

ONYX[®] Flexible-arm PC Edition

User's Guide

Freedom Scientific, Inc.

440482-001 Revision C

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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.

Do Not Make Modifications to Remote Control

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

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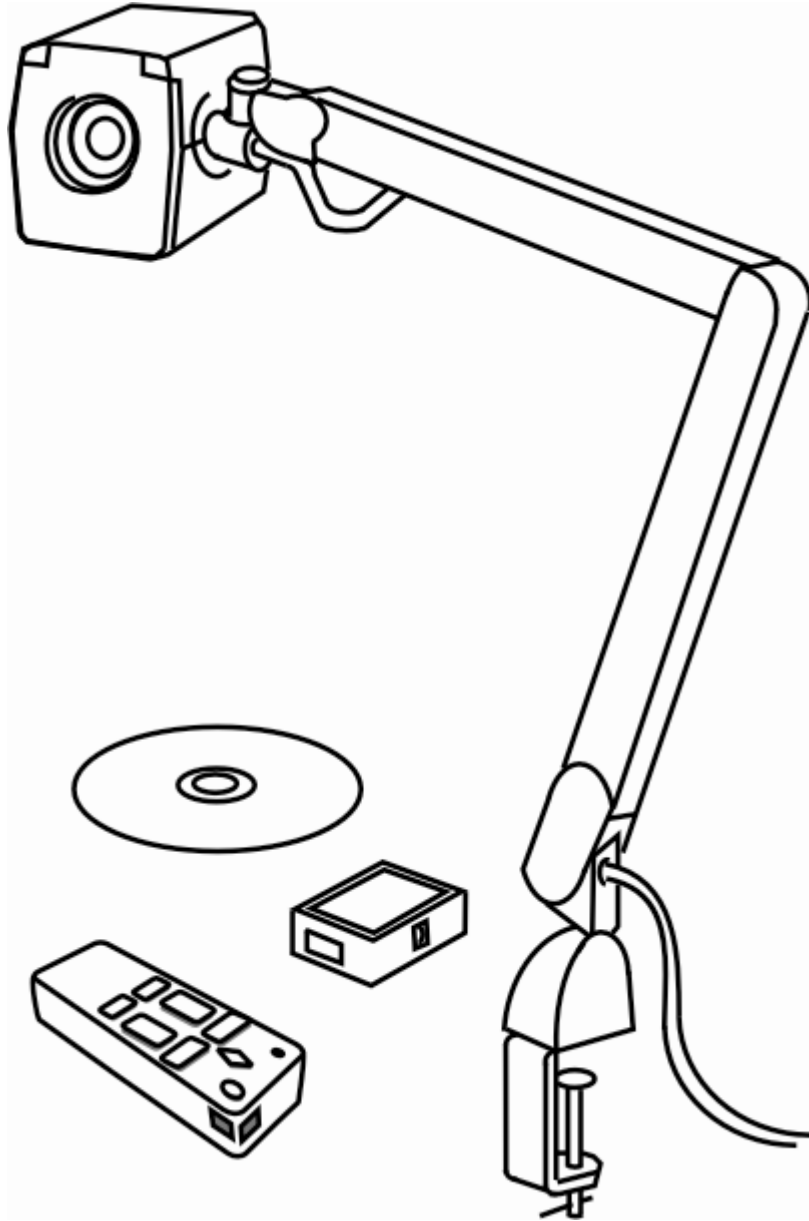
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The ONYX[®] Camera makes seeing printed type, pictures, handwriting, and small details easier than ever before.

The ONYX includes the following features:

- Document reading
- Distance reading
- Self viewing
- Auto Focus creates the clearest view without any need to make adjustments.
- Adjust pre-set video modes for high contrast text that is most comfortable for your individual eyesight.
- Increase or decrease brightness
- Masking using MAGic[®] EyeMerge[™] software
- Reading Lines using MAGic EyeMerge software
- Freeze frame
- Find function to easily target distant objects

ONYX Flexible-arm PC Edition Components



What's in the Box

- ONYX vision camera
- Flexible camera arm
- Mounting clamp
- ONYX USB interconnect box
- Remote control with two AAA batteries
- Power cable and universal 110-240V AC adapter
- Power-to-USB cable
- USB cable
- MAGic software CD

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). Do not store in a parked car, because the temperature often exceeds this range.
- Always use the unit on a stable, level, hard surface such as a desk or table.
- Never force connectors into the unit's ports. All appropriate connectors should fit easily into the ports. If the connector does not fit, turn it around, and try again.

- Use only the power cable that came with your unit. Other adapters may damage the unit.
- When cleaning the unit, use a clean, soft cloth. Do not spray or pour any liquid on the unit.

Assembling ONYX

Before beginning the assembly, place the ONYX components on a sturdy and stable work surface, such as a desk or table. Assembly is straightforward and will be very familiar to you after setting it up for use and breaking it down for travel.

Clamping the ONYX Flexible-arm PC Edition to a Table Edge

Note: Before beginning assembly, locate a sturdy and stable work surface, such as a table edge with at least two-inches of depth to mount the ONYX Flexible-arm PC Edition.

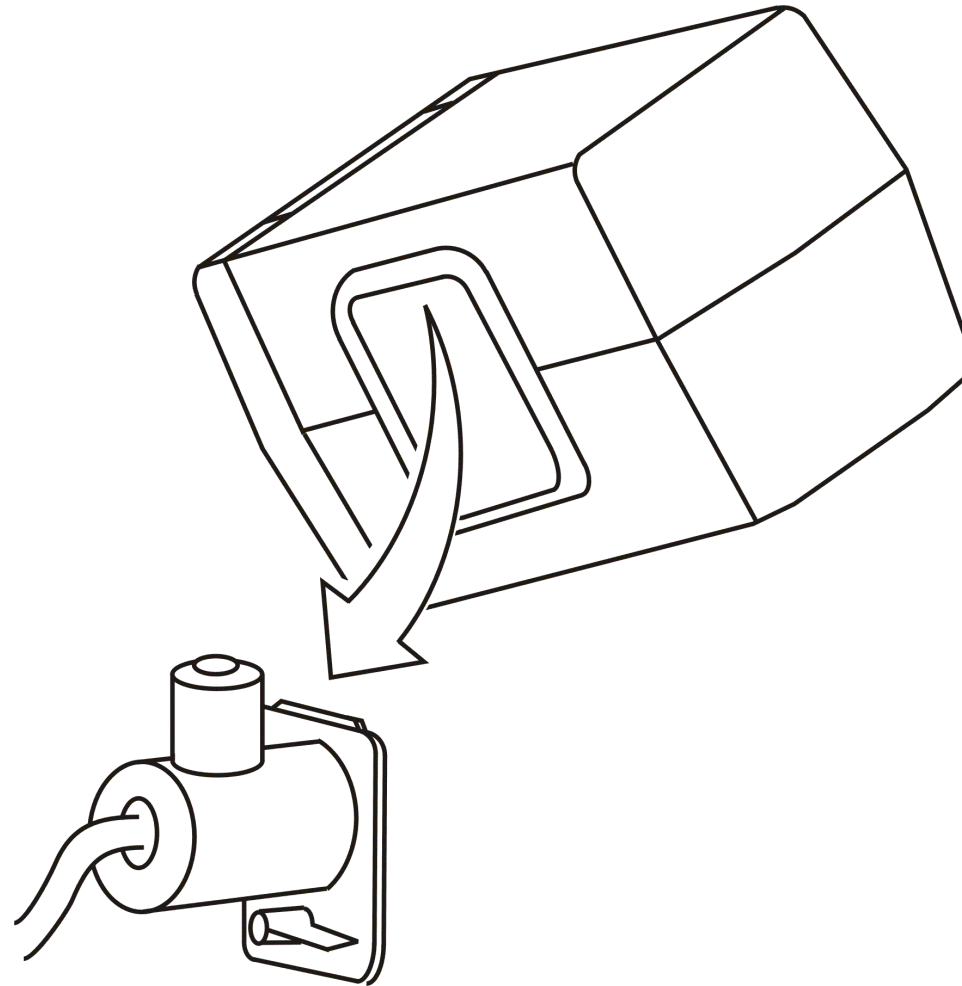
Do the following to attach the ONYX to the edge of a table, counter, or desk:

1. Loosen the screw on the mounting clamp.
2. Position the mounting clamp over the edge of a table, counter, or desk.
3. Securely tighten the screw on the mounting clamp.
4. Place the flexible arm on the clamp's post.

Camera Assembly

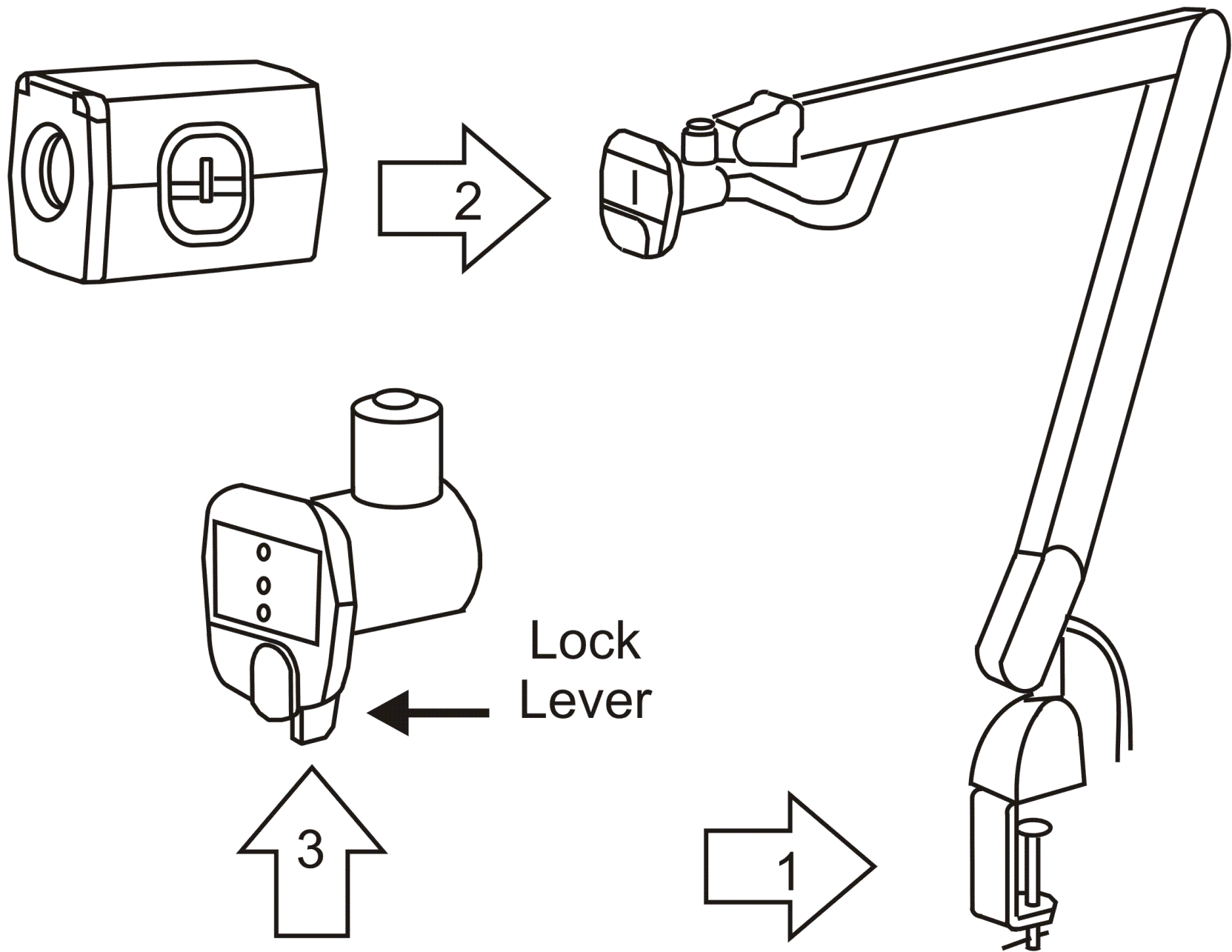
1. Attach the camera to the camera arm connector.

Note: The camera and camera arm connector have a tongue and groove design. Make sure that the top groove on the camera's connector fits snugly over the top of the camera arm connector as shown in the following illustration.



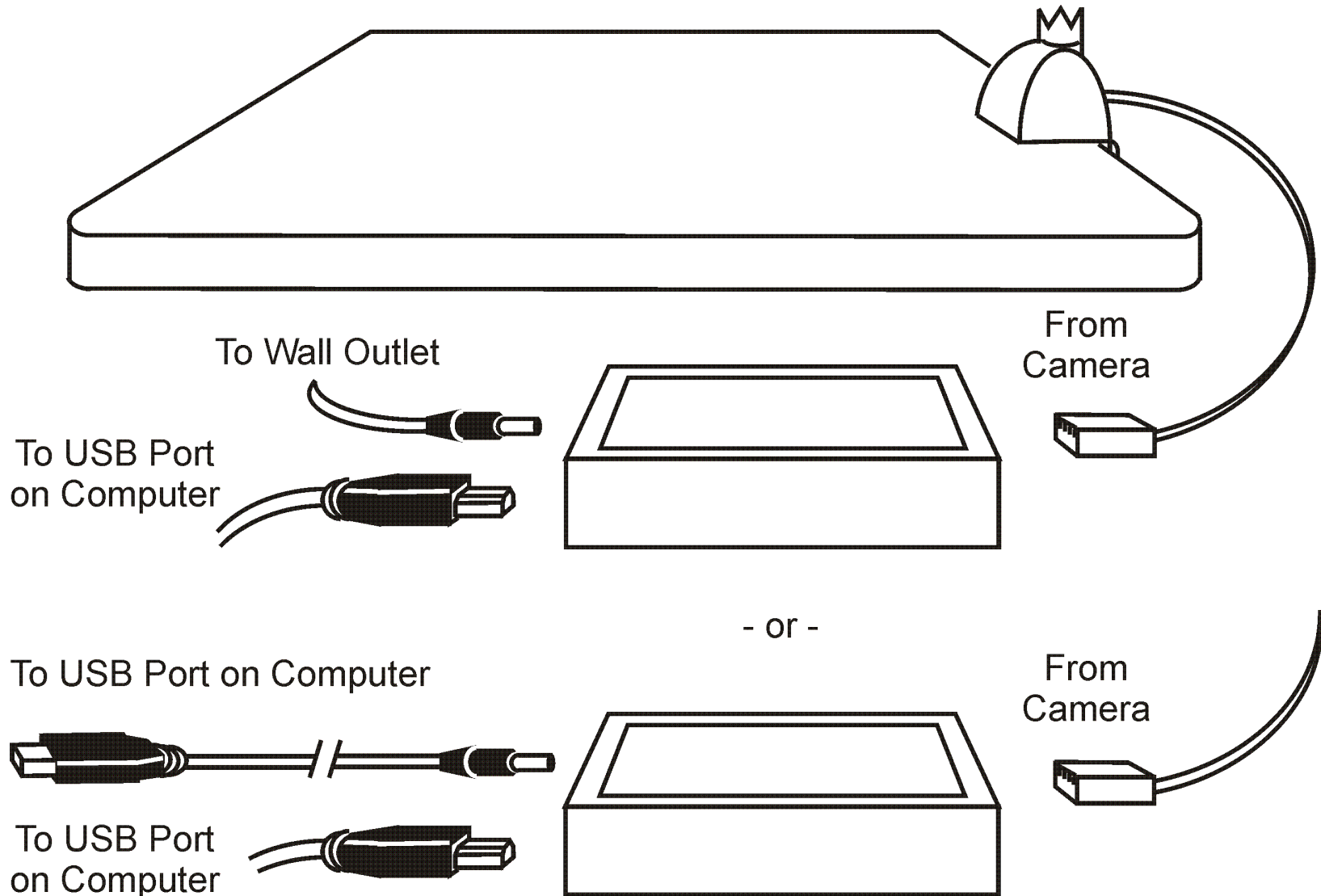
Attaching the ONYX camera to the camera arm connector

2. Rotate the locking lever down to lock the camera in place.



ONYX Flexible-arm PC Edition camera assembly

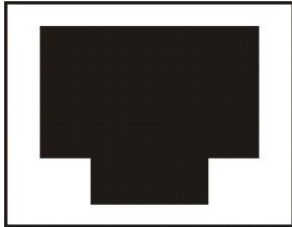
Video and Power Connections



ONYX Flexible-arm PC Edition video and power connections

Connecting Video Cables

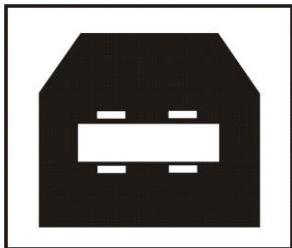
1. Plug the camera's modular RJ45 connector into the keyed RJ45 connector on the USB interconnect box.



RJ45 connector on USB interconnect box

A click sound is made when the modular connector snaps into place.

2. Insert the USB cable's Type B plug into the USB receptacle on the USB interconnect box.

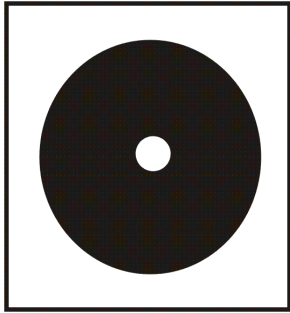


Type B USB receptacle on USB interconnect box

3. Insert the USB cable's Type A plug into a USB receptacle on your computer.

Connecting Power Using a Wall Outlet

1. Plug the power connector into the receptacle labeled DC In on the USB interconnect box.



Power receptacle on USB interconnect box

2. Plug the power cord into a wall outlet. The ONYX Flexible-arm PC Edition derives power from the AC wall outlet.

Connecting Power Using a Computer's USB Port

Note: Use the supplied Power-to-USB (Type A) cable to draw power from your computer.

1. Plug the power connector on the Power-to-USB cable into the receptacle labeled DC In on the USB interconnect box.
2. Plug the other end of the Power-to-USB cable into a USB port on your computer. The ONYX Flexible-arm PC Edition derives power from your computer.

Installing and Starting Magnification Software

A magnification program, MAGic EyeMerge, is available for you to control ONYX. It is included on your MAGic application CD.

Note: To run the MAGic EyeMerge application, your computer must have a video card that supports Microsoft DirectX® 9.0.

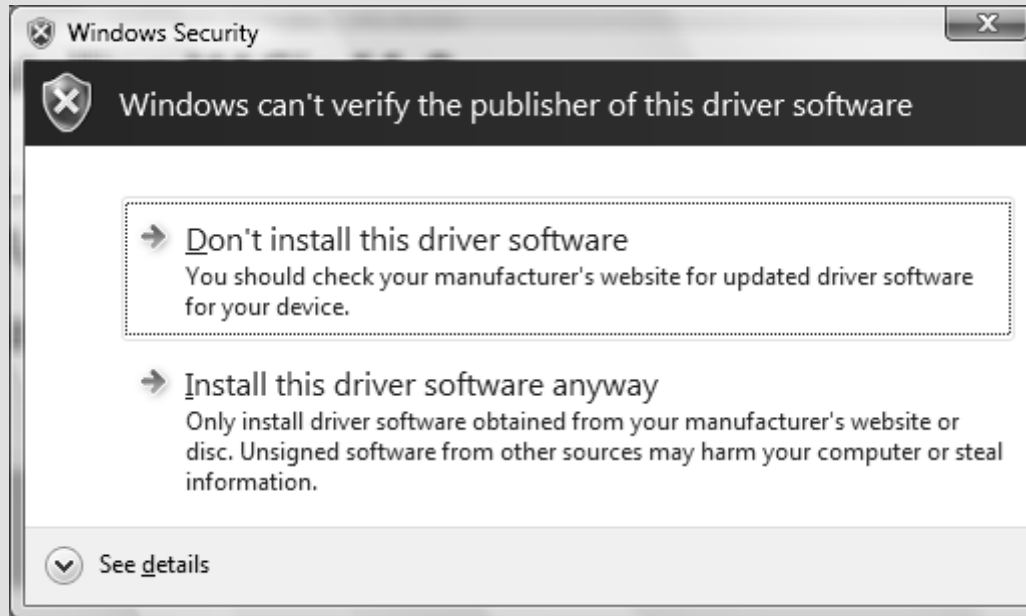
To install MAGic EyeMerge, do the following:

1. Insert the MAGic CD into your CD-ROM drive.
2. When the **MAGic Setup** dialog box appears, choose the **MAGic Setup** button.

Tip: If your MAGic installation CD does not start automatically, click the **Start** button, select **Run**, and type **D:\setup**. If your CD-ROM is not D, substitute the correct drive letter.

3. The MAGic Setup program starts. You will hear the installation speak the instructions as they appear on your screen. Follow these instructions to complete the MAGic installation.


Note: If you are installing MAGic EyeMerge on a Windows Vista or later computer, the following message may appear.



Choose **Install this driver software anyway**.

4. To start the application, choose the Windows **Start** button, choose **Programs**, open the **MAGic EyeMerge XX** submenu, where XX is the version number, and choose **MAGic EyeMerge**. Refer to the application's help system for general operation procedures.

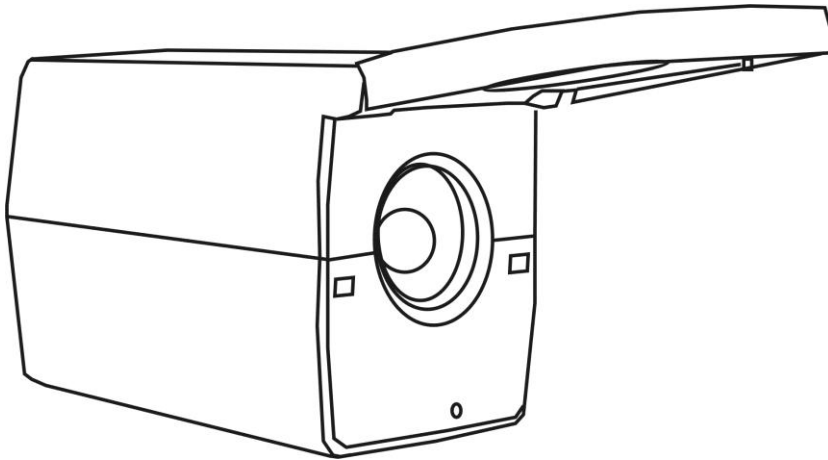
Turning ONYX Flexible-arm PC Edition On

1. Verify that the magnification software is installed and running.
2. Insert two AAA batteries into the remote control.
3. Press the green **POWER** button , located in the upper right corner of the remote control. There is no need to aim the remote control at the camera. When the camera is on, a red LED on the bottom of the camera is lit.
4. If an image does not appear on your computer, verify that the computer is on.

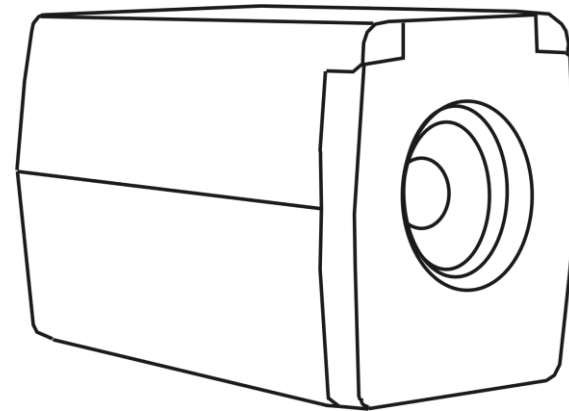
Positioning Camera for Long Distance or Close-up Work

For long distance reading, keep the camera lens up.

For close-up reading or self viewing, keep the camera lens down.



Distance reading configuration



Desktop and self-view configuration

There are four primary camera positions:

- Horizontal with lens up – for looking at distant objects
- Horizontal with lens down – for looking at nearby objects
- Vertical and facing down – for when the camera is rotated to look down at an object on the base plate or desktop
- Horizontal and upside down with lens down – for when the camera is rotated and pointed at yourself for self viewing

When the camera is placed into each of these different positions, it recalls the brightness, magnification, viewing mode, and other essential settings that you created for that specific position. This allows you to make a separate camera configuration for distance viewing, in which the magnification and brightness are adapted for that situation, while also having a separate configuration for desktop viewing, one that takes magnification, viewing mode, and brightness into account when reading a book.



Important:

Any changes made to the camera while it is in a given position are automatically saved and used the next time you move the camera to that position. To permanently save these settings, you must power the ONYX off using the green POWER button on the remote control.



Basic Operation Using the ONYX Remote Control

Note: All camera functions that you can perform using the Remote Control can also be completed using your computer keyboard and the MAGic EyeMerge hot keys. Refer to *MAGic EyeMerge Hot Keys* on page 29 or the MAGic EyeMerge help file for a list of hot keys.


Turning On and Off the ONYX Flexible-arm PC Edition

1. Connect all cables as previously described in the *Video and Power Connections* section on page 8.
2. Turn on the computer and launch the magnification software.
3. Press the green **POWER** button  on the remote control. Its red LED flashes, and the red LED on the bottom of the camera turns on.
4. Press the green **POWER** button  again to turn off the ONYX.

Changing Magnification

- Press the black **PLUS** button , which is located in the center right of the remote control, to zoom-in and enlarge the object that appears on the screen.
- Press the black **MINUS** button , also located in the center right of the remote control, to zoom away from the object on the screen.



Changing Viewing Modes


Press the blue **VIDEO MODE** button , located in the upper right of the remote control, to cycle through different viewing modes:

- Normal (full color)
- Inverted Color
- Black on White (enhanced positive)
- White on Black (enhanced negative)

Aiming the Camera at a Distant Image

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


1. Press the red **FIND** button , which is located in the upper center section of the remote control. Crosshairs appear on the screen indicating the center of the image on the screen.
2. Press the black **MINUS** button  to zoom out.

3. Move the camera and center the crosshairs on the new object you want to view.
4. Press the red **FIND** button  again. The camera zooms in to its previous magnification level and the crosshairs turn off.

Flipping an Image


With the ONYX camera, you can change the screen orientation so that the image is flipped and mirrored both horizontally and vertically. (Note that the camera is configured so that it will flip to a mirror image when rotated into the self-viewing position.)

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 , located in the upper left of the remote control, four times to cycle through the four different picture orientations.



Note: The camera will remember this setting the next time you rotate it back to this position.

Freezing an Image

- Press the red **FREEZE FRAME** button  to freeze the current image that appears on the screen. The Menu text FREEZE appears in the lower left corner of the screen. This is useful when viewing distant images such as text on a blackboard.
- To turn off Freeze Frame and return to the camera's live view, press the button again.

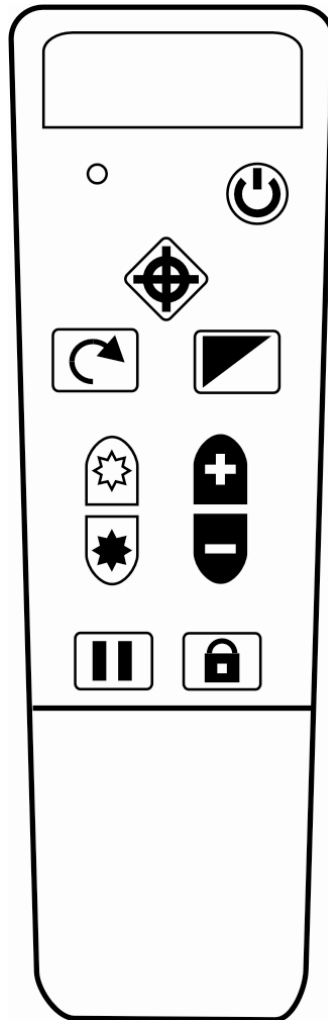
Auto Focus Toggle

By default, the camera will adjust its focus to the nearest object in view. However, when working or writing directly under the camera, you may want to turn this feature off.

1. Press the orange **FOCUS LOCK** button , which is located on the lower left side of the remote control, to turn Auto Focus off. The Menu text LOCK appears in the lower left corner of 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.
2. Press the orange **FOCUS LOCK** button  again to return to the camera's standard Auto Focus live view.

ONYX Remote Control Functions





This section describes each button on the remote control.




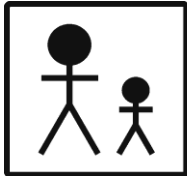
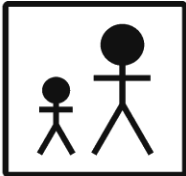
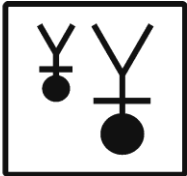
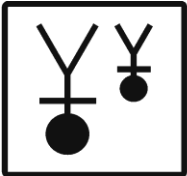
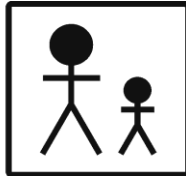






ONYX remote control

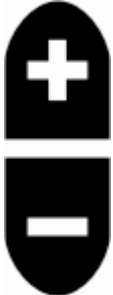




This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



Note: Do not remove the remote control's button cover. The buttons under the cover are not intended for use with ONYX PC Edition models. Use the MAGic EyeMerge keystrokes described in the *Lines and Mask* section on page 35 for reading lines and masking.

Button/LED	Description and Function
	<p>Power/Function LED (Red)</p> <p>This LED flashes red each time you press a button on the remote control. It is located in the upper left corner of the remote control.</p>
	<p>Power (Green)</p> <p>Press the POWER button  to turn the power on for the video source and camera. To turn the power off, press and hold the POWER button . The red LED on the camera indicates that it is on.</p> <p>The POWER button is located in the upper right corner of the remote control.</p>

Button/LED	Description and Function
	<p>Find (Red)</p> <p>Press 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. You can then zoom out, using the black MINUS button , and move the camera to place the crosshairs on a different object. Press the FIND button again and the camera zooms in to the previous magnification level. The crosshairs then disappear.</p> <p>This button is located in the upper center section of the remote control.</p>
	<p>Flip (Light Blue)</p> <p>Pressing the FLIP button four times cycles the camera through four different picture orientations.</p> <div style="display: flex; justify-content: space-around; align-items: flex-end;"> <div style="text-align: center;">  <p>Normal</p> </div> <div style="text-align: center;">  <p>Press 1x</p> </div> <div style="text-align: center;">  <p>Press 2x</p> </div> <div style="text-align: center;">  <p>Press 3x</p> </div> <div style="text-align: center;">  <p>Press 4x</p> </div> </div> <p>This button is located in the upper left side of the remote control.</p>

Button/LED	Description and Function
	<p>Video Mode (Blue)</p> <p>Press the VIDEO MODE button, located in the upper right side of the remote control, to cycle through the following color modes:</p> <ul style="list-style-type: none"> ■ Normal color ■ Reverse color ■ Enhanced Positive (black on white) ■ Enhanced Negative (white on black)
	<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/LED	Description and Function
	<p>Zoom (Black)</p> <p>Press the PLUS button  to zoom-in and enlarge the object that appears on the screen.</p> <p>Press the MINUS button  to zoom away from the object 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 on screen message FREEZE appears on the screen.</p> <p>Press it again to turn off Freeze Frame mode and return to the live camera view. It is located on the lower left side of the remote control.</p>

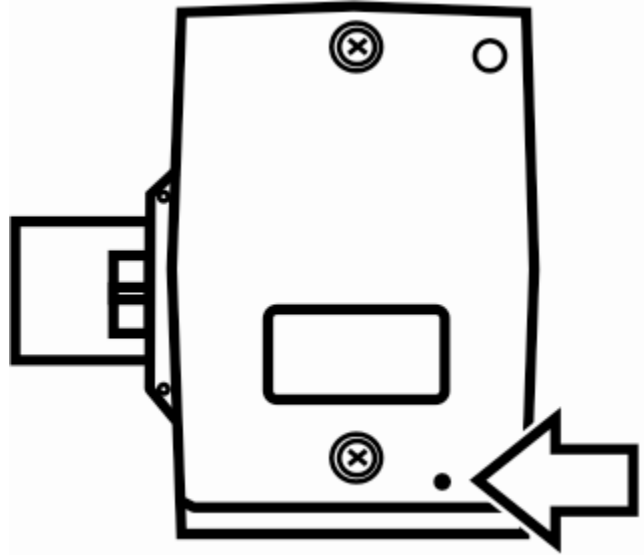
Button/LED	Description and Function
	<p>Focus Lock (Orange)</p> <p>Auto Focus mode, also known as Focus Lock, allows the camera to automatically focus on the closest object in view. Auto Focus is on by default.</p> <p>Press the FOCUS LOCK button  to turn off Auto Focus. When Auto Focus is off, as indicated by the on-screen message, LOCK, 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>

Pairing a Remote Control with a Camera

An ONYX camera always corresponds with a specific ONYX remote control. You cannot take a remote control from another camera and automatically use it with your camera. Both the camera and remote control must match. To match or pair another remote control with your camera, do the following:

Note: An unfolded paper clip is required for this procedure. Because the following tasks must be performed within a specified time limit, review and make sure that you understand this procedure before attempting to pair a camera and remote control.

1. Make sure that your ONYX camera is connected to the RJ45 connector on the video box, and that power is connected to the unit.
2. Use an unfolded paper clip to press and release the recessed **PAIRING** button on the bottom of the ONYX camera. The button is located between the serial number label and the camera lens. See the next illustration.

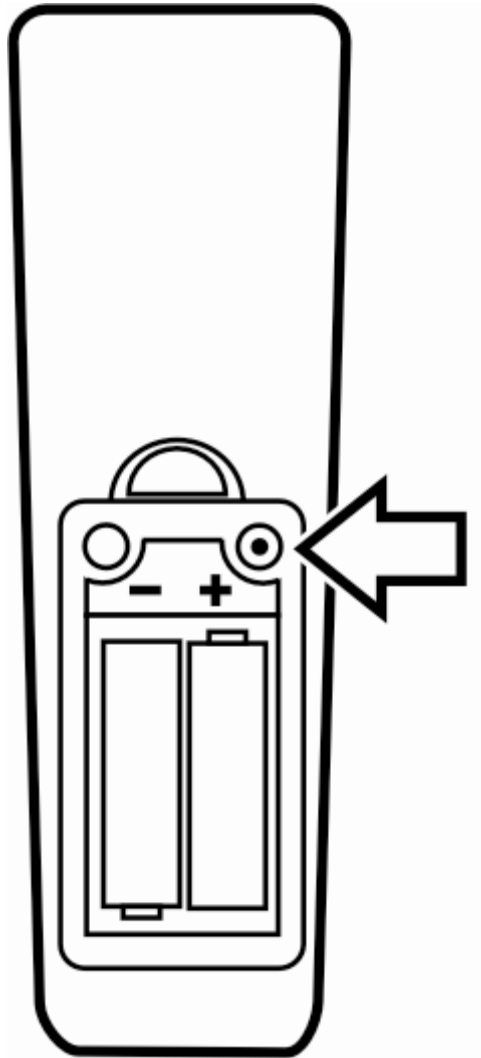


Camera PAIRING button


Note: Step 3 must be done within 10 seconds after pressing the camera's **PAIRING** button.

3. Open the battery cover on the back of the ONYX remote control. Insert and press the unfolded paper clip into the recessed **PAIRING** button (the hole above and to the right of the batteries). See the next illustration.

The remote control's LED will flash approximately 10 times.



Remote control PAIRING button

4. Press the remote control's green **POWER** button  and verify that the camera turns on. The red LED on the bottom of the camera will turn on. This indicates that the camera and remote control are correctly paired. Replace the battery cover on the remote control.

MAGic EyeMerge Hot Keys

The following hot keys use the **F12** modifier, which is the application's default modifier key. You must press the modifier key in combination with the hot key to activate the command. If you change the default modifier key, substitute the modifier key that you are using when issuing a command. Refer to the MAGic EyeMerge help for more information about the modifier key.

Zoom and Focus

Description	Modifier Key+Hot Key
Increase zoom	F12+F2
Decrease zoom	F12+F1
Find – zoom out with crosshairs; press again to remove crosshairs and return to previous zoom level	F12+A
Focus lock – turn Auto Focus on or off (lock)	F12+D
Freeze Frame toggle	F12+Z

Screen View

Screen View Description	Modifier Key+Hot Key
Select one of three views: Full Screen – Camera view, Full Screen – Computer view, or Split Screen view	F12+V (add SHIFT to reverse order)
Full Screen – Camera view	F12+HOME
Full Screen – Computer view	F12+END
Split Screen view	F12+PAGE UP
Split Screen orientation – toggle Split Screen view between horizontal and vertical orientation; use this keystroke in conjunction with F12+F to change camera view locations	F12+P
Move Split Screen view – toggle the camera position to move the Split Screen view from top to bottom or from left to right based on screen orientation (F12+P)	F12+F

Screen View Description	Modifier Key+Hot Key
Increase Split Screen viewing area	F12+F5
Decrease Split Screen viewing area	F12+F6
Camera flip – switch between Normal, Mirror, Upside Down, or Mirror Upside Down views	F12+Q (add SHIFT to reverse order)
Move EyeMerge console to foreground	F12+ENTER
Scroll image up or left while in Split Screen mode	F12+F8
Scroll image down or right while in Split Screen mode	F12+F7

Video Modes

Video Modes Description	Modifier Key+Hot Key
Select Color Video mode – switch between Normal color mode, Negative (inverted color) mode, Black on White (positive) mode, or White on Black (negative) mode	F12+E (add SHIFT to reverse order)
Normal (full color) mode	F12+SHIFT+A
Negative (inverted color) mode	F12+SHIFT+S
Black on white (positive) mode	F12+SHIFT+D
White on black (negative) mode	F12+SHIFT+F

Capture Image

Capture Image Description	Modifier Key+Hot Key
Save current screen image	F12+CTRL+S
Capture image	F12+TAB
Delete image	F12+DELETE

View Image

View Image Description	Modifier Key+Hot Key
Jump to live image	F12+0 (zero)
Next image	F12+SPACEBAR
Previous image	F12+SHIFT+SPACEBAR
Jump to image 1	F12+1
Jump to image 2	F12+2

View Image Description	Modifier Key+Hot Key
Jump to image 3	F12+3
Jump to image 4	F12+4
Jump to image 5	F12+5
Jump to image 6	F12+6
Jump to image 7	F12+7
Jump to image 8	F12+8
Jump to image 9	F12+9
Open image file manager	F12+G

Lines and Masks

Lines and Masks Description	Modifier Key+Hot Key
Screen markers – toggle on or off	F12+K
Screen marker style – select reading lines or screen masking	F12+Y
Screen marker orientation – toggle between horizontal or vertical screen marker orientation	F12+O
Move reading lines or screen mask down or to the right	F12+N
Move reading lines or screen mask up or to the left	F12+SHIFT+N
Increase distance between reading lines or increase amount of image viewable in the masked area	F12+F10

Lines and Masks Description	Modifier Key+Hot Key
Decrease distance between reading lines or decrease amount of image viewable in the masked area	F12+F9
Select reading line color	F12+R (add SHIFT to reverse order)

Camera Control

Camera Control Description	Modifier Key+Hot Key
Camera power on or off	F12+X
Refresh video view	F12+ESCAPE
Change the camera source	F12+S

Picture Adjustment

Picture Adjustment Description	Modifier Key+Hot Key
Increase brightness	F12+B
Decrease brightness	F12+SHIFT+B
Increase hue	F12+H
Decrease hue	F12+SHIFT+H
Increase saturation	F12+U
Decrease saturation	F12+SHIFT+U
Increase contrast	F12+C
Decrease contrast	F12+SHIFT+C

Service and Support

You can contact Freedom Scientific Technical Support to receive technical assistance with ONYX. Before contacting Technical Support, it is recommended that you refer to *Troubleshooting* on page 39 to try to resolve your problem quickly.




If you cannot resolve your issue, you can visit www.FreedomScientific.com. Choose the **Support** link to search the Knowledge Base. The Knowledge Base contains articles that address many common questions and technical issues concerning Freedom Scientific products.

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 telephone, customers in the United States can call (727) 803-8600, Monday through Friday, from 8:30 AM to 7:00 PM (Eastern Time). Alternatively, you can receive support by e-mail. Send your questions and problems to Support@FreedomScientific.com.



When you call, have your documentation ready and be prepared to provide the following information:



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

Problem	Solution
The screen is blank.	<p>Ensure that the television is powered on and that the red Power LED for the camera is on. It is located on the bottom of the camera.</p> <p>Check that all power cables are correctly connected.</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 VIDEO MODE button to switch to a different video mode.</p>

Problem	Solution
<p>The unit does not turn on.</p>	<p>Ensure that the camera and television are both plugged in.</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>If you are trying to power ONYX using two USB ports, it is possible your computer does not output enough power through the USB ports. Try connecting power to the wall outlet.</p> <p>Ensure that the remote control is working. The red LED located in the upper left corner of the remote control flashes when a button is pushed. If this does not happen, replace the two AAA batteries.</p> <p>Make sure that you use the remote control that is paired with your camera.</p>

Problem	Solution
<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>Use the yellow BRIGHTNESS buttons  or  to reduce the brightness.</p> <p>Press the blue VIDEO MODE button  to switch to a different video mode.</p>
<p>The image on the screen is too dark.</p>	<p>Use the yellow BRIGHTNESS buttons  or  to increase the brightness.</p> <p>Press the blue VIDEO MODE button  to switch to a different video mode.</p>

Problem	Solution
<p>The image on the screen is blurry or unfocused.</p>	<p>Lift the camera lens and let the camera try to regain focus.</p> <p>Ensure that Auto Focus is on. You can press the orange FOCUS LOCK button  to turn Auto Focus on or off.</p> <p>Move the object to within 15 inches of the camera with the lens down or at least 30 inches away from the camera with the lens up.</p> <p>Make sure that the lens is clean.</p> <p>Check that there are no objects in the foreground. The camera might be trying to focus on that object.</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 clean, soft, lint-free cloth. Do not spray or pour any liquid on the screen.</p>

Problem	Solution
Text is too small to read.	Use the black PLUS button  to increase the magnification level.
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 desktop viewing 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.	Your camera and remote control are matched through firmware. If you use a remote control that is paired with another camera, refer to <i>Pairing a Remote Control with a Camera</i> on page 26 for procedures describing how to match the two devices.

Problem	Solution
<p>Note: The following only applies if you are using the optional video interconnect box that allows for connection to a television or DVD player.</p> <p>ONYX is connected to a television, but no magnified image appears on the television screen.</p>	<p>Ensure that the television is plugged into the wall outlet.</p> <p>Ensure that the television is on and set to AUX or VIDEO channel.</p> <p>Ensure that the television cable is securely connected to the ONYX video box.</p> <p>Ensure that the television connector cable is securely connected to the appropriate video input jack on the television.</p>
<p>Note: The following only applies if you are using the optional video interconnect box that allows for connection to a television or DVD player.</p> <p>ONYX is connected to a DVD player, but no magnified image appears on the screen</p>	<p>Make sure the DVD player is set to the correct video source.</p>