to hold and use the unit like a magnifying glass. This is useful when it's necessary to magnify and read objects such as labels or details on cans, packages, pill bottles, and more. Refer to page 14.
  - Open the reading stand to place the unit on a flat document such as a newspaper or magazine, a bill or receipt, a letter, and so on. Refer to page 15.

4. Adjust the magnification using the **Plus** or **Minus** buttons ( or ). Refer to page 18.
5. Select a color mode ( or ) for contrasting colors that best suit your vision needs. Refer to page 19.
6. Freeze the image  on the LCD screen so that you may take your time reading details in the image. Refer to page 25.
7. Save the image or return to live view . Refer to page 31.

Once you become comfortable using RUBY XL HD+, try the following advanced features.

- Turn the LED reading lights on or off to adjust for glare and reflections when viewing photographs or glossy magazine pages. Refer to page 26.

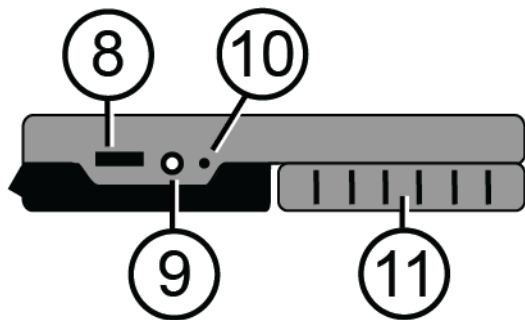
- Use the reading line or reading masks to help you maintain your place while reading text. Refer to page 27.
- Save, view, and delete images stored on the unit as described on pages 30 through 33.
- For additional storage, transfer images from the unit to your computer as described on page 35.

## Hardware Description

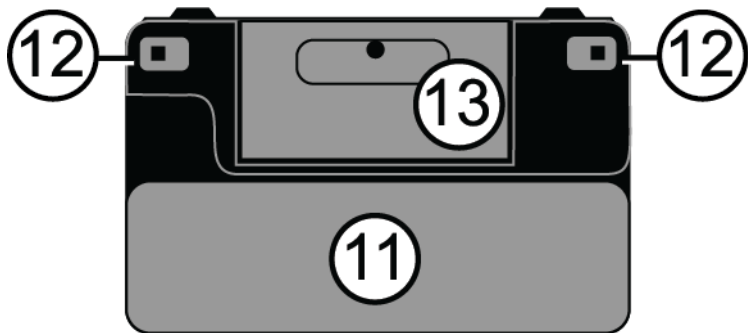


1. Color Mode Scroll Up
2. Color Mode Scroll Down
3. Power

4. Magnification Increase
5. Magnification Decrease
6. Freeze Frame
7. LCD screen



- 8. USB port (micro-USB)
- 9. Power connector (5V; 2.1A)
- 10. Battery LED
- 11. Handle in closed position



11. Handle in closed position

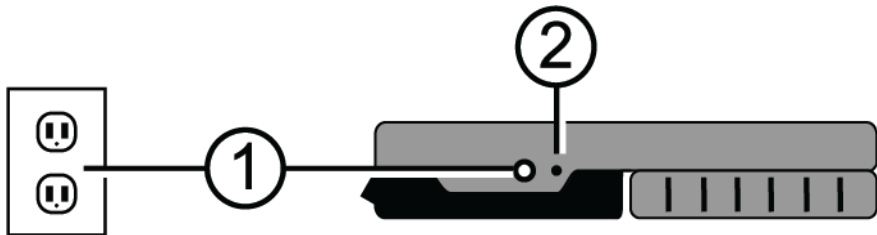
12. LED lights

13. Camera (5 MP)

## Charging RUBY XL HD+

**Note:** You must use the supplied power adapter to charge the unit. It cannot be charged using the computer's USB port.

1. Plug one end of the power adapter into the unit and the other end into a wall outlet (1).



2. The battery indicator LED blinks green to show that the battery is charging (2).



3. The LED stops blinking and glows a steady green once the battery is charged. Unplug the power adapter from the unit. The battery indicator LED turns off.
4. You can now use RUBY XL HD+ for approximately three hours of continuous use. When the battery is low, the battery indicator LED flashes red. Connect the power adapter and plug it in to recharge the battery.

## Battery LED Descriptions

**Green – Solid:** Battery charged

**Green – Flashing:** Battery charging

**Red – Flashing:** Battery low

**Red – Solid:** Battery error. Refer to **Troubleshooting**, page 41.

**Off:** Power adapter not connected

## Button Descriptions



**Power:** Press to power on. Press it again to power off.



**Magnification:** Press and HOLD for continuous zoom magnification with live images. When viewing frozen images, press and release to incrementally increase or decrease magnification.



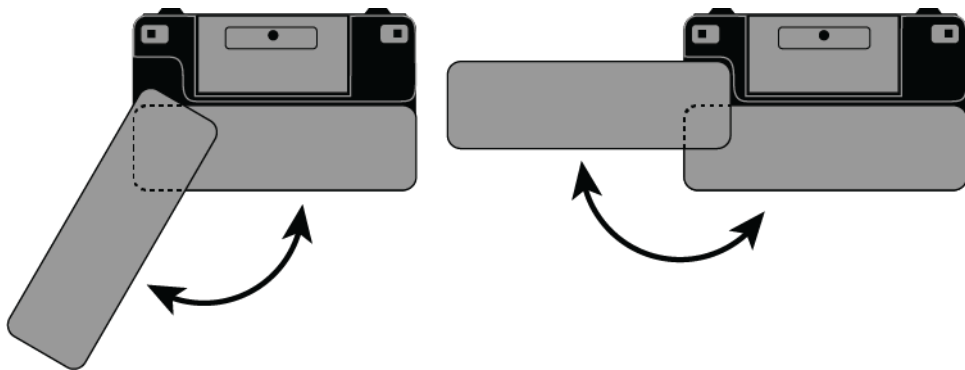
**Color Mode:** Press to cycle through five default color modes and 15 additional color modes. For a complete list, refer to **Color Modes** on page 23.



**Freeze Frame:** Press to freeze the current image. Press it again to turn off Freeze Frame mode and return to live view.

## Opening and Closing the Handle

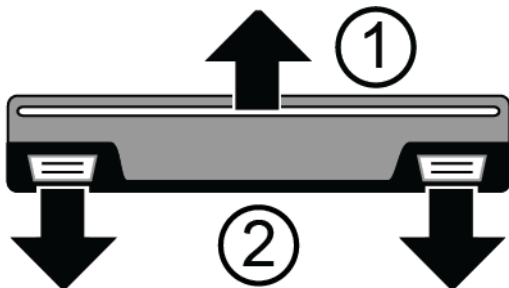
The handle rotates to two open positions so that the unit can be held like a magnifying glass.



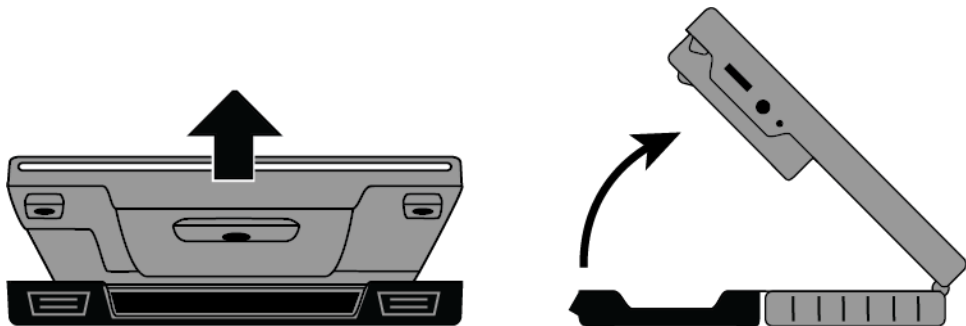
## Opening and Using the Reading Stand

RUBY XL HD+ also incorporates a reading stand so that it can be set on a document allowing you to read an item at a convenient and consistent distance.

1. On the top edge of the unit, use one thumb to push the ridge (1) in one direction while using your other thumb to push one of the tabs (2) in the opposite direction.



2. The unit is spring loaded and opens to its full reading position. If the unit is off, it automatically powers on when the reading stand opens.




3. Next, place the unit on a flat item, such as a document or photo, to view and read it.





4. When you close the reading stand, the unit automatically powers off.

## Magnifying Live Images

When viewing a live image, you can use continuous zoom magnification between 2x and 14x.

- Press and HOLD the **Plus** button  to zoom in.
- Press and HOLD the **Minus** button  to zoom out.

## Magnifying Frozen or Saved Images

You can freeze and then save an image that displays on the LCD screen. When viewing a frozen or saved image, you can zoom in or out in incremental steps by pressing the **Plus** or **Minus** buttons ( or ).

For steps to freeze an image, refer to **Freezing an Image** on page 25.



To access saved images, refer to **Saving and Deleting an Image** on page 31.





## Changing Color Modes

A color mode is a pre-defined color combination (for example, yellow text on a blue background) that you can select when reading items with RUBY XL HD+.

The unit has five default color modes: Full Color; Black on White (high-contrast positive); White on Black (high-contrast negative); Yellow on Blue; Yellow on Black; and 15 additional color modes. For a complete list, refer to **Color Modes** on page 23.

- Press the **Up** or **Down** arrow buttons ( or ) to change the current color combination on the LCD screen.



The **Up** arrow button  cycles in one direction through the color combination list while the **Down** arrow button  cycles in the other direction.

## Switching Between the Last Used Color Mode and Full Color



RUBY XL HD+ provides the convenience of quickly switching between the last color mode used and full color, or vice versa.

This shortcut is useful when looking at a live image (for example, while holding and reading a document) and using a color mode that provides the best contrast for you. If you need to move the unit to a different part of the document, it may be easier to switch to full color, move to the new location, and then return to your color mode selection and continue reading.



To do this,

- Press and HOLD the **Power** button , and then press the **Down** arrow button . The screen changes from one mode to the other.
- To switch back, repeat the same button sequence again.



## Adding and Removing Color Modes

RUBY XL HD+ has five default color modes. You can also activate and choose from a variety of 15 other color modes. Once a color mode is available, you can easily switch to it using the **Up** or **Down** arrow buttons ( or ).



To add or remove other color modes, do the following:

1. Press and HOLD the **Power** button  and then press the **Up** arrow button  to enter Color Selection mode.



The Enable check box ☒ displays indicating that the current color mode is active.

2. To disable the current color mode, press the **Down** arrow  while STILL holding the **Power** button . This clears the check box ☐.

**Note:** By disabling a color mode, it is no longer available as you cycle through the color modes using the **Up** or **Down** buttons during normal operation.



3. To scroll to the next color mode, press the **Up** arrow  while STILL holding the **Power** button .

  - If the check box is selected ☒, the color mode is enabled.
  - If the check box is cleared ☐, the color mode is disabled.

4. To enable or disable a color mode, press the **Down** arrow  while STILL holding the **Power** button  to select or clear its check box.
5. Repeat steps 3 and 4 to continue adding or removing color modes.
6. When you are finished loading color modes, release all buttons. Any color mode changes made will be saved, and the unit will return to normal operating mode.

## Resetting Default Color Modes

If you have added or removed color modes that display on the screen, you can always restore RUBY XL HD+ to its five default color modes.

- Press and HOLD the **Power** button  and the **Up** arrow button  simultaneously for 15 seconds.

## Color Modes

There are five factory default color modes and 15 additional color modes that you can make active.

### Default Color Modes

1. Full Color (always available, cannot be disabled)
2. Black on White – high-contrast positive


3. White on Black – high-contrast negative
4. Yellow on Blue
5. Yellow on Black

### **Additional Color Modes**

- |                   |                  |                       |
|-------------------|------------------|-----------------------|
| ■ Black on Yellow | ■ Blue on Black  | ■ Black on Amber      |
| ■ Green on Black  | ■ Blue on Yellow | ■ Violet on Black     |
| ■ Black on Green  | ■ Red on Black   | ■ Black on Violet     |
| ■ White on Blue   | ■ Black on Red   | ■ Red on White        |
| ■ Black on Blue   | ■ Amber on Black | ■ Black on Light Blue |


## Freezing an Image

Freezing an image on the LCD screen can be useful for reading labels on items on a store shelf. By holding the unit close to the item and freezing the image, you can then hold it close enough for you to read.

1. Press the **Freeze Frame** button  to freeze the image.





If you like, press the **Plus** button  to increase magnification, or the **Minus** button  to decrease magnification.

2. Press the **Freeze Frame** button  again to turn off Freeze Frame mode and return to the live view.

**Note:** To save a frozen image, press and HOLD the **Freeze Frame** button  for three seconds. Refer to **Saving and Deleting an Image** on page 31 for more information.

## Turning Off LED Lights

When you power on RUBY XL HD+, the LED lights also turn on. To avoid glare when viewing reflective surfaces, you can turn off the LED lights.

1. Press and HOLD the **Power** button , and then press the **Freeze Frame** button . The LED lights turn off.
2. To turn on the lights again, press and HOLD the **Power** button , and then press the **Freeze Frame** button .




**Note:** When the reading stand is closed, the unit automatically powers off.

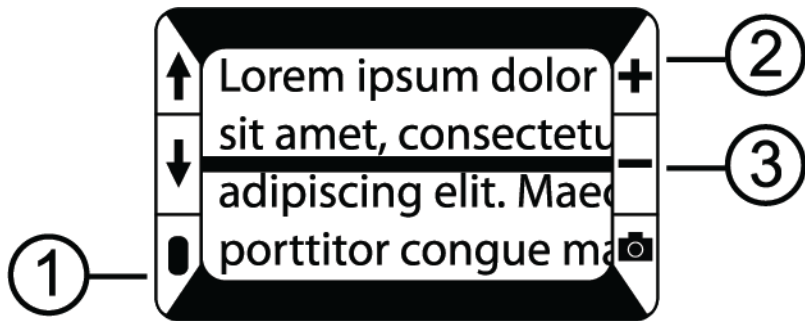


## Using Reading Line or Reading Masks

The reading line is a horizontal line that displays on the screen. Reading masks block part of the screen to show a horizontal slice of the screen. Use these items to help you locate and maintain your place while viewing an image. When using the button sequence as described below, the unit cycles through displaying the reading line, the reading masks, and then no reading line or masks.

### Displaying Reading Line

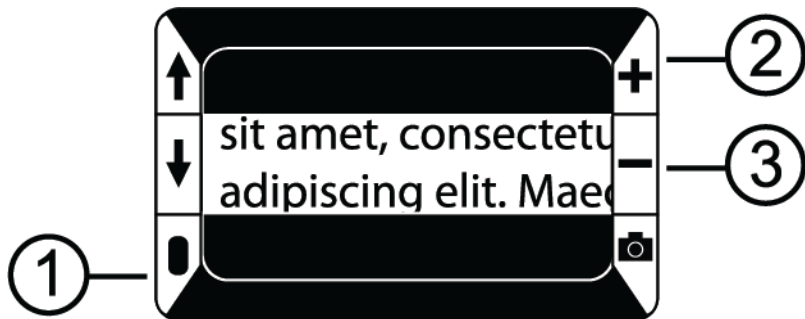
1. Press and HOLD the **Power** button  (1) and then press both **Magnification** buttons ( (2) and  (3)). The reading line displays on the screen as shown in the next figure.









2. Press and HOLD the **Power** button (1) and then press the **Plus** button + (2) or the **Minus** button - (3) to move the reading line up or down on the screen.

## Displaying Reading Masks

1. Press and HOLD the **Power** button (1) and then press both **Plus** and **Minus** (+ (2) and - (3)) again to remove the reading line and display the reading masks on the screen as shown in the next figure.




2. Press and HOLD the **Power** button  (1) and then press the **Plus** button  (2) or the **Minus** button  (3) to increase or decrease the distance between the masks.
3. To remove reading masks from the screen, press and HOLD the **Power** button  (1) and then press and HOLD both **Plus** and **Minus** buttons ( (2) and  (3)).

## Storage Mode




Storage mode can save up to 80 images. When you first store an image, it is saved with the current magnification and color settings just as displayed on the screen. When viewing a saved image, you can change the magnification level.

## Saving and Deleting an Image

After freezing an image on the screen, you can save it by doing the following.



1. Press and HOLD the **Freeze Frame** button  for three seconds to enter Storage mode.
2. The Save Image check box ☒ is automatically selected and displays for three seconds. This indicates that the image will be saved after exiting Storage mode and returning to live view.

To delete an image while in Storage mode,


1. Press and HOLD both **Magnification** buttons ( and ) to clear the check box ☐. When you exit Storage mode, the image is deleted.
2. Press and HOLD the **Freeze Frame** button  for three seconds to exit and return to live view.






## Viewing Saved Images

RUBY XL HD+ can store up to 80 images. You can easily scroll through the images using the blue arrow buttons (↑ and ↓).

1. Press and HOLD the **Freeze Frame** button  for approximately six seconds to enter Review mode.
  - To scroll forward through the saved images, press the **Up** arrow (↑).
  - To scroll backward through the saved images, press the **Down** arrow (↓).
2. Press and HOLD the **Freeze Frame** button  for approximately three seconds to exit and return to live view.

## Saving an Image When Memory is Full

RUBY XL HD+ can store approximately 80 images. If you try to save another image when the unit's memory is full, the Memory Full icon  displays on the screen. To add another image, you must first remove one or more saved images from memory.

1. Press the **Up** arrow  or the **Down** arrow () to step to an image that you want to delete.
2. Press both **Magnification** buttons ( and ) to clear the check box ☐.
3. Press and HOLD the **Freeze Frame** button  for three seconds to exit Storage mode. The new image is saved, and all unchecked images are deleted.

**Note:** To free space on the unit, you can move images to a computer. For more information, refer to **Transferring Images** on page 35.

## Storage Mode Icons



**Save:** Press **Plus** and **Minus** (+ and -) at the same time to select the check box. The image is saved when you exit Storage mode.




**Delete:** Press **Plus** and **Minus** (+ and -) at the same time to clear the check box. The image is deleted when you exit Storage mode.



**Advance:** Press the **Up** or **Down** arrows (↑ or ↓) to move to the next or previous image.



**Memory Full:** Indicates that the maximum number of images have been saved on the unit. You must mark one or more images for deletion  before you can save the current image.



## Transferring Images

Images stored on RUBY XL HD+ can be transferred to your computer using the supplied USB cable. Any image moved from RUBY XL HD+ to your computer can easily be moved back to the unit. To do this, do the following:

1. Connect the supplied USB cable to the unit (1) and the computer.



2. When connected,
  - The USB symbol and battery icon briefly display on the LCD screen.



- The battery icon indicates the current battery status.

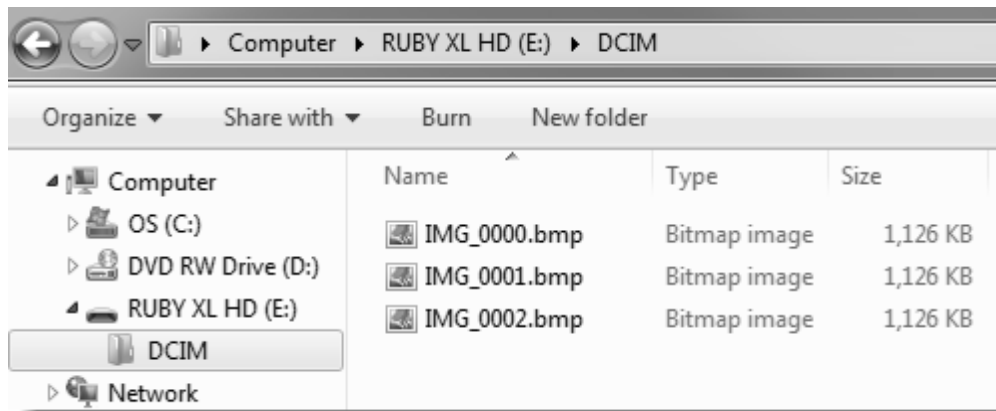
**Note:** The unit does not charge and images do not display on the screen while it is connected to a computer's USB port.

- RUBY XL HD+ displays as an external device in Windows Explorer or Finder (Mac).

3. To transfer images, do one of the following:

#### **From RUBY XL HD+ to a computer**

- Open the RUBY XL HD+ DCIM folder and select and move one or more images to a folder that you can easily find on your computer.
- Images are named and are numbered in the order saved, for example, IMG\_0001.bmp, IMG\_0002.bmp, and so on as shown in the next figure.



**Figure 1. Image files in DCIM folder**

## **From a computer back to RUBY XL HD+**

**Note:** Only images saved by RUBY XL HD+ can be copied back to the unit.

- Locate the image on your computer using Windows Explorer or Finder (Mac).
  - Select the image and move it to the RUBY XL HD+ DCIM folder.
4. When you are finished transferring files, make sure that you safely eject (remove) the unit from your computer.

**Note:** To safely disconnect the unit and protect your data, always follow your operating system's procedures for removing a USB device.




## Displaying a Slide Show

You can create a slide show that loops continuously using the images saved on the unit. Each image displays for approximately five seconds. The order that images display is based on their file names, for example, IMG\_0001.bmp, IMG\_0002.bmp, and so on.


To rearrange the order that images display, you can transfer them to your computer, rename the files in the order that you like, and then transfer them back to the unit. (The file names should not be longer than eight characters followed by the BMP file extension.) To move files between the unit and computer, refer to **Transferring Images** on page 35.

**Note:** When in Slide Show mode, the 30-minute power-off timer is disabled.

To start the slide show, do the following:


1. Press and HOLD the **Freeze Frame** button  for approximately six seconds to enter Review mode.
2. Press and HOLD the **Power** button , and then press the **Up** arrow .

The first image stored on the unit, based on its file name, displays on the LCD screen for approximately five seconds followed by the second image, the third, and so on.

3. Press and HOLD the **Freeze Frame** button  for approximately three seconds to exit Slide Show mode and return to live view.

## Troubleshooting

### The unit does not power on.

- Press the **Power** button . If the unit does not power on, charge the battery.

**Note:** The battery does not charge when the unit is connected to a USB port.

### The screen is blank.

- If the unit is sitting on a flat surface (a desk or document), the screen is blank (black). Lift the unit off the surface, or open the reading stand.
- When the unit is connected to a computer via USB, the screen is blank.
- Power the unit off and then on again.

- Verify that the item you want to magnify is positioned correctly under the camera window.
- Press the **Magnification** buttons (**+** or **-**) to step through the magnification levels.
- Press the **Color Mode** buttons (**↑** or **↓**) to step through the color modes.
- When the reading stand is closed, the unit automatically powers off.

### **The battery LED is flashing red.**

- Charge the battery.

### **The battery LED is solid red while the power adapter is connected to the unit.**

- A battery error has occurred. Unplug the power adapter from the unit and plug it in again.



- If the problem continues, disconnect the power adapter and contact Technical Support. See page ii.

**The battery indicator LED does not flash green, even though the power adapter is connected and plugged into a wall socket.**

- Ensure that the small end of the power adapter is firmly plugged into the unit's power port.
- Ensure that the outlet has power and is not malfunctioning. If the outlet is connected to a wall switch, make sure the switch is on.

**The battery is not charging.**



- Use the **supplied** power adapter to charge the unit. The battery does not charge when the unit is connected to a USB port.
- Make sure the small end of the power adapter is firmly plugged into the unit's power port.

- Ensure that the outlet has power and is not malfunctioning. If the outlet is connected to a wall switch, make sure the switch is on.



### **There are smudges or blemishes on the screen.**

- Clean the LCD screen as described in **Cleaning Procedures** on page 51.

### **Text is too small or too large to read.**

- Press the **Magnification** buttons ( or ) to increase or decrease magnification. For live images, press and HOLD a **Magnification** button for continuous zoom magnification. For frozen or saved images, press a magnification button to zoom in or out one step at a time.

### **LED lights produce glare against a reflective surface.**

- Press and HOLD the **Power** button , and then press the **Freeze Frame** button  to turn off the LED lights.

## **The unit powers off after reading for 30 minutes.**

- This is expected behavior. The unit powers off after 30 minutes if no buttons are pressed. This extends battery life.

## Technical Specifications

- **LCD widescreen:** 5 inches (127 mm); tilts approximately 40 degrees in reading mode
- **Body size:**  
5.5 inches high (139.7 mm)  
3.5 inches wide (88.9 mm)  
0.8 inches deep (20.3 mm)
- **Weight:** 10.5 oz. (298 grams)
- **Color modes:** Five factory default color modes (Full Color; Black on White (high-contrast positive); White on Black (high-contrast negative); Yellow on Blue; Yellow on Black), and 15 additional color modes
- **Magnification range:** 2x to 14x zoom
- **Maximum saved images:** Approximately 80 bitmap (BMP) images

- **Camera:** 5 MP HD, auto-focus camera
- **Image resolution:** 800 x 480 pixels
- **Color:** 24-bit
- **Battery:** Li-ion battery; approximately 3 hours of continuous use; charges in approximately 3 hours

**Note:** Only use the supplied power adapter to charge the battery.

## **Federal Communications Commission Notice**

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:

- 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.
- Reorient or relocate the receiving antenna.
- Consult the dealer or an experienced radio or television technician for help.

## Industry Canada Notice

- This Class B digital apparatus complies with Canadian ICES-003.  
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

## Regulatory Compliance

- **Safety:** IEC 60950-1 ed2.0, UL 60950-1:2007, CSA C22.2.60950-1:2007, EN 60950-1:2006 + A11:2009 + A1:2010 + A12:20122
- **EMC:** FCC (CFR-47, part 15) Class B; ICES-003; EN 55022 Class B; EN 55024



Class 1 LED Product

## **Safety and Maintenance**

- Do not attempt to repair the unit or open its case. This product contains no user serviceable parts. Any unauthorized attempt to service or replace internal components will void the product warranty.
- Do not remove the battery. It is not user serviceable.
- Keep the unit away from wet areas, rain, and other sources of liquids. Do not submerge the unit.
- Always operate the unit in a place where the temperature is between 10° and 35° C (50° and 95° F).
- Do not store in places subject to temperature extremes such as a parked car.
- Do not force any connector into the unit's power port. The power connector fits easily into the port.



## Cleaning the LCD Screen

- Power off and unplug the unit before cleaning the LCD screen.
- Always use a clean microfiber cloth.
- Very gently wipe the cloth across the screen. Do not press hard on the cloth or screen.
- If you use a cleaning liquid, use an appropriate LCD cleaning liquid. You can also use distilled water, isopropyl alcohol, or vinegar mixed with water at a concentration of no more than 10 percent vinegar. Note that tap or mineral water may cause spotting on the screen. Do not leave any liquid on the screen. Repeat this procedure for hard to remove smudges.
- **Do not** spray any cleaning solutions directly on the LCD screen.
- **Do not** use a cleanser that contains acetone, ethyl alcohol, ethyl acid, ammonia, or methyl chloride.
- **Do not** use a paper towel to clean the LCD screen.

## Cleaning the RUBY XL HD+ Body

- Make sure the unit is unplugged. Use a lightly dampened, soft, clean cloth with water or mild detergent. Do not use alcohol, solvents, abrasives, or aerosol sprays.

## Warranty and Registration

Congratulations on your purchase of the RUBY XL HD+ Handheld Video Magnifier.

The unit and its accessories come with a 2-year warranty against manufacturing defects.

**Note:** These devices have no user-serviceable components. Any unauthorized attempt to service or replace internal components by opening the case will void the product warranty.

Please call Technical Support at (727) 803-8600 for assistance in troubleshooting any problems. If necessary, the technical support specialist will issue a Return Materials Authorization (RMA) number that must be referenced on the outside of the package containing your returned unit. Your unit or its accessory will then be exchanged or repaired as needed.

## Product Registration

Visit **[www.FreedomScientific.com/Forms/ProductRegistration](http://www.FreedomScientific.com/Forms/ProductRegistration)** to register your product and validate your warranty.

## **Notes**

## Notes