

AmigoTM Slim. Light. Portable



Users Manual

About Your Amigo

Congratulations on your purchase of Amigo from Enhanced Vision. Like all Enhanced Vision products, Amigo is designed to give you the highest quality and convenience available.

Amigo enables people with low vision to see objects on the go. This battery-operated system incorporates a 6.5" viewing screen with tilting capabilities for optimal viewing.

The slim, light and portable Amigo can be used for reading newspapers, writing a check, looking at photos, viewing price tags at the grocery store, and much more. Amigo is designed to incorporate the flexibility and freedom of your life in one compact video magnifier.

Prior to using this system, please carefully read and follow the instructions provided within this booklet. A thorough understanding of the functionality will allow you to fully benefit from the flexibility and great features of this device.

If you have any questions, please contact the Eye Care professional or the supplier from whom you have acquired the unit.

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Important Safety Precautions

To obtain the maximum benefits from your Amigo, please read these safety precautions carefully.

SYSTEM WARNINGS

The Amigo is designed to help people with low vision read and write. The extent to which Amigo can improve the ability to see images depends on an individual's condition and level of vision. These products are not designed to restore vision, correct eye conditions or halt degenerative vision loss. An Eye Care professional can determine the suitability of Amigo for a patient's condition.

SYSTEM PRECAUTIONS

Avoid exposing Amigo to extreme or rapid changes in temperature or humidity as these conditions may cause fogging or damage to the product. Amigo should never be placed near a radiator or heat register.

Do not smoke while using Amigo. Cigarettes, cigars and pipe smoke release abrasive particles which are potentially damaging to the Amigo's optics and electronics.

Do not use this product near water (i.e. near a bathtub, kitchen sink, swimming pool, etc).

Do not place this product on an unstable cart, stand or table, as the product may fall, causing serious damage.

Do not use unit for 1 hour after transporting unit from a cold room to room temperature.

Important Safety Precautions

Always place the Power/Video cord in an area where it will not be damaged by persons walking on them.

To avoid the risk of electrical shock, do not disassemble this product. Return it to the place of purchase if service or repair work is required. Any attempt to disassemble your Amigo product will void the warranty.

Always use the power supply provided within your package. Do not attempt to use any other power supply; doing so will harm the unit and void the warranty.

CARING FOR AMIGO

Always turn the power OFF when you are not using the system. Make sure the power is OFF and Amigo is unplugged from the outlet before cleaning. **Do not use liquid cleaners.**

The plastic surfaces of your Amigo product may be dusted with a dry cloth.

The optical surfaces should be cleaned as needed for best performance. Dampen a lens cleaning tissue with a small amount of water and gently wipe the surfaces clean.

Never apply lens cleaning solution directly on any surface of your Amigo.

Package Controls & Contents

Your Amigo is packaged in a convenient soft case for storage and transport. All required accessories for operation are included in the box.

AMIGO IS COMPRISED OF:

1. Power Button: turns unit ON and OFF.
2. 6.5" LCD screen: displays images.
3. Size Wheel: rotates between 5 magnification sizes.
4. Mode Wheel: rotates between 6 different viewing modes.
5. Battery: powers Amigo for approx. 1.5 hours.
6. Battery Compartment: holds batteries and can be used as a charger when plugged into an outlet.
7. DC IN: used when plugging Power Supply into an outlet.
8. LED indicator light: when blinking, indicates the battery needs to be recharged.
9. Video Out: used to connect Video Out Cable to a TV or external display.
10. Freeze button: takes temporary picture of image on LCD screen.

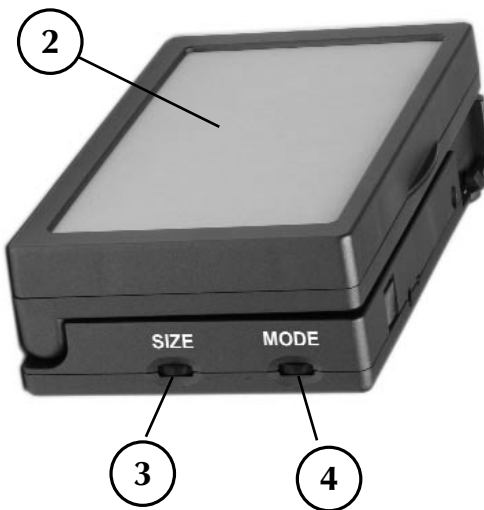
(continued on Page 6)

Package Controls & Contents

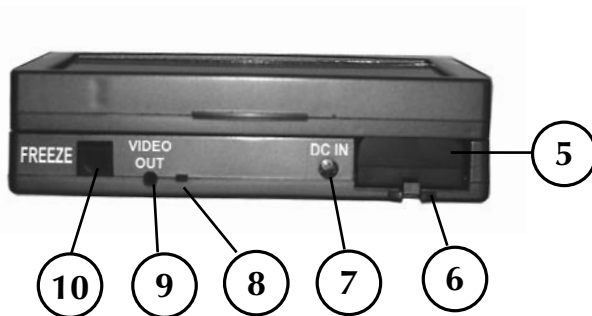
Front View



Side View



Back View



Package Controls & Contents

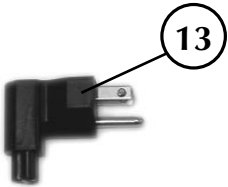
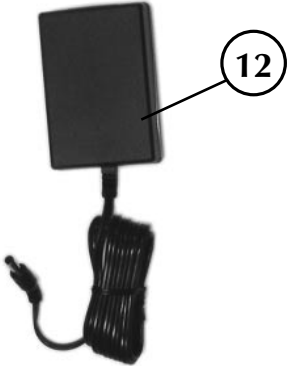
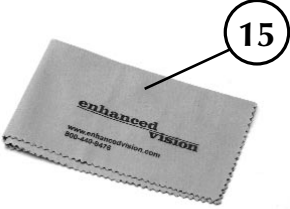
Accessories include:

11. Carrying Case with Shoulder Strap
12. Amigo 12 Volt Power Supply
13. Amigo Right Angle Power Supply Plug (Varies per country)
14. Video Out Cable
15. Lens Cloth
16. Writing Stand
17. External Battery Charger
18. Power Supply for External Battery Charger (Varies per country)
19. Extra Battery

Additional Accessory (Sold separately)

20. Car Charger

Package Controls & Contents



Quick Start

Here are some of the things you can do with Amigo.

- Read
- Write
- Freeze images

The following steps will give you a quick start on using the Amigo.

1. Turn the Power ON /OFF

Press and hold the Power button for more than 1 second, Amigo should turn ON. (see figure 1)

2. View the Image

Simply rest or set the Amigo on top of the desired object and view the magnified image.

3. Magnify the Image

Rotate the Size Wheel to change the magnification size. (see figure 2)



figure 1



figure 2

Using Amigo

Amigo comes with one charged external battery and one charged battery inside the unit for optimum battery life. We recommend before using your Amigo to plug it into an outlet and charge the battery inside the unit for up to three hours.

Charging the battery in Amigo:

Follow the steps below to charge the battery:

1. Connect the Power Supply together with the Right Angle Power Supply Plug. (see page 7, item 12 and 13)
2. Connect the Power Supply into the unit where the DC IN is located. (see page 5, item 7)
3. Plug the Power Supply into an outlet or preferably a power strip. The green LED indicator light will blink when battery is low (see page 5, item 8).
4. You can use the unit and charge the battery at the same time.

Note: When charging the battery inside the Amigo it must be in the open position (see figure 1).

When not using AMIGO for some time it is always best to remove the battery from the compartment.



figure 1

Using Amigo

Using the Amigo with the Power Supply

Follow the steps below:

1. Connect the Power Supply together with the Right Angle Power Supply Plug. (see figure 1)

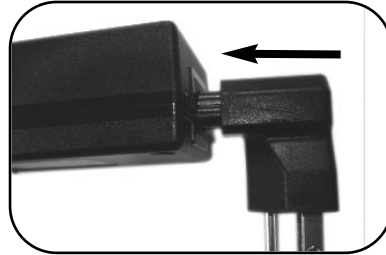


figure 1

2. Connect the Power Supply into the Amigo where it says DC IN. (see figure 2)



figure 2

3. Plug the power supply into a wall outlet or preferably a power strip.

4. Press and hold the power button for more than a second and the Amigo will turn on.

Adjusting the Size

To adjust the size, rotate the dial located on the side of the unit labeled "Size." There are 5 magnification levels. (see figure 3)



figure 3

Adjusting the Viewing Mode

To adjust the Viewing Mode, rotate the dial located on the side of the unit labeled "Mode." (see figure 4)



figure 4

Amigo has the following 6 Viewing Modes:

Full Color Image

This mode gives a true color representation of the image that is being displayed. It is ideal looking at pictures and writing.

Black & White Image

Based on your preference, you can choose the B&W mode for viewing objects.

High-Contrast Positive Image

This mode provides a white background with black text. This mode increases the contrast to offer crisp text images for reading.

High-Contrast Negative Image

This mode provides a black background with white text. This mode increases the contrast to offer crisp text images for reading.

Yellow Text on Blue Background

For some users, this mode increases the contrast to offer crisp text images for reading.

Yellow Text on Black Background

For some users, this mode increases the contrast to offer crisp text images for reading.

Using Amigo

Using the Freeze

FREEZE allows you to take a temporary picture of an image. This enables you to move the unit to better view the desired object.

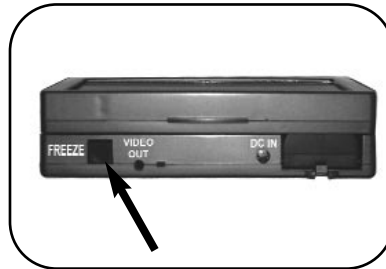


figure 1

1. Hold or place the unit over desired location.
2. Press and hold the "FREEZE" button for 2 seconds. (see figure 1)
3. The image will freeze on the screen until you adjust any of the control buttons on the unit.

Tilting the LCD

The LCD screen is designed to tilt up 90 degrees. Depending on the user's position, tilting the screen can sometimes make viewing images easier and clearer. (see figure 2)

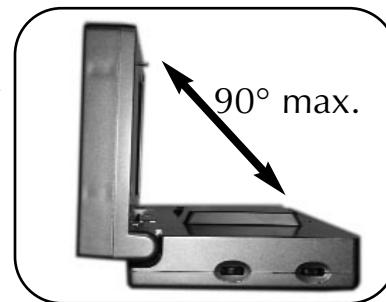


figure 2

Note: Do not force it beyond the 90 degrees or you will damage the unit.

Tightening the LCD Hinge

Depending on the user's preference, the LCD hinge can be tightened or loosened. To tighten the hinge, turn the phillips screws clockwise located on the front of the unit. To loosen the hinge, turn the phillips screws counter clockwise. **DO NOT OVER TIGHTEN.**



Writing with Amigo

1. Place the writing stand over desired material. The tallest portion of the stand should be facing you.
2. Turn the Amigo ON. Gently set the Amigo into the stand with Power Button facing you. Tilt the LCD toward you.
3. Make sure the viewing mode is set to either Color or Black & White mode. Reduce the magnification to the lowest level.
4. Place your pen under stand and write on the material.



Tips for Using Amigo

Tips for Conserving the Battery

- When not using unit, remove the battery to extend battery life. The battery will slowly lose its charge while in Amigo.
- To maximize total battery time, charge both batteries by using the internal and external chargers. (see page 9 or 16)

Note: Never allow battery to completely drain.

Tips for Using Amigo

Amigo works best when placed directly on desired material. This allows you to change viewing modes and magnification with ease. Tilting the Amigo allows you to view images at a comfortable angle. When viewing objects on the go, hold object close to the camera for clear images. (see figure 1 & 2)



Replacing the Battery

REMOVING AND INSTALLING THE BATTERY

Removing the Battery from the Amigo

The battery is located in the battery compartment. To remove, push down on the small tab of the battery compartment and slide the battery out. (see figure 1)

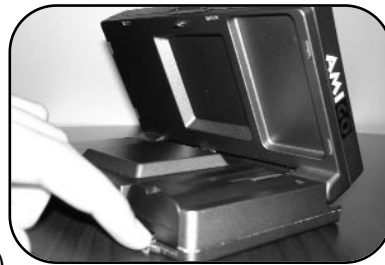


figure 1

Installing the Battery on the Amigo

To install the battery, set the battery directly on top of the battery compartment with the charging contacts facing towards the back of the LCD. Gently press down and forward to lock it in place. (see figure 2)



figure 2

Note: Do not force battery in battery compartment.

Charging the Battery

1. Charging the Battery

Remove the battery from the Amigo. (see page 15)
Plug the charger (see page 7 item 17 & 18) into an outlet.

2. Installing the Battery on the External Charger

To install battery, set the battery directly on top of the battery charger with the charging contacts facing the raised end of the charger.

Slightly push down and slide forward into place.

The red indicator light stays solid when battery needs to be charged.



3. Removing the Battery from the Charger

When the battery is fully charged, the light blinks. To remove the battery, slide the battery away from the raised end of the charger.

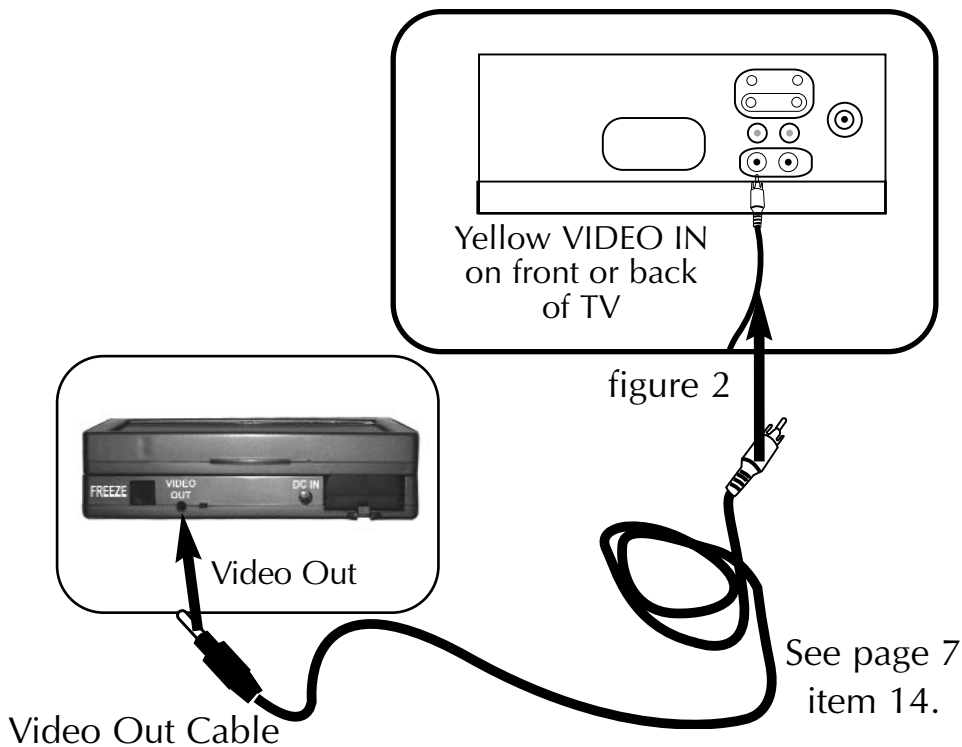


Connecting to TV

Connecting Amigo to a TV

To connect Amigo to a TV you will need the Video Cable. Plug one end of the Video Cable into the "Video Out" jack on the back of Amigo and the other end into the yellow "Video Input" jack on the front or back of your TV. Then switch your TV to Video Mode. This will allow you to view magnified images on your TV screen. (see figure 2)

Note: The LCD remains OFF when using the PAL version connected to a TV.



Troubleshooting

No Power:

1. Make sure the two contact pins in the battery compartment are sticking out. (see figure 1) The pins should protrude out of the housing for proper insertion into the battery holes.
2. Make sure the battery is charged and correctly inserted into the unit. (see Charging the Battery on page 9 or 16)
3. Press the power button for more than 1 second and the Amigo should turn on.
4. If the power does not turn on, try using the Amigo power supply. (see using Amigo with Power Supply on page 10) Most likely the battery needs to be charged.

Amigo Green Light is blinking:

If the green indicator light is blinking fast then the battery is very low. Charge the battery by plugging the Amigo power supply in to Amigo and an outlet.. (see Charging the Battery on page 9) Note: The indicator light will continue to blink slowly while the battery is charging.

Unit turns OFF suddenly:

1. Make sure the two contact pins in the battery compartment are sticking out. Pins should protrude out of the housing for proper insertion into the battery inserts. (see figure 1)

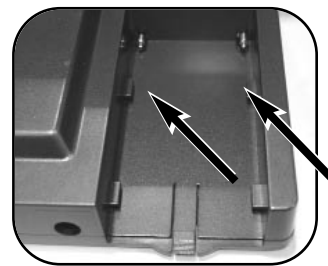


figure 1

Make sure the battery is charged and correctly inserted into the unit.

Troubleshooting

2. Make sure the correct power supply is plugged into the Amigo. (see page 7 item 12 and 13)
3. Press the power button for more than 1 second and the Amigo should turn on.

Image too dark:

If a picture is present on the display but excessively dim in Color mode, check the lights under the unit underbody. A white light should clearly be visible. If no lights are ON call Enhanced Vision Tech Support.

Blurred images:

1. Can be caused by finger prints or dirt on the glass underneath the unit. Make sure the glass is cleaned with a lens cleaning cloth. Use the cleaning cloth or a cotton swab only when needed.
2. Hold or place AMIGO directly on the target material to read. AMIGO is designed to be in focus when positioned on the target material.
3. If using the Writing Stand, some level of blurriness is unavoidable. Only use the writing stand for applications requiring your handwriting and at minimum magnification. Resume normal use without the writing stand whenever possible.

Controls do not respond:

1. This is caused by a stuck button. Make sure that none of the thumbwheels are stuck between two different positions. When turning a wheel, a detent effect should be felt.

Troubleshooting

2. Check that the FREEZE button can clearly be depressed. A distinct click feeling should be felt.

Video quality is different on the TV than on the unit:

Amigo is optimized for the built in LCD viewing display. TV display may differ slightly.

The Battery does not charge:

Make sure the Amigo Power Supply is used with the unit. Check and see if the battery is properly inserted with the contacts out of the housing. The LED should be blinking if the battery is not full. **AMIGO will recharge depleted batteries or partially depleted. Fully charged batteries are not recharged until their level is low enough.**

Amigo does not remember the last settings used:

AMIGO will remember the last settings used when the power is shut OFF with the POWER button. If the battery runs too low and the Amigo shuts off then the unit will not save the last settings into memory.

Picture is not moving:

Check to make sure the FREEZE button is not stuck. A click feeling should be clearly felt when depressed. The FREEZE button must be pressed for at least 1 second.

LCD Swivel is loose and closes on unit:

If this ever happens, use a small Philips screwdriver to adjust the swivel tension. (see page 13)

Troubleshooting

Unit is warm:

AMIGO integrates a battery charger and a powerful camera processing unit, it is normal for the unit to be warm when ON.

Note: When charging the battery inside the Amigo keep the unit in the open position (see page 9, figure 1).

There seems to be a “delay” when moving the unit or using the writing stand:

A slight delay in use is normal. When using the writing stand, proceed writing slowly on the target material.

Viewing Amigo on a TV

1. Plug one end of the 6-foot VIDEO-OUT Cable to the VIDEO-IN jack on your TV.
2. Plug the other end into the VIDEO-OUT jack on the Amigo.
3. Change your TV channel to the Video Mode to display the images on your TV set.
4. Some of the remote control buttons associated with changing the video mode on your TV include the following:

TV/Video

Auxiliary or AUX

EXT, External 1, External 2 or External 3

Video, Video 1, Video 2 or Video 3

Input, Input 1, Input 2 or Input 3

If you are still having problems, refer to your TV manual to find “Video Mode”.

Specifications

Field of view:

- 4.0cm MAX horizontally on any display size.
- 1.0cm MIN horizontally on any display size.

Magnification levels:

- 14X MAX on the 6.5" wide screen LCD
- 10.5X
- 7X
- 5.3X
- 3.5X MIN
- 40X MAX on a 20" TV
- 30X
- 20X
- 15X
- 10X MIN

Dimensions:

Unit : 16.5cm (L) * 9.8cm (W) * 4.3cm(H)

Display: 13.7cm (L) * 7.9cm (W), 15.8cm diagonally

Weight:

Unit only: <600g; <1.5 lbs

Environment :

Operating Temperature : 0 – 50C

Storage temperature : -20 +60C

Do not use unit for 1 hour after transporting unit from the cold to room temperature.

Specifications

Charging time :

~3 hours when using the unit.

~3 hours when NOT using the unit.

Running time:

~1.5 hours per battery

Video Output: NTSC or PAL

Battery:

Enhanced Vision Removable Li-Ion 7.2V L-series battery.
Nominal capacity 2200mAh.

Note: Do not use a Sony NPF-550 battery or any battery that is lower than 2200mAh provided. For more information call Enhanced Vision.

Power:

Wall adapter:

Input: 100-240VAC 50/60Hz

Output:12VDC, 1.7A max load

Unit:

Input: 12VDC, 1.5A MAX Li-Ion charger built-in unit, current may vary based on state of battery charge.

Regulatory information:

Unit : EN55022 Class B, EN61000-3-2, EN61000-3-3, EN55024. (CE for IT devices); FCC Class B, ICES-003, AS/NZS CISPR 22

Wall adapter: UL/CE

Warranty

Enhanced Vision Amigo Video Magnifier Warranty Policy

Enhanced Vision products are designed to give you the highest quality image, convenient features, ease of use and reliable service. **Amigo has been inspected and tested prior to shipping.** Enhanced Vision warrants AMIGO against defects in material and workmanship under normal use for **two years** from the date of original purchase.

Enhanced Vision, at its option, will at no charge either repair the product or replace it during the warranty period. There are no other expressed or implied warranties accompanying this product.

This warranty does not cover: a) Defects or damage from misuse, use in other than normal and customary manner, accident or neglect; b) Defects or damage from improper operation, maintenance, installation, adjustment, alterations or modification; c) Defects or damage from spills of food or liquid; d) All plastic surfaces and all other externally exposed parts that are scratched or damaged due to normal use; e) Damage due to operation of AMIGO with equipment not supplied by Enhanced Vision.

- You must provide proof of purchase, bearing the date of purchase, in order to receive warranty service.
- Anyone using this product does so knowingly assuming certain risks, due to the need to utilize vision enhancement devices.

Warranty

- A 2-year extended warranty option is available within 12 months from the date of purchase. Please contact Enhanced Vision for detailed information.

Service Process

In the event that technical support or repair service is needed, please contact your local Enhanced Vision representative or the Enhanced Vision warranty service center.

If warranty service is required, please contact Enhanced Vision at (800) 440-9476 Monday through Friday, between 8 a.m. and 5 p.m. Pacific Standard Time (PST) to request a return authorization number. **Warranty repairs will not be accepted without a valid return authorization number.**

You may wish to keep the original product packaging in case warranty service is required. The manufacturer cannot provide packaging for warranty repairs.

NOTE: Please completely fill out and send in the enclosed warranty registration card.

Other Enhanced Vision Products



Jordy – Two Low Vision Systems in One

For distance, intermediate and near viewing.

Magnification: 1X – 30X

Four viewing modes for optimum visibility: Color, Black/White, Enhanced Positive, Enhanced Negative

Jordy Docking Stand (optional)

Magnification: 4X – 40X



Merlin LCD & Merlin Plus

Merlin LCD is a video magnifier that pivots and swivels to the most comfortable viewing position. This product includes all the same features as the Merlin but with a sleek ergonomic design.

Merlin Plus offers the same advanced features as the Merlin but is compatible with most computer workstations and offers a split screen mode. This mode lets the user view magnified images and computer files concurrently.



Other Enhanced Vision Products



Flipper – *The Ultimate in Flexibility*

Read, write, get more out of life! Our innovative camera design lets you magnify in almost any position with images in full color.

Magnification: 1X – 44X*

*With optional stand

Available with Color and Black & White Display Modes



Acrobat

The Acrobat's innovative rotating camera design enables people with low vision to perform daily tasks more effectively. By rotating the camera, the user can read, write, self-view, and magnify images at any distance. This full color, auto-focus Acrobat has the most versatile and flexible arm available.



Other Enhanced Vision Products



Max – Powerful Magnifier

A powerful magnifier for reading.
Connects to any TV in seconds.

Magnification: 17X – 25X on a 20" TV

Available in Color or Black & White



Accessories

Smart Video

Connects Enhanced Vision's low vision devices to a computer monitor.

Carrying Cases

Convenient cases for storage and transport of all Enhanced Vision products.

MaxTrak

An essential accessory to keep your Max straight while rolling across a page.

Battery

Rechargeable batteries for Enhanced Vision's low vision devices.

Contact information:

Toll Free: (800) 440-9476 www.enhancedvision.com

Phone: (714) 465-3400 evinfo@enhancedvision.com

Fax: (714) 374-1821 evsupport@enhancedvision.com

The Amigo video magnifier is designed to enlarge and enhance images to improve the lives of people who have low vision. The extent to which Amigo can improve the ability to see images and text depends on a person's individual condition and level of visual impairment. Amigo is not designed to restore vision, correct eye conditions or halt degenerative vision loss. An Eye Care professional can best determine the suitability of Amigo for a patient's specific condition. For more information, please visit www.enhancedvision.com.

enhanced
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