

ONYX[®] Deskset HD
Portable Video Magnifier
User's Guide

Freedom Scientific, Inc.
www.FreedomScientific.com

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Freedom Scientific
11800 31st Court North
St. Petersburg, Florida 33716-1805
USA
www.FreedomScientific.com

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Safety and Maintenance

To keep the unit in good condition and to ensure safe usage, observe the following guidelines:

- Read the instructions in this user's guide before attempting to use the unit.
- Do not attempt to repair the unit or open its case. This product contains no user serviceable parts.
- Do not attempt to modify the remote control. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- Keep the unit away from wet areas, rain, and other sources of liquids or high humidity. Do not submerge the unit.
- Always operate the unit in a place where the temperature is between 10° and 40° C (50° and 104° F).
- Always store the unit in a place where the temperature is between -20° and 65° C (-4° and 149° F).
- Always use the unit on a stable, level, hard surface such as a desk or table.

- When cleaning the screen, unplug the power cord and apply a small amount of non-abrasive cleanser, such as the following, to a soft, lint-free cloth and gently wipe:
 - Water
 - Isopropyl alcohol
 - Petroleum benzene
 - Vinegar mixed with water at a concentration of no more than 10 percent vinegar, for example, 1.5 tablespoons of vinegar per cup of water (100 ml per liter)

CAUTION:

Do not apply excessive pressure to the screen. Do not spray cleanser directly on the screen. Also, do not use any cleanser that contains the following agents: acetone, ethyl alcohol, ethyl acid, ammonia, or methyl chloride.

When cleaning the rest of the unit, make sure the unit is unplugged. Use a lightly dampened, soft, clean cloth with water or mild detergent.

Federal Communications Commission (FCC) Compliance Statement

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.

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 or television 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.

Industry Canada (IC) Compliance Statement

CAN ICES-3(B)/NMB-3(B)

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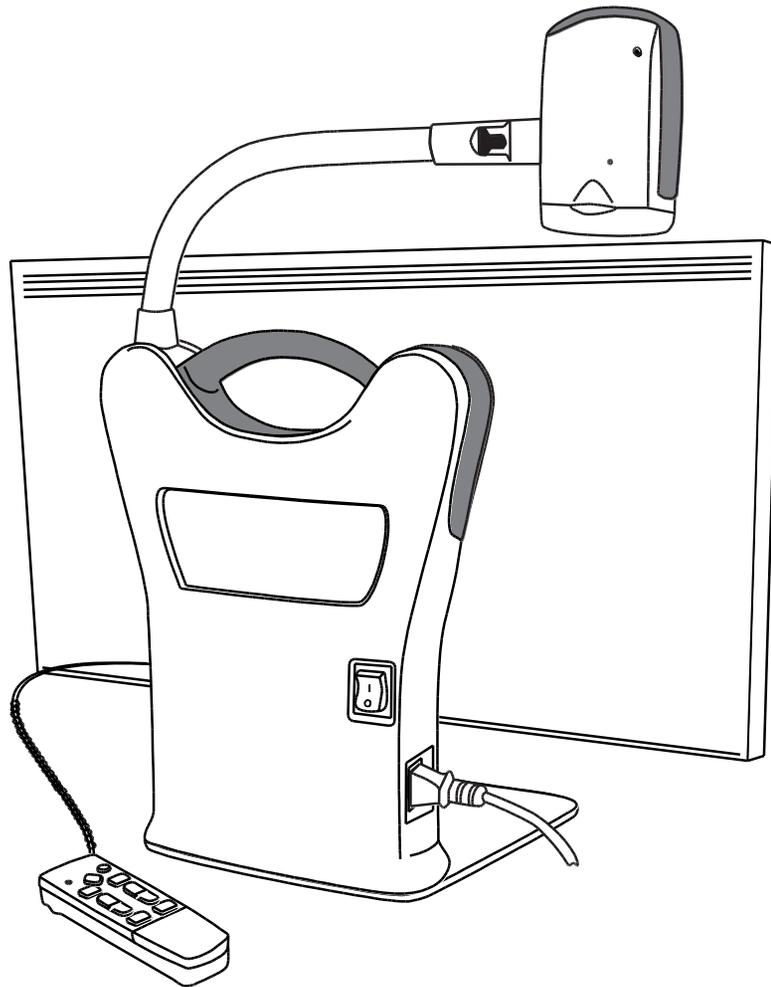
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The ONYX[®] Deskset HD makes seeing printed type, pictures, handwriting, and small details easier than ever before. Its integrated carrying handle makes it very easy to transport.

The unit includes the following features:

- Document reading
- Distance reading
- Self-viewing
- Auto Focus creates the clearest view without any need to make adjustments
- Increase or decrease brightness
- Shading and Masking
- Reading Lines
- Freeze Frame
- Find function to easily target distant objects
- Camera arm rotates 330 degrees
- Camera tilts 315 degrees and swings 180 degrees

ONYX Deskset HD Components



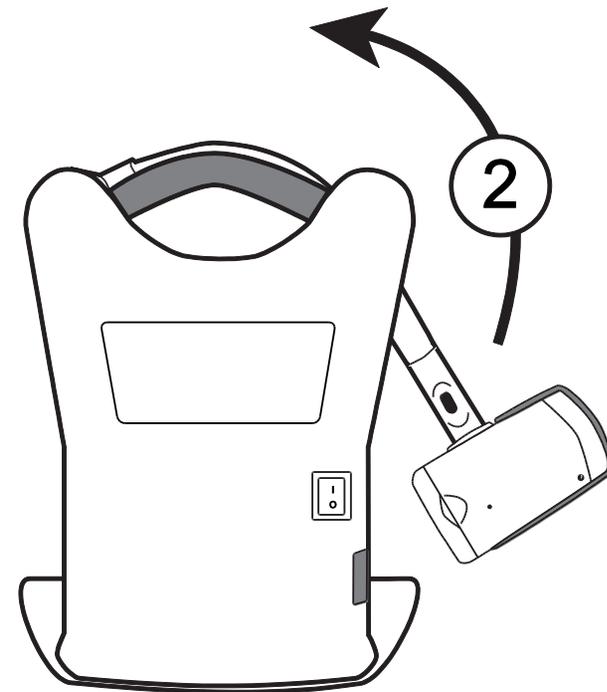
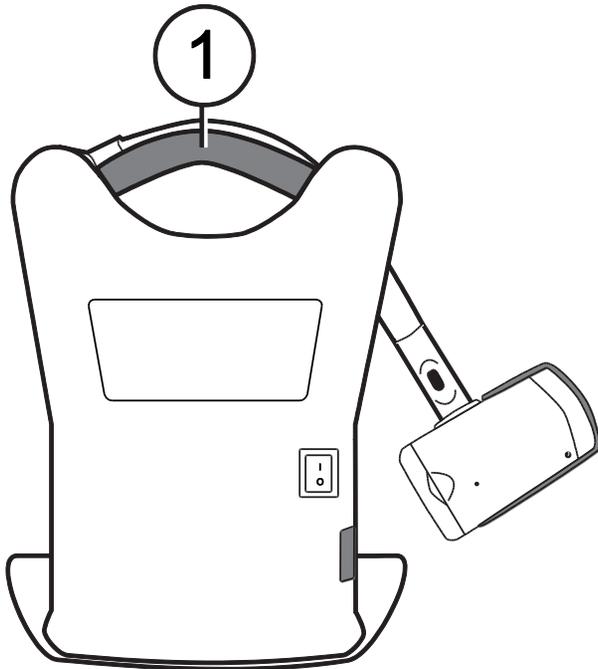
What's in the Box

- ONYX HD magnifying camera connected to a rotating camera arm
- 24-inch, 22-inch, or 20-inch flat-panel HD monitor
- Remote control
- Power cord
- User documentation
- Wheeled carrying case (optional)

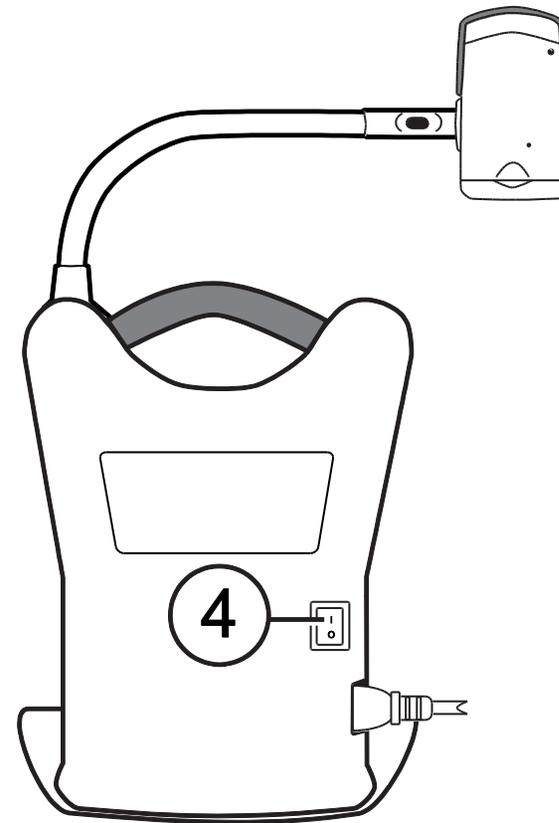
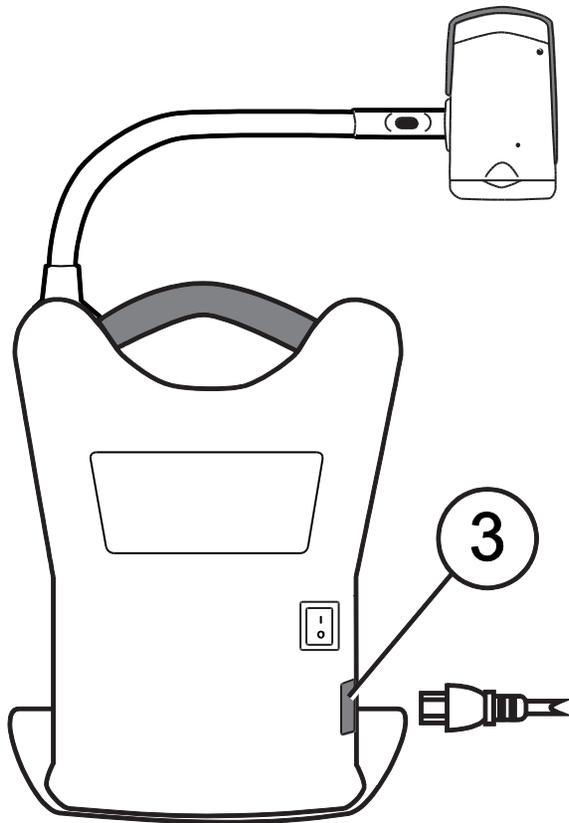
Setting Up the Unit

Use the following procedures to set up and turn on the unit.

1. Use the unit's carrying handle to place it on a sturdy and stable work surface such as a desk or table.
2. Raise the camera arm until it locks in the upright position.



3. Connect the power cord to the unit and an AC outlet.
4. Flip the main power switch on the back of the unit to power on both the monitor and the camera. The green Power LED on the bottom of the camera indicates there is power to the unit.



5. Adjust the monitor tilt by holding the left and right sides of the monitor, and then gently tilting it forward or backward until it reaches a position that is comfortable for you.

Powering the Unit Using the Remote Control

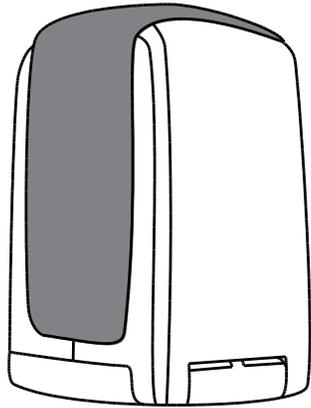
Press the green **POWER** button  (upper left corner of the remote control) to turn the camera on and off.

When the camera is on, a green LED on the bottom of the camera is on.

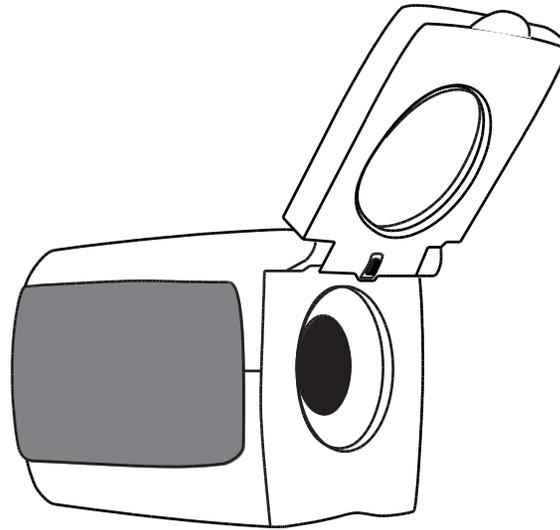
If an image does not appear on the screen, try the following:

- Flip the main power switch on the back of the unit to the On (I) position
- Press the green **POWER**  button on the remote control and make sure that its LED flashes red
- Make sure the power cord is connected to the unit
- Make sure the power cord is plugged into a wall outlet
- For more solutions, refer to *Troubleshooting* on page 32

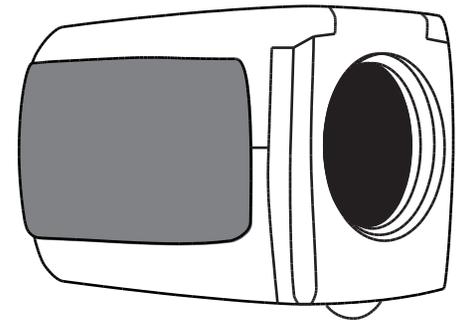
Positioning the Camera for Long Distance or Close-up Work



For reading items placed under the camera, keep the close-up lens closed and the camera pointing down.



For long distance viewing, keep the close-up lens open.



Keep the close-up lens closed for:

- Looking at nearby objects
- Self-viewing (camera rotated and pointing at yourself)

Saving Camera Settings

Any changes made to camera settings (for example, color mode, magnification) are saved for that camera position: distance, reading, or self-viewing. This allows you to have a unique configuration for each camera position.

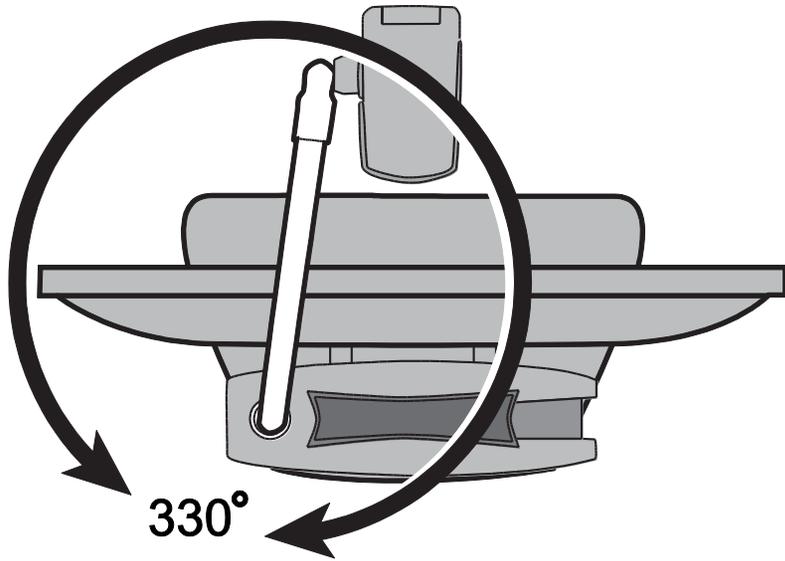
For example, for reading, you can use yellow on black as your color mode to provide a strong contrast between foreground text and a solid background. When you rotate the camera for self-viewing, you can have a different configuration that automatically switches to true full color with less magnification.

To permanently save these settings after creating your preferences:

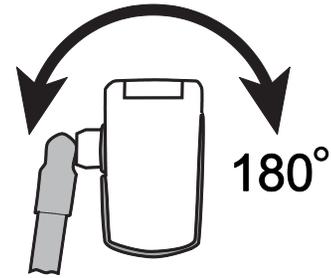
- Press the green **POWER** button  (upper left corner of the remote control) to power off the unit
- Your most recent changes are saved for each camera position

Note: If you power off the unit using the main power switch, your most recent changes are not saved.

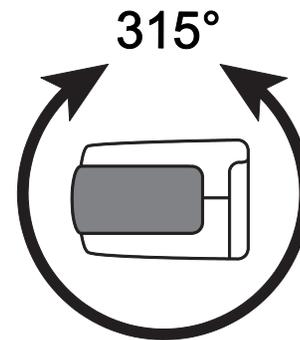
Rotating and Tilting the Camera



Camera arm rotates 330°



Camera arm joint swings 180°

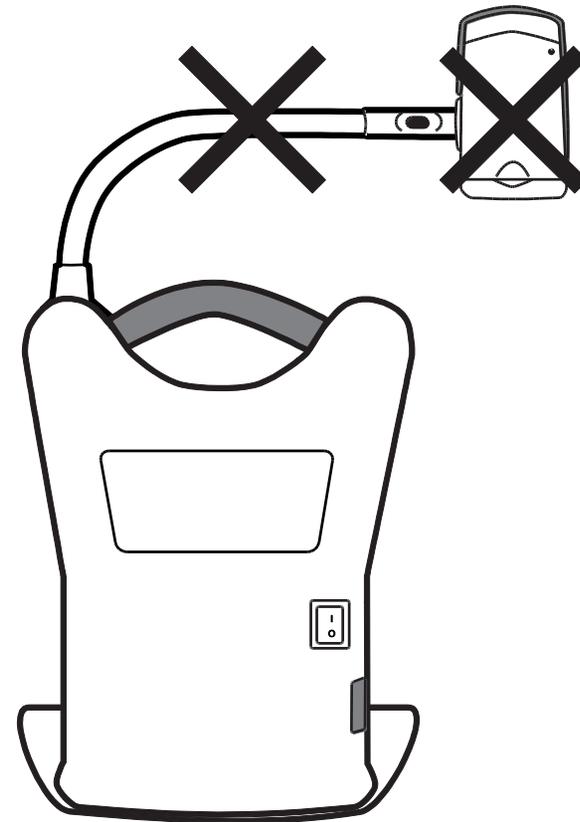
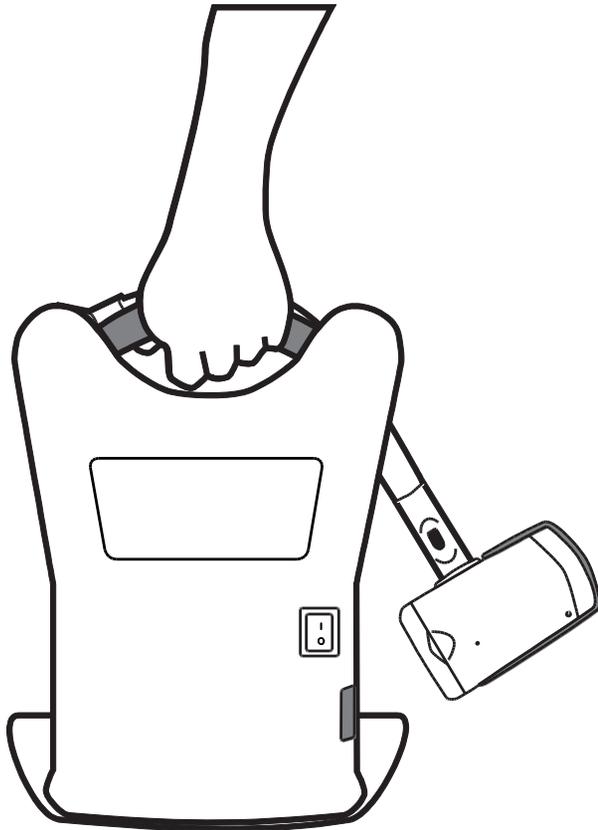


Camera tilts 315°

Carrying the Unit

The unit has an integrated handle that makes it very easy to transport. When carrying the unit, always lower the camera arm first as shown in the next figure.

Important: Never move or carry the unit by the camera arm or camera.



This section describes how to change magnification and brightness, locate objects, change color modes, and more using the remote control. For more information about the remote control and its buttons, refer to *Remote Control Functions* on page 21.

Before you begin, make sure the unit is turned on. If necessary, press the green **POWER** button  on the remote control to turn on the camera.

Changing Magnification

- Press the black **PLUS** button  (center right of the remote control) to zoom-in and enlarge the object that appears on the screen.
- Press the black **MINUS** button  (center right of the remote control) to zoom away from the object on the screen.

Adjusting Brightness

- To make the image lighter, press the top yellow **BRIGHTNESS** button  (center left of the remote control).
- To make the image darker, press the bottom yellow **BRIGHTNESS** button  (center left of the remote control).

Changing Color Modes

A color mode is a pre-defined color combination (for example, yellow text on a black background). You can use color modes to reduce glare and provide contrast to make it easier to read text on the screen. The unit has six default color modes:

- True Full Color – always available, cannot be deleted
- High-Contrast Full Color
- Black on White (high-contrast positive)
- White on Black (high-contrast negative)
- Yellow on Blue
- Yellow on Black

You can also activate up to 27 additional color modes. For a complete list, refer to *Color Modes* on page 27. To add more color modes, refer to *Adding and Removing Color Modes* on page 28.

There are two ways to move through the list of color modes:

- Press the blue **COLOR MODE** button , located in the upper right of the remote control, to cycle through and select different color modes.
- Press the **UP** or **DOWN ARROW** buttons to move to the previous or next color mode. You can only do this when shading or masking is off.

Aiming the Camera at Distant Objects

If you are currently focused on an object, but you want to move the camera to another object, use the **FIND** button to help you aim the camera, locate the center of the new object using the crosshairs displayed on the screen, and return to your initial magnification level.

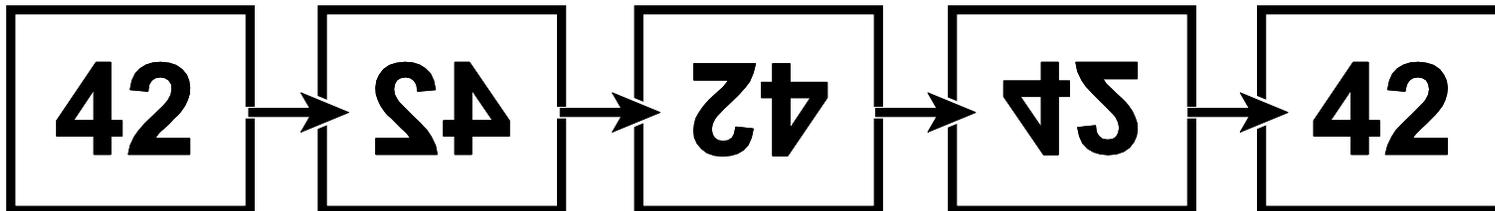
1. Press and hold the red **FIND** button  (upper center section of the remote control). Crosshairs display on the screen indicating the center of the image on the screen, and then the camera zooms out.
2. While still holding the button, move the camera and center the crosshairs on the new object you want to view.
3. Release the red **FIND** button . The camera zooms in to its previous magnification level and the crosshairs turn off.

Flipping an Image

With the ONYX HD camera, you can change the screen orientation so that the image is flipped and mirrored both horizontally and vertically.

This function is useful when the object you are viewing is upside down. For example, if you receive a heavy package, it may be easier to flip the image around instead of turning over the package.

- Press the light blue **FLIP** button  (upper left of the remote control), to cycle through the four different picture orientations. The camera will remember this setting the next time you rotate it back to this position.



Freezing an Image

1. Press the red **FREEZE FRAME** button  to freeze the current image that appears on the screen. The Freeze Frame icon  displays on the screen.

Freeze Frame is useful when viewing distant static images such as text on a blackboard.

2. Press the button again to turn off Freeze Frame and return to the camera's live view.

Auto Focus Toggle

Focus lock prevents the camera from accidentally focusing on your hand or any other item that passes in front of the camera. This is useful when working or writing directly under the camera.

1. Move the camera to the reading position (pointing down).

Next, place your document or other item under the camera, and adjust magnification using the black **PLUS**  or **MINUS**  buttons.

2. Press the orange **FOCUS LOCK** button  (lower right side of the remote control) to turn off Auto Focus.

The Focus Lock icon  displays on the screen. The camera's focus setting will not change meaning that an object moved closer to or farther away from the camera lens will be out of focus.

3. Press the orange **FOCUS LOCK** button  again. Auto Focus turns on, and the camera returns to normal operation.

Saving Camera Settings

Any changes made to camera settings (for example, color mode, magnification) are saved for that camera position: distance, reading, or self-viewing. This allows you to have a unique configuration for each camera position.

For example, for reading, you can use yellow on black as your color mode to provide a strong contrast between foreground text and a solid background. When you rotate the camera for self-viewing, you can have a different configuration that automatically switches to true full color with less magnification.

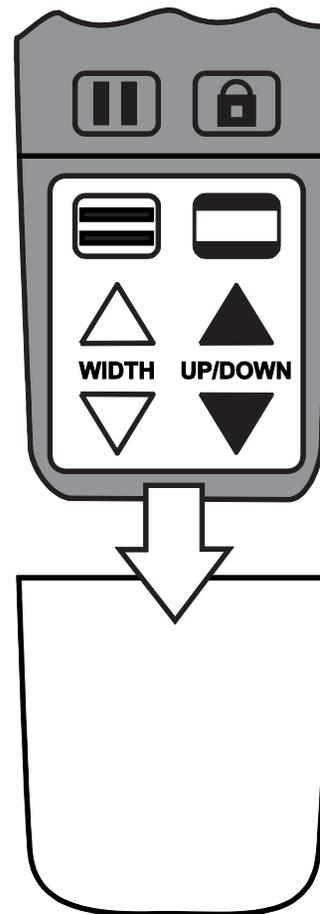
To permanently save camera settings after creating your preferences,

- Press the green **POWER** button  (upper left corner of the remote control) to power off the unit
- Your most recent changes are saved for each camera position

Note: If you power off the unit using the main power switch, your most recent changes are not saved.

Advanced Features

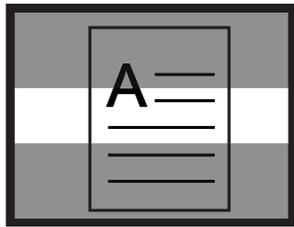
Shading, masks, and reading lines are features you can use to help you read text on the screen. The **MASK**  and **READING LINES**  buttons are located under the button cover. To access these buttons, slide the button cover down and off.



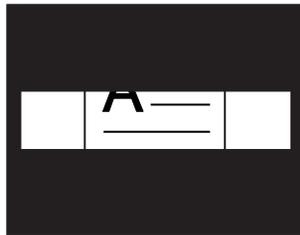
Shading and Masking

Shades and masks block parts of the screen to show only a horizontal or vertical slice of the screen. This makes it easier to focus on a specific area of the screen while also reducing glare from bright backgrounds. Shades display as two translucent bars. Masks display as two solid bars on the screen.

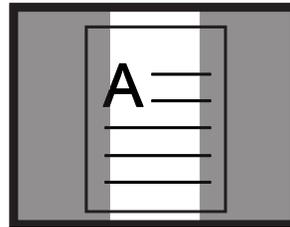
To display shades or masks, press the black and white **MASK** button  to cycle through the following options. (The button is located on the lower right side of the remote control.)



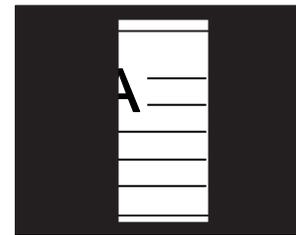
Horizontal Shades



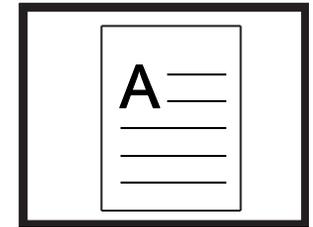
Horizontal Masks



Vertical Shades



Vertical Masks



None

Use the white and black arrow buttons to move shades and masks as described in the following table.

Press ...	To ...
 White UP ARROW button	Decrease the distance between shades or masks. This is true for both horizontal and vertical layout.
 White DOWN ARROW button	Increase the distance between shades or masks. This is true for both horizontal and vertical layout.
 Black UP ARROW button	Move horizontal shades or masks up the screen. Move vertical shades or masks to the left.
 Black DOWN ARROW button	Move horizontal shades or masks down the screen. Move vertical shades or masks to the right.

Reading Lines

Reading lines are horizontal or vertical lines that display on the screen to help you maintain your place while viewing an image or reading text.

To display reading lines, do the following:

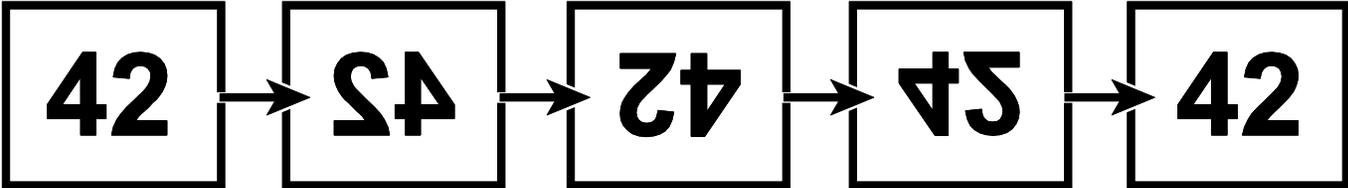
1. Press the white and black **READING LINES** button  (lower left side of the remote control) to display two horizontal lines.
2. Press it again to display two vertical lines.
3. Press it a third time to display none.

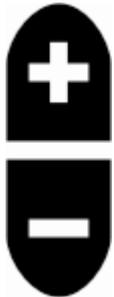
Use the white and black arrow buttons to move the reading lines as described in the following table.

Press ...	To ...
 White UP ARROW button	Move the bottom horizontal reading line up the screen. Move the right vertical reading line to the left.
 White DOWN ARROW button	Move the bottom horizontal reading line down the screen. Move the right vertical reading line to the right.
 Black UP ARROW button	Move both horizontal reading lines up the screen. Move both vertical reading lines to the left.
 Black DOWN ARROW button	Move both horizontal reading lines down the screen. Move both vertical reading lines to the right.

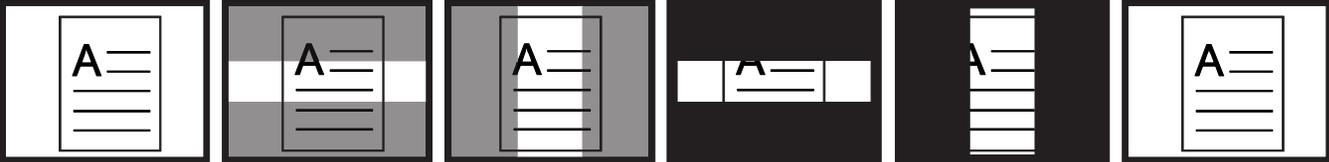
Remote Control Functions

Button	Description and Function
	<p>Power (Green)</p> <p>Press the POWER button to power on the unit. To power off, press and hold the POWER button. The camera's green LED indicates that it is on.</p> <p>The button is located in the upper left corner of the remote control.</p>
	<p>Advanced (Black)</p> <p>Use in combination with other buttons to perform advanced tasks. Always press and hold this button first, and then press another button to perform the tasks.</p>
	<p>Find (Red)</p> <p>Press and hold the FIND button to locate the center of the object that is currently in view and focus. This is indicated by the crosshairs that appear on screen. In addition, the camera zooms out to make it easier for you to aim it at another object. When you release the button the camera zooms in to the previous magnification level, and the crosshairs disappear.</p> <p>This button is located in the upper center section of the remote control.</p>

Button	Description and Function
	<p>Flip (Light Blue)</p> <p>Pressing the FLIP button four times cycles the camera through four different picture orientations.</p>  <p>This button is located in the upper left side of the remote control.</p>
	<p>Color Mode (Blue)</p> <p>Press the COLOR MODE button, which is located in the upper right side of the remote control, to cycle through color modes. See <i>Color Modes</i> on page 27 for more information.</p>
	<p>Brightness (Yellow)</p> <p>Press the top BRIGHTNESS button  to increase the brightness level.</p> <p>Press the bottom BRIGHTNESS button  to decrease the brightness level.</p> <p>These buttons are located in the center of the remote control.</p>

Button	Description and Function
	<p>Zoom (Black)</p> <p>Press the PLUS button  to zoom in and enlarge the image that appears on the screen.</p> <p>Press the MINUS button  to zoom away from the image on the screen.</p> <p>These buttons are located in the center of the remote control.</p>
	<p>Freeze Frame (Red)</p> <p>Press the FREEZE FRAME button once to freeze the current image that appears on the screen. The Freeze icon  displays on the screen.</p> <p>Press it again to turn off Freeze Frame mode and return to the live camera view. The button is located on the lower left side of the remote control.</p>

Button	Description and Function
	<p>Focus Lock (Orange)</p> <p>Press the FOCUS LOCK button to turn off Auto Focus. When Auto Focus is off, as indicated by the Focus Lock icon , the camera does not adjust its focus. Turning Auto Focus off makes it easier to write or work with an object, because the camera will not automatically focus on your hand. During normal operation, it is recommended that you leave Auto Focus on.</p> <p>Press the button again to restore Auto Focus mode. It is located on the lower right side of the remote control.</p>
	<p>Reading Lines (White and Black)</p> <p>Press the READING LINES button to display two horizontal or vertical lines on the screen. Use these lines to help you maintain your place while reading text or viewing an item.</p> <p>You can then use the UP/DOWN and WIDTH buttons to adjust the position and the distance between lines on the screen. Remove the button cover on the front of the remote control to access these buttons.</p>

Button	Description and Function
	<h2 data-bbox="478 248 1354 302">Shade and Mask (Black and White)</h2> <p data-bbox="522 339 1934 524">Press the MASK button to cover the upper and lower, or left and right sides of the screen. By doing this, only a horizontal or vertical slice of the screen shows on the display, which can help you concentrate on specific items or lines of text.</p> <div data-bbox="527 565 1856 727">  </div> <p data-bbox="522 764 1934 950">A mask displays two black bars horizontally or vertically on the screen. The shade displays two translucent bars on the screen. Shading allows you to see enough of the blocked area so that you can reference your place on the screen.</p> <p data-bbox="522 992 1923 1130">Use the WIDTH and UP/DOWN buttons to adjust the visible area and position on the screen. Remove the button cover on the front of the remote control to access these buttons.</p>

Button	Description and Function
	<p>Width (White)</p> <p>Use these buttons to move the bottom or right reading line, shade, or mask on the screen. This action increases and decreases the distance between these items.</p> <p>Remove the button cover on the front of the remote control to access these buttons.</p>
	<p>Up and Down (Black)</p> <p>Use these buttons to move the reading lines, shades, or masks up and down, or left and right on the screen.</p> <p>Remove the button cover on the front of the remote control to access these buttons.</p>

Color Modes

There are six factory default* color modes and 27 additional color modes that you can activate and use.

* True Full Color
(cannot be disabled)

* Black on White
(high-contrast positive)

Blue on Yellow

Violet on Black

Blue on White

Red on White

Green on White

Black on Red

White on Violet

Green on Yellow

White on Amber

* High-Contrast Full Color

* White on Black
(high-contrast negative)

* Yellow on Black

Black on Violet

Green on Black

White on Red

Black on Blue

Red on Black

Black on Orange

Yellow on Green

Amber on Black

Grayscale

* Yellow on Blue

Black on Yellow

White on Blue

Black on Green

White on Green

Blue on Black

Violet on White

Orange on Black

Amber on White

Black on Amber

Adding and Removing Color Modes

The unit has six default color modes. You can also activate and choose from a variety of 27 other color modes. Once a color mode is available, you can easily switch to it by pressing the blue **COLOR MODE** button , or the black **UP ARROW**  and **DOWN ARROW**  buttons.

Note: The **UP/DOWN** buttons only work if shading, masking, and reading lines are off.

To add or remove color modes, do the following:

1. Press and hold the black **ADVANCED** button  first and then the green **POWER** button  for approximately six seconds to enter the Configuration menu.

The Enable check mark  displays on the screen indicating that the current color mode is active.

2. To disable the current color mode, press the light blue **FLIP** button .

An  displays and indicates that the color mode is disabled.

Note: True Full Color mode is always available and cannot be disabled.

3. To scroll to the next color mode, press the blue **COLOR MODE** button 
 - A check mark ✓ indicates that the color mode is enabled
 - An ✕ indicates that the color mode is disabled

Note: To scroll faster through the list, you can also press the black **UP ARROW**  or **DOWN ARROW**  buttons to move to the previous or next color mode. (The **UP/DOWN** buttons only work if shading, masking, and reading lines are off.)

4. To enable or disable another color mode, press the light blue **FLIP** button .
5. Repeat steps 3 and 4 to continue adding or removing color modes.
6. When you are finished, press and hold the black **ADVANCED** button  first and then the green **POWER** button  for approximately six seconds to save your changes and exit Configuration mode.

Resetting Default Color Modes

If you have added or removed color modes, you can always restore the unit to its six default color modes.

To do this, do the following:

1. Press and hold the black **ADVANCED** button  first and then the green **POWER** button  for approximately six seconds to enter the Configuration menu.
2. Press and hold the red **FIND** button  for approximately three seconds.
3. Press and hold the black **ADVANCED** button  first and then the green **POWER** button  for approximately six seconds to exit Configuration mode.

Transporting the Unit

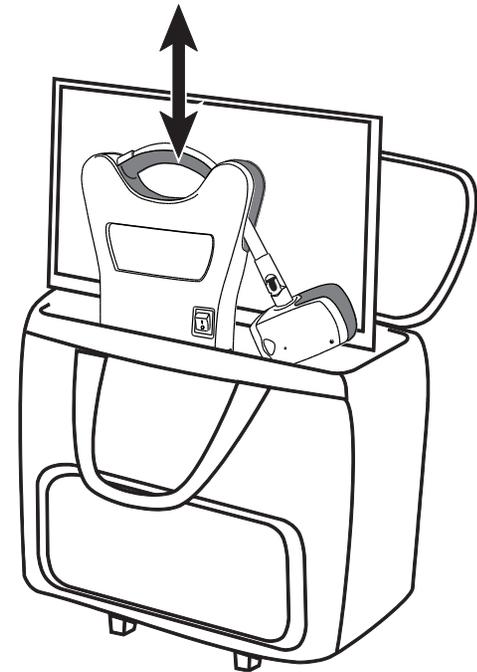
An optional wheeled carrying case is available for all units.

Before packing the unit, do the following:

1. Use the remote control to power off the unit, and then flip the main power switch to the off position.
2. Disconnect the power connector from the wall and the unit.
3. Lower the camera.
4. Place the power cord into the case or its front pocket.

To place the unit into the carrying case, do the following:

1. Lift the unit by its carrying handle.
2. With the monitor facing the back of the carrying case, lower the unit into the case.
3. Close the case and either use the case's handles to carry it, or use the convenient telescoping handle to wheel the unit.



Troubleshooting

Problem	Solution
The screen is blank.	<p>Make sure the main power switch is on.</p> <p>Ensure that the green Power LED for the camera is on. The LED is on the bottom of the camera.</p> <p>Make sure the power cable is correctly connected to the unit and the wall outlet.</p> <p>Reduce the magnification level using the black MINUS button .</p> <p>Try adjusting brightness using the yellow BRIGHTNESS buttons  or .</p> <p>Press the blue COLOR MODE button to switch to a different color mode.</p>

Problem	Solution
<p>The unit does not turn on.</p>	<p>Make sure that the main power switch is in the on position.</p> <p>Ensure that the remote control is working. The red LED flashes when a button is pushed.</p> <p>Ensure that the wall outlets have power and are not malfunctioning. If the outlets are connected to a wall switch, make sure that the switch is on.</p>
<p>The image on the screen is too bright, or there is a glare from the screen that makes it difficult to see.</p>	<p>Press the bottom yellow BRIGHTNESS button  to reduce brightness.</p> <p>Press the blue VIDEO MODE button  to switch to a different color mode.</p>
<p>The image on the screen is too dark.</p>	<p>Press the top yellow BRIGHTNESS button  to increase brightness.</p> <p>Press the blue VIDEO MODE button  to switch to a different video mode.</p>
<p>The document I am reading is out of focus.</p>	<p>For close-up reading, make sure the close-up lens is closed while the camera is pointing down on the document. Refer to <i>Positioning Camera for Long Distance or Close-up Work</i> on page 6 for more information.</p>

Problem	Solution
<p>The image on the screen is blurry or unfocused.</p>	<p>Make sure the close-up lens is in the correct position: closed for reading or self-viewing, and open for distance viewing.</p> <p>Ensure that Focus Lock is off. You can press the orange FOCUS LOCK button  to turn Auto Focus on or off.</p> <p>Make sure the lens is clean.</p> <p>Check that the object that you are trying to view is centered on the screen. The camera might be trying to focus on something else.</p> <p>For self-viewing (close-up lens closed), make sure that you are within 18 to 30 inches away from the camera.</p>
<p>The image is upside down.</p>	<p>Use the light blue FLIP button  to invert the image.</p>
<p>There are smudges or blemishes on the screen.</p>	<p>Clean the screen using a damp, soft, lint-free cloth.</p>
<p>Text is too small to read.</p>	<p>Use the black PLUS button  to increase the magnification level.</p>

Problem	Solution
Text is too large.	Use the black MINUS button  to decrease the magnification level.
When I move the camera to a new position, I lose the previous position's settings.	This is normal operation since camera settings are saved and stored per position. For example, if you have Reading Lines turned on for distant viewing, and then change to reading or self-viewing, the Reading Lines will not appear unless you set them for those camera positions.
Nothing happens while pressing buttons on the remote control.	Verify that the red LED on the remote control flashes when you press a button. If not, make sure the unit is plugged in and powered on.

Service and Support

You can contact Freedom Scientific Technical Support to receive technical assistance. Before contacting Technical Support, it is recommended that you refer to *Troubleshooting* on page 32 to try to resolve your problem quickly.

Note: This device has no user-serviceable components. Any unauthorized attempt to service or replace internal components will void the product warranty.

To contact Freedom Scientific Technical Support by email, send questions to **Support@FreedomScientific.com**.

To contact by telephone, U.S. customers can call **(727) 803-8600**, Monday through Friday, from 8:30 AM to 7:00 PM (Eastern Time).

When you call, please have your questions ready and provide the following information:

- Product name and serial number
- What you were doing when the problem occurred
- How you tried to solve the problem

For additional support information, visit **www.FreedomScientific.com**, choose **Support** and then **Technical Support**.

Warranty and Registration

Congratulations on your purchase of the ONYX Deskset HD video magnifier.

The unit and its accessories come with a two-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 Freedom Scientific 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. The unit or its accessory will then be exchanged or repaired as needed.

Product Registration

Visit www.FreedomScientific.com/Forms/ProductRegistration to register your product and validate your warranty.

