

Live 2.0 User Guide

Redefining Visual Possibilities



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Important Information

Foreword

Welcome to the user manual for IrisVision Live 2.0 – your essential guide to the optimal and safe use of this cutting-edge custom headset. Please note that the information contained in this manual is subject to change without prior notice. To ensure you have the latest version, please visit IrisVision’s website at <https://irisvision.com> or get in touch with your authorized distributor.

Before delving into the details, it's important to clarify that this user manual focuses on providing crucial instructions for using the IrisVision Live 2.0 headset effectively.

We urge you to carefully read and understand this manual. Store all user manuals in a secure and easily accessible location for future reference. If you have any questions or feedback regarding this manual, please don't hesitate to [contact us](#) for further assistance.

Within this manual, you will find the recommended inspection and preparation procedures to follow before utilizing the IrisVision Live 2.0 headset. Additionally, we outline essential precautions to take when disposing of the product after use, ensuring both safety and environmental responsibility.

It is of utmost importance that you adhere to all the

instructions provided in this user manual. Failure to do so could lead to severe injuries to the patient, user, or a third party, as well as potential damage to the equipment.

At IrisVision, our mission is to empower individuals with visual impairments, offering them an immersive experience that goes beyond mere visual aid. We are committed to providing technology that enhances independence and enables users to engage confidently with the world.

Thank you for choosing IrisVision Live 2.0. Together, we embark on a journey of enriching lives and redefining possibilities for those facing visual challenges.

Intended Use

IrisVision Live 2.0 is a custom headset designed as a visual aid and rehabilitation platform intended to assist individuals with visual impairments in engaging with the world and achieving new levels of independence. The device is not intended to provide explanations or guidance for endoscopic techniques.

The primary intended use of IrisVision Live 2.0 is to enhance visual perception and provide magnification to aid users with visual impairments in daily activities, such as reading, recognizing faces, and navigating their surroundings. The device is intended to be used under the guidance and supervision of qualified healthcare professionals or caregivers.

IrisVision Live 2.0 is recommended for use in various environments, including but not limited to homes, educational settings, and community spaces. It is intended for use by individuals with visual impairments of different age groups, with appropriate adjustments made to accommodate individual needs.

The device is designed to be used with compatible accessories. Users are advised to follow the recommended inspection and preparation procedures outlined in this user manual before utilizing the headset.

Indications for Use

IrisVision Live 2.0 is indicated for use by individuals with visual impairments to enhance their visual perception and achieve improved independence in daily activities. The device serves as a visual aid and rehabilitation platform, offering magnification and image enhancement to support users.

Device Common Names

Wearable Visual Aid, Visual Aid, VR Visual Aid, Assistive Visual Aid.

Description of Live 2.0

Device Description

IrisVision is an FDA-registered, Class-1 medical device that combines state-of-the-art virtual reality technology with custom software developed by the nation's leading low-vision experts at Johns Hopkins University. It is the most effective, low-vision solution available for individuals with Macular Degeneration, Diabetic Retinopathy, Glaucoma, Retinitis Pigmentosa, and other ocular disorders.



Package Content & Accessories

Your IrisVision device comes with the following items:

- IrisVision Display Unit
- Headset
- Carrying Case
- Lanyard
- Direct Charging Cable



NOTE: An optional external battery is not included.



IrisVision Live 2.0 Details

Setting Up WiFi

IrisVision can be configured to connect to your WiFi. A WiFi connection allows our Customer Support team to assist you more efficiently and is necessary for certain mode functionality. WiFi will also allow your device to automatically receive software updates.



NOTE: IrisVision does not require WiFi to function in every mode, but it is highly recommended.



Removing the IrisVision Display Unit from the Headset

Release the IrisVision Display Unit from the headset by pushing the clip (shown right) away from the Display Unit. Carefully remove the Display Unit and set aside the headset.

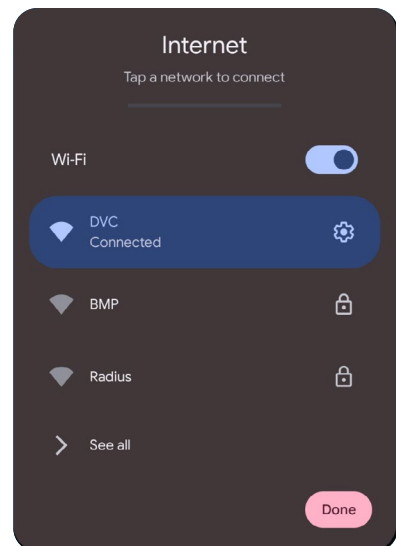
Powering on the Display Unit

Press the power button on the right side (or upper side when in the headset).



Configuring Wi-Fi

1. Go to the Home screen. Swipe up from the bottom of the screen and press the small white rectangular box.
2. Swipe down from top of screen until the fan (WiFi) icon is visible.
3. Long press that icon until the list of available networks appears.
4. Select your network, and then enter password.



Positioning the Display Unit to the Headset

1. Insert the Display Unit into the headset by centering it against the lenses as shown below. Ensure the camera aligns with opening in outside cover.
2. Securely lock the Display Unit into the headset by pushing the outside cover up against the back.



Charging Instructions

Your IrisVision can be charged by plugging the direct charging cord into the display unit. Your IrisVision will take approximately two hours to fully charge and will automatically return to Focus mode when powered on. The device will charge fastest when completely powered off before charging.

Here are some important battery tips:

- You may charge your IrisVision while in use.
- The IrisVision will give audible notifications when the battery drops to 20%, 15%, and 10%. When the battery gets to 8%, the device will shut off.
- It is recommended that you completely power off the IrisVision when not in use for more than a few hours.
- Your IrisVision will automatically go into sleep mode when idle for 30 minutes in all modes except Television. In Television mode, the device will never go to sleep.



Instructions for Using

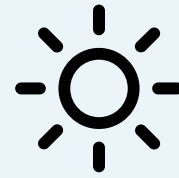
Preventive Measures

General Precautions

- **Keep away from direct sunlight.** It is especially important to keep the headset lenses away from any direct light source. These lenses are magnifiers and can cause damage to the screen of the display unit.
- Keep the IrisVision dry.
- Never walk while wearing the IrisVision headset.
- Never drive while wearing the IrisVision headset.
- Your IrisVision will speak. You can mute the device by lowering the volume to zero.

Warnings

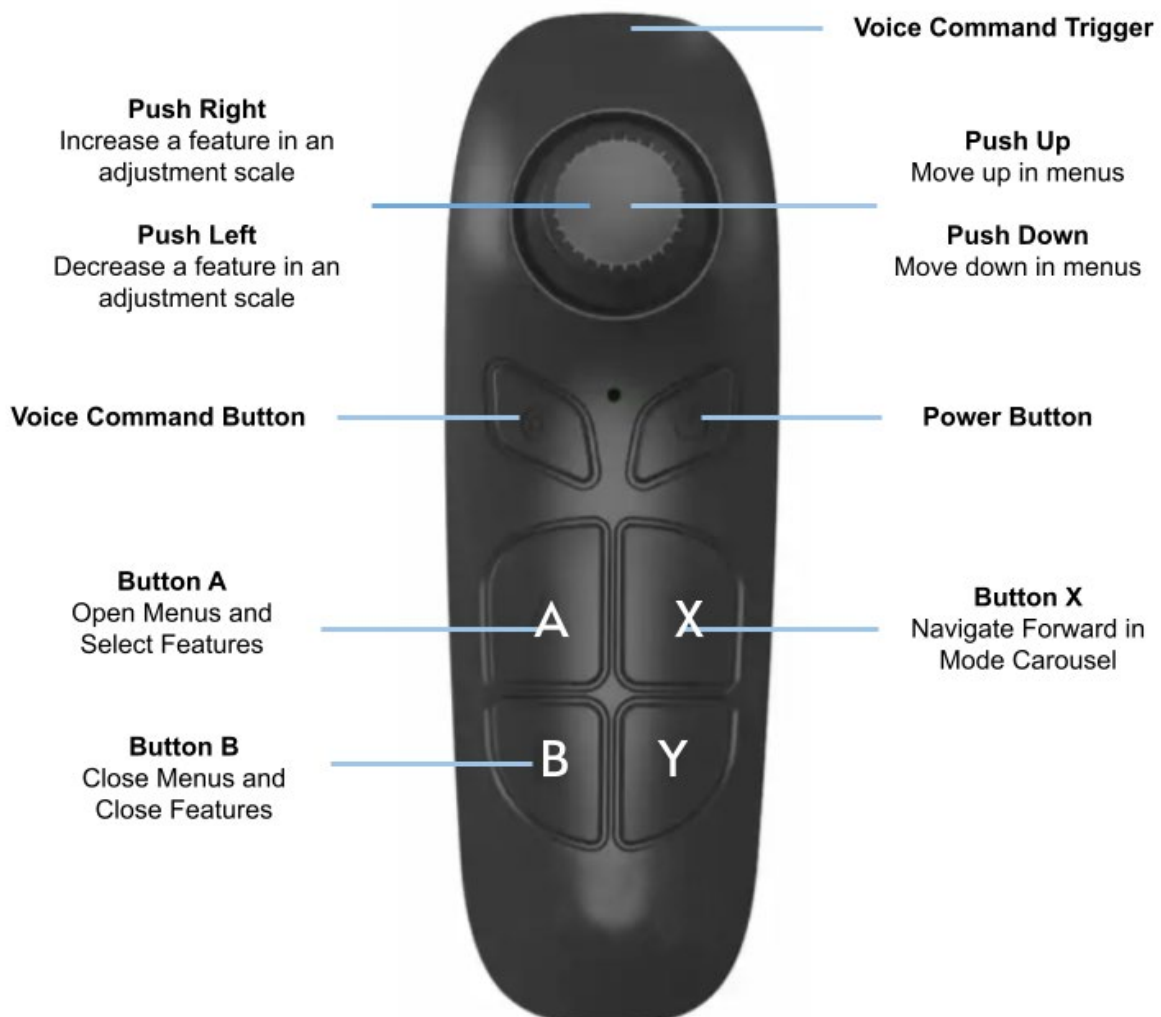
- Using the headset can result in short-term side effects which can include: nausea, motion sickness, disorientation, headaches, eye strains, and blurred vision. These typically subside after an initial adjustment period.
- If you experience any side effects, discontinue use and stay seated until symptoms stop. If symptoms persist, contact your doctor.
- Do not turn on accessibility options on the display unit, as this can interfere with the IrisVision software.



Using the Remote Control

Every time the device is powered on or woken from sleep mode, the remote needs to be reconnected. This will happen automatically when the remote is powered on. Press the power button on the remote and wait for the device to say “remote controller connected.”

Note: If the remote does not connect, ensure that charged batteries are in the remote.



Direction for Use

Powering On

Power on the Display Unit by pressing the power button on the right side of the display unit. When the display unit is in the headset, this button will be on top.



Wearing the Headset

Place the headset on your head and adjust the side straps for a secure fit. The display unit should be centered over the lenses with the power button facing up. The camera should be centered in the cutout of the headset cover.



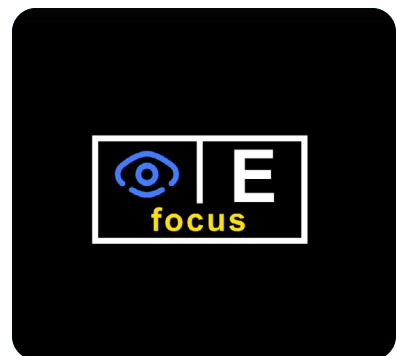
NOTE: Do not walk around while wearing the IrisVision headset.

Setting Up Focus

The IrisVision headset allows for individual lens focus. To adjust the focus, slowly turn the wheel above the intended lens.



1. After powering on your headset, it should automatically show Focus mode. It contains an image with a large letter E, the IrisVision logo and the word Focus. If you are not in Focus mode, press Button X on the remote until you hear “Welcome.”



2. Adjust each focus wheel until the image looks as clear as possible in each lens.
3. If you are seeing a double image or overlapping image, adjust the IPD(Interpupillary distance). This can be done by rotating the wheel at the top center of the headset. The IPD wheel rotates left and right, the lens focuses rotate front and back.



IrisVision Modes

After adjusting the focus wheel, use the remote to navigate through the other modes. You can also give a voice command to go directly to any mode.

NOTE: Each mode is customizable. You can adjust brightness, field of view, contrast and more.

Listed below are the five main Live 2.0 views with their menu options.

Welcome

- volume
- brightness
- field of view
- IPD
- right/left lens off
- reset mode

Scene

- Snapshot
- flashlight on/off
- brightness
- contrast
- field of view
- zoom
- reset mode

Television

- snapshot
- exposure
- brightness
- contrast
- field of view
- zoom
- reset mode

Reading

- snapshot
- light mode
- dark mode
- yellow mode
- yellow inverted mode
- green mode
- reading line on/off
- flashlight on/off
- brightness
- contrast
- field of view
- zoom
- reset mode

Settings

- volume
- shutdown
- sleep
- serial number
- scale on/off
- audio on/off
- audio speed
- IPD
- field of view
- system info
- right/left lens off

Voice Commands

Activating a Voice Command

Using the remote, press the trigger button on the top of the remote until the listening banner appears on the top of the screen or the device chimes.



Voice Commands

Mode Navigational Commands	
Welcome Screen / Focus	<ul style="list-style-type: none"> • “welcome” • “focus”
TV	<ul style="list-style-type: none"> • “television” • “tv”
Scene	<ul style="list-style-type: none"> • “scene”
Settings	<ul style="list-style-type: none"> • “settings”
RP	<ul style="list-style-type: none"> • “rp”
General Reading Mode (any color contrast)	<ul style="list-style-type: none"> • “reading”
Reading Light	<ul style="list-style-type: none"> • “reading light”
Reading Dark	<ul style="list-style-type: none"> • “reading dark”
Reading Yellow	<ul style="list-style-type: none"> • “reading yellow”
Reading Yellow Inverted	<ul style="list-style-type: none"> • “reading yellow inverted”
Reading Green	<ul style="list-style-type: none"> • “reading green”
Outline	<ul style="list-style-type: none"> • “outline”
Outline Light	<ul style="list-style-type: none"> • “outline light”

Mode Navigational Commands	
Outline Dark	<ul style="list-style-type: none"> • “outline dark”
Outline Color	<ul style="list-style-type: none"> • “outline color”
Photo Gallery	<ul style="list-style-type: none"> • “photo gallery” • “gallery”

Action Commands	
Brightness	<ul style="list-style-type: none"> • “brightness” • “increase brightness” • “decrease brightness” • “brightness <number>” • “reset brightness”
Contrast	<ul style="list-style-type: none"> • “contrast” • “increase contrast” • “decrease contrast” • “contrast <number>” • “reset contrast”
Exposure	<ul style="list-style-type: none"> • “exposure” • “increase exposure” • “decrease exposure” • “exposure <number>” • “reset exposure”

Action Commands	
Field of View	<ul style="list-style-type: none"> • “field of view” • “increase field of view” • “decrease field of view” • “max field of view” • “low field of view” • “field of view <number>” • “reset field of view”
Sensitivity	<ul style="list-style-type: none"> • “sensitivity” • “outline sensitivity” • “increase sensitivity” • “decrease sensitivity” • “sensitivity <number>” • “reset sensitivity”
Volume	<ul style="list-style-type: none"> • “volume” • “increase volume” • “decrease volume” • “max volume” • “low volume” • “reset volume” • “volume <number>”

Action Commands	
IPD	<ul style="list-style-type: none">• “IPD”• “increase IPD”• “decrease IPD”• “max IPD”• “low IPD”• “reset IPD”• “IPD <number>”
Zoom	<ul style="list-style-type: none">• “zoom”• “zoom in”• “zoom out”• “max zoom”• “low zoom”• “zoom <number>”• “reset zoom”• “increase magnification”• “decrease magnification”
Audio Speed	<ul style="list-style-type: none">• “audio speed”• “increase audio speed”• “decrease audio speed”• “audio speed <number>”• “reset audio speed”

Action Commands	
Turn On/Off Audio	<ul style="list-style-type: none">• “audio on”• “turn on audio”• “audio off”• “turn off audio”
Outline Size	<ul style="list-style-type: none">• “outline size”• “increase outline size”• “decrease outline size”• “max outline size”• “low outline size”• “reset outline size”• “outline size <number>”

NOTE: To activate a voice command, press the trigger button on the remote control.

System-Related Commands	
Battery Level	<ul style="list-style-type: none"> • “battery”
Disable Right lens	<ul style="list-style-type: none"> • “turn off right lens” • “right lens off”
Disable Left lens	<ul style="list-style-type: none"> • “turn off left lens” • “left lens off”
Enable Both Lenses	<ul style="list-style-type: none"> • “turn on both lenses” • “both lenses on”
Turn on/off Flashlight	<ul style="list-style-type: none"> • “flashlight on” • “turn on flashlight” • “flashlight off” • “turn off flashlight”
Turn on/off Scales	<ul style="list-style-type: none"> • “scales on” • “turn on scales” • “scales off” • “turn off scales”
System Info	<ul style="list-style-type: none"> • “info” • “system info”

System-Related Commands	
Serial Number	<ul style="list-style-type: none"> • “serial number”
Reset View	<ul style="list-style-type: none"> • “reset mode”
Recenter View	<ul style="list-style-type: none"> • “recenter”
Shutdown	<ul style="list-style-type: none"> • “shutdown”
Sleep	<ul style="list-style-type: none"> • “sleep” • “go to sleep”
Take Snapshot	<ul style="list-style-type: none"> • “picture” • “snapshot”
Delete Snapshot (In Photo Gallery)	<ul style="list-style-type: none"> • “delete”
Open Snapshot (In Photo Gallery)	<ul style="list-style-type: none"> • “open picture” • “open snapshot”
Next Snapshot (In Photo Gallery)	<ul style="list-style-type: none"> • “next picture” • “next snapshot”
Previous Snapshot (In Photo Gallery)	<ul style="list-style-type: none"> • “previous picture” • “previous snapshot”
Close Snapshot (In Photo Gallery)	<ul style="list-style-type: none"> • “close picture” • “close snapshot”

IrisVision Modes

Welcome Mode

The Welcome mode is the first mode upon starting up your device, and has a high contrast image to help set your focal point. This mode is designed to help you achieve the best clarity before you begin using your device. Make adjustments to fit your needs with the dials on the top of the headset; the focus dials are located over each eye, and the IPD dial is located in the center. You also have the option to turn off either the right or left lens, one at a time, to help better focus the image. Simply select the options in the Welcome mode context menu, or use a designated voice command. Once the clarity is set for you, you can turn both lenses back on through the context menu or with a voice command.

Scene Mode

Scene mode is the default Live View mode. This mode replicates the vivid colors and contrast of the scenery in front of you. Experience a brighter image with auto focus and zoom in up to 14 times magnification.

Reading Mode

The reading modes are designed to provide the highest contrast for reading text on a page. The default setting is Reading Light, which is a white background with black text. To create the best reading environment, ensure that any text is placed on a steady surface with clear overhead lighting.

Additional Reading Modes

Reading Dark: A black background with white text.

Reading Yellow: A yellow background with black text.

Reading Yellow Inverted: A black background with yellow text.

Reading Green: A green background with black text.

Reading Line: A feature unique to the Reading mode. When it is turned on, the screen displays a magnified line in the center of the screen. This allows you to read 1-2 lines of magnified text at a time, rather than the entire page. The line size can also be adjusted in the context menu to be larger or smaller. The reading line can be turned on or off, and paired with any of the reading color modes. For example, you can turn on the reading line with the reading yellow mode.

To navigate to other reading modes, open the context menu using the remote control within the reading mode. Then, scroll down to the desired color mode and select it. Once selected, anytime you return to the reading mode, that color mode will be active. Alternatively, you can use a specified voice command to activate the other reading modes.

Example: While in the Scene mode, initiate a voice command and say “reading dark” to be taken directly to the Reading Dark mode.

RP (Retinitis Pigmentosa)

If you are living with Retinitis Pigmentosa or any condition that causes reduced peripheral vision, this mode is designed just for you. While utilizing the same vibrant colors as scene mode, the RP mode allows you to easily customize your Field of View (FOV) so that all objects are inside your viewing area.

To accommodate your needs and obtain optimal viewing, adjust the size of the FOV as follows:

1. Increase the FOV (make the image larger) by pushing up on the remote joystick.
2. Decrease the FOV (make the image smaller) by pushing down on the remote joystick.

NOTE: You can also zoom in on a particular object or entity within your FOV. Use the remote control to zoom or give a voice command.

Television

Television mode is great for viewing the display on your television or computer screen. To optimize your viewing experience and camera lighting, it is best to be centered in front of the screen when using this mode. Television uses the camera's exposure compensation to provide the best viewing experience. Use the appropriate voice command to modify this setting.

TIPS: The headset will not go to sleep automatically in Television mode. To conserve battery life, use a voice command or menu option to power off the device or put it in sleep mode while not in use.

Outline

The Outline mode helps identify surroundings and items in your environment by creating an outline around obstacles or objects. The default setting is Outline Light, which is a white background with black outlines. This mode has unique settings, like outline size and sensitivity. Outline size can make the lines smaller or larger, and sensitivity controls the level of detail in the image.

Additional Outline Modes

To navigate to other outline modes, open the context menu using the remote control within the outline mode. Then, scroll down to the desired color mode and select it. Once selected, anytime you return to the outline mode, that color mode will be active. Alternatively, you can use a specified voice

command to activate the other outline modes.

Example: While in the Television mode, initiate a voice command and say “outline color” to be taken directly to the Outline Color mode.

Outline Dark: A black background with white outlines.

Outline Color: A colorful background with black outlines.

Vision Cast

Vision Cast allows you to stream content into the device from your television or computer screen.

Photo Gallery

The Photo Gallery mode compiles all of the photos you have taken with the device into a grid. You can take photos in any of the live-camera modes, like Scene, Television, Reading, etc. Those images will be saved in the Photo Gallery, where you can expand and refer to them any time.

Settings

The Settings mode presents device information and system-wide options that can be customized.

Care and Maintenance

Cleaning Tips

- Wipe the outer parts of the headset with a dry, soft cloth or wipe.
- Remove the phone from the headset and wipe it down with a dry, soft cloth or wipe. Dust particles and smudges can collect on the screen or camera lens.
- Wipe down the lens bubbles on the inside and outside of the headset to remove dust particles and smudges.
- The foam lining of the headset that presses up against your face and the straps that go around your head can be removed for cleaning. Run them under warm water, use a mild soap to scrub, and then rinse and air dry them.
- If you use a lens cleaner, we recommend that you spray it on the cloth first, and then wipe down the headset.

How to Turn Off Your Headset

1. With the headset front cover tipped open, press and hold down the power button on the side of the phone above the volume adjustment. You will hear four beeps to confirm that the headset is about to power off. You may also power off the headset by activating a voice command and saying “Power off” or “Shut down.”
2. The screen will soon turn black and the unit will power off. You can then put it away.

3. To turn your IrisVision back on, press and hold down the power button for five seconds until you feel the button vibrate. It will take about 20 seconds to reboot fully, and then Focus mode will appear. Your IrisVision is ready for use.

Warranty

This limited warranty applies to physical goods purchased (IrisVision unit) from IrisVision.

Warranty Coverage

This limited warranty covers any defects in material or software under normal use during the 1-year warranty period.

During the 1-year warranty period, IrisVision will repair or replace, at no charge, products that have been proved defective due to material flaws or improper workmanship, under normal use and maintenance.

Customers seeking warranty coverage shall contact IrisVision's customer service by telephone at (855) 207-6665 or by e-mail at support@irisvision.com for instructions on obtaining product repair or replacement. IrisVision Customer Service hours of operation are:

Monday – Friday: 6:00 am – 5:00 pm PST

Saturdays: 8:00 am – 1:00 pm PST

Coverage Period

The warranty period for the IrisVision unit is 1 year (365 days) from date of purchase. A replacement unit or part adopts the remaining warranty of the original unit.

Not Covered

Theft, water damage, accidental physical damage, and other conditions and functions not resulting in defective material or workmanship are not covered by this limited warranty.

“Accessories other than phone, headset, and charging pad are not covered by the warranty.”

Troubleshooting

Device not powering on:

Ensure that the phone is connected directly to the charging cord and power is flowing properly from the outlet. Firmly press and hold down the power button for 5 seconds until the screen lights up.

Voice Commands Not Working:

From the settings mode, navigate to the volume options. Ensure volume is audible. Exit the app and navigate to the phone settings. Ensure that Do Not Disturb is inactive and volume is at an appropriate level

We recommend restarting the device once every 30 days to ensure optimum functionality