

# IRISVISION

## **User Guide**

V 2.6

Please read this guide before operating your IrisVision device and keep it for future reference.



  
IRISVISION

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## **Welcome**

Thank you for purchasing an IrisVision Low Vision Aid system. This guide provides the essential information you need to set up and use your new IrisVision unit. For help with specifics and troubleshooting, you will receive a faster response by contacting your clinician, who is already acquainted with your needs.

## **About**

IrisVision is an FDA registered Class-1 medical device and intuitive low vision aid that combines state-of-the-art virtual reality technology from Samsung with innovative custom software developed in collaboration with the nation's leading low vision experts at Johns Hopkins University.

It is the most effective low vision aid available for individuals with Macular Degeneration, Diabetic Retinopathy, and other visual diseases.



## **What's Included**

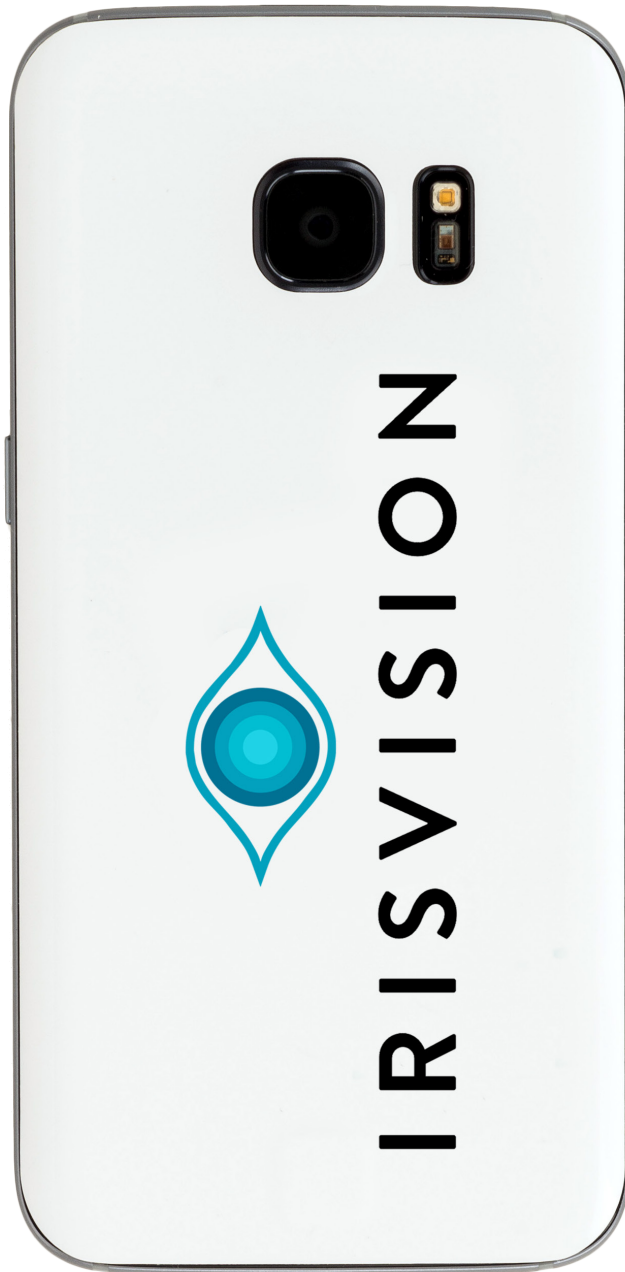
Your IrisVision Low Vision Aid system comes with the following items:

- 1. IrisVision Display Unit**
- 2. Goggles/Headset**
- 3. Wireless Charging Pad**
- 4. Fast Charger & Cable**
- 5. Magnetic USB Cable**
- 6. Carrying Case**

**Note: External battery not included (optional)**

## What's Included

IrisVision Display Unit



## What's Included

Goggles/Headset with adjustable straps



## What's Included

### Wireless Charging Pad





## What's Included

Fast Charger & Cable (will be white)



## What's Included

Magnetic USB Type-C Connector & Cable



## What's Included

Carrying Case





## Device Overview

### Goggles/Headset

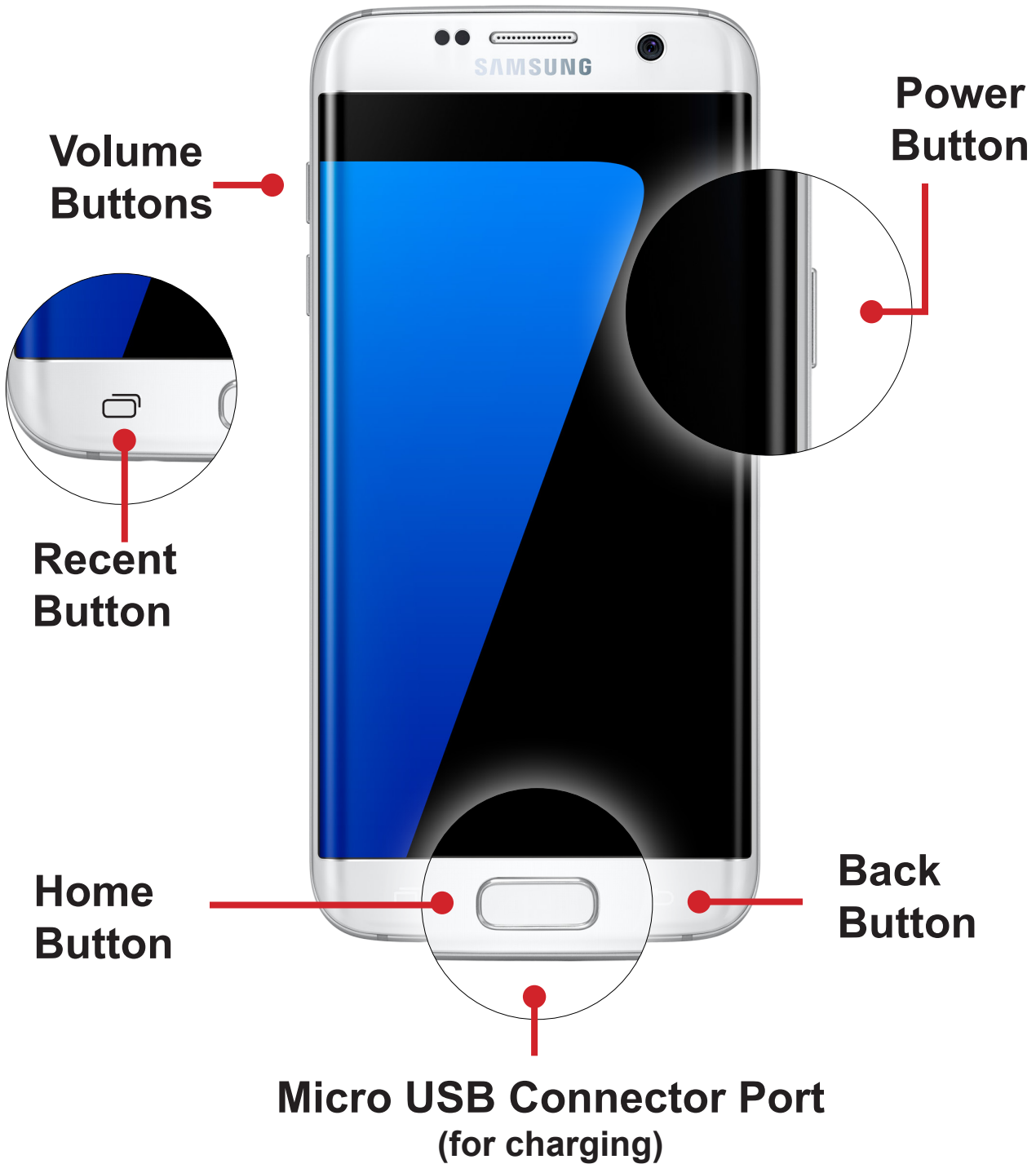


**Note:** Some headset models don't include brightness control buttons. You can control brightness using the "Config Menu". Visit the FAQ section of our website to learn how to use the Config Menu.



# Device Overview

## IrisVision Display Unit



## Using IrisVision: Step 1 - Power Up

Power on the Display Unit by pressing the blue/gray tab for a few seconds. Wait for the Health & Safety Warning to complete.



## Using IrisVision: Step 2 - Wear Headset

In order for the buttons/touchpad to work on the Headset, the Headset needs to be on your head. Place the device over your eyes and pull the straps over your head. Adjust the velcro straps to achieve the best fit. We recommend that you wear your prescription distance glasses while using the device. **Do not walk around while wearing IrisVision.**





## Using IrisVision: Step 3 - Set Up Focus

The first screen you will see is the Focus Screen. Use the **focus wheel** on the top center of your goggles to adjust the focus until you get the clearest picture.







IRISVISION

Gear VR  
Powered by  
Oculus



## Using IrisVision: Step 4 - Live View Modes

After focusing the device with the focus screen, press the **mode button** to enter Full Screen Mode. You can press the button again to switch to the other modes. There are 9 available modes:\*

1. **Scene Mode**
2. **RP Mode**
3. **Bioptic Mode**
4. **Television Mode**
5. **Reading Mode: Black/White**
6. **Reading Mode: Inverted**
7. **Line Reading Mode**
8. **Reading Mode: Green**
9. **Reading Mode: Yellow**

Please Note: Some modes are disabled by default. You will need to contact IrisVision support to enable those modes. In every mode you can use the **brightness buttons** to increase or decrease the brightness of the screen.





**Mode Button**

**Brightness  
Buttons**

**IRI.**



## Using IrisVision: Step 5 - Taking a Snapshot

While in any mode you can press the **Screenshot/Standby button** to take a screenshot of what you are looking at. The image you are looking at will freeze, and you will see a yellow camera icon appear in the top left. While in the screenshot you can zoom in or out using the touchpad. To exit the screenshot just click the **Screenshot/Standby button** again.

If you press and hold the **Screenshot/Standby button** for a few seconds your screen will turn off and your device will enter into standby mode. While in standby mode, the device uses little power and will last up to 10 hours. To wake your device from standby mode, first have your unit on your head then click the **Screenshot/Standby button**. Your screen should turn back on and will be on the focus screen.





**Screenshot  
Standby  
Button**





## Using IrisVision: Step 6 - Zoom In/Out

Next, place your right index finger on the **touch pad**. The touch pad is located on the right side of the headset. Be sure to take your finger off the touch pad in between swipes.



Use your index finger to make several slow swiping motions on the touchpad **towards** you to increase magnification.



To decrease magnification, use your index finger to make several slow swiping motions on the touchpad away from you.

## Using IrisVision: Step 7 - Bubble View



Swipe **up** to enlarge the view bubble. The bubble can be expanded to fill the full screen.



Swipe **down** to decrease the size of the bubble.





**Touch Pad**



**IR**



# **IrisVision**

## **Live View Modes**





**Scene Mode**



**Scene Mode with Bubble**



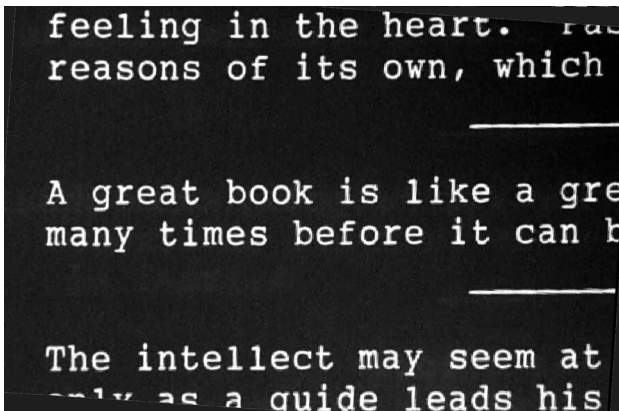
**Bioptic/Split Screen Mode**

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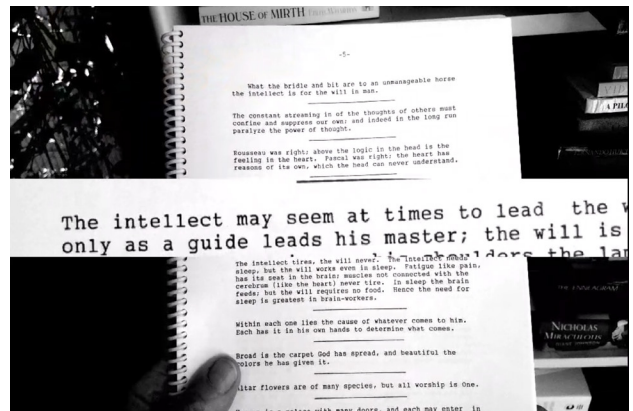
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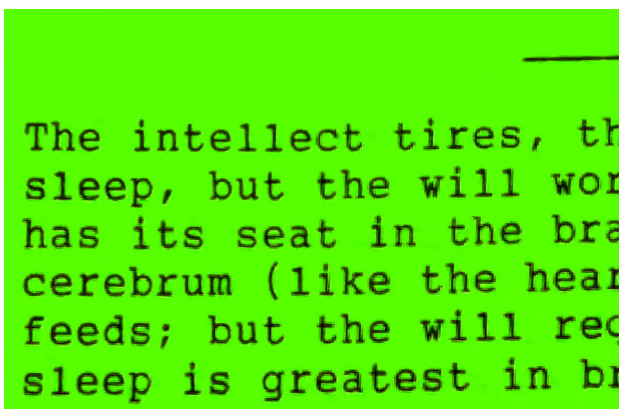
**Reading: Black/ White**



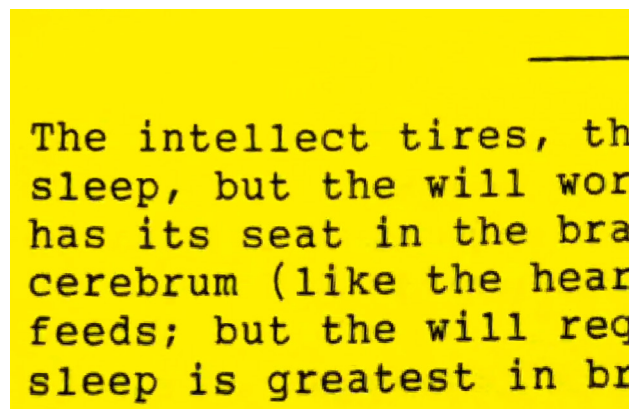
**Reading: Inverted**



**Line Reading Mode**



**Reading Mode: Green**



**Reading Mode: Yellow**

## RP (Retinitis Pigmentosa) Mode

This mode allows you to change the **Field of View (FOV)** of the screen. This helps individuals with Retinitis Pigmentosa or Glaucoma to be able to see better by shrinking the image into a smaller viewing area.

To increase the field of view, swipe up on the touchpad. To decrease the field of view, swipe down on the touchpad.





## **Bioptic/Split Screen Mode**

This mode provides a rectangle at the top center of the screen that allows you to magnify a specific section of the screen without losing the greater context of the view in front of you.

Using the touch pad, swipe towards you to increase the magnification inside the rectangle. Swipe away from you to decrease the magnification inside the rectangle. The center point of the magnified view in the rectangle should correspond with the center of the unmagnified view.

To practice viewing an object or face in the bottom portion of the screen, dip your chin, then insert that object into the rectangle to view it with more detail. Then lift your chin to return to the original scene. You will be able to do this more quickly over time with practice.

## **Television Mode**

Television mode is identical to Scene mode except that it will not cause the device to enter sleep mode automatically after a period of disuse (such as when you are watching a movie or a television show.)

## **Reading Mode: Black/White**

This mode is for reading text material like books or papers without color. For reading magazines or materials with color it is best to return to scene mode. This mode presents reading material with black letters on a white background. This black on white mode has enhanced the brightness and contrast of letters. This mode may be useful when the text and background colors make it difficult to read (i.e., red on pink or beige on brown.)

## **Reading Mode: Inverted**

This mode is helpful for many different eye conditions by providing white letters on a black background. This enhances the contrast and also provides reduced glare on the screen, which can be helpful for those overwhelmed by bright scenes.

## **Line Reading Mode**

The reading line mode, similar to the first reading mode, presents text in black letters on a white background only. This mode provides a magnification bar in the center of the screen to magnify one or more lines of text while allowing a normal view above and below the bar.

First, swipe up on the touchpad to make the bar wider. Second, swipe towards you on the touchpad to increase text size to your best view of text. Third, swipe down on the



touchpad to decrease the bar size to isolate one or two lines of text.

## **Reading Mode: Green**

This mode provides black text on a green background. This may also help by providing good contrast without the brightness of a white background. Use the toggle switch to make the green background brighter or darker. Adjust to your preference.

## **Reading Mode: Yellow**

This mode provides black text on a yellow background. This may also help by providing good contrast without the brightness of a white background. Use the toggle switch to make the yellow background brighter or darker. Adjust to your preference. This mode can also be helpful when reading for extended periods of time and be more soothing to the eyes.

## Recommendations for Use

*For additional tips and answers to FAQs, please visit: [www.irisvision.com/faq](http://www.irisvision.com/faq)*

**Bubble Size:** We recommend keeping the bubble size at medium while zooming in on different objects. Keeping the bubble size at medium will help provide a better view of the surrounding environment. Once you have identified the object of interest you can increase the magnification inside the bubble by swiping towards you on the touch pad. To remove the bubble and return to full screen, swipe up four times slowly until the bubble disappears. **Remember: do not walk around while wearing IrisVision.**

**Reading:** While reading, hold your reading material in front of you in a normal reading position and move your head, not your arms, to scan the text. The reading material can be brought closer to you (approximately 6

inches) or further away at any distance. For heavy books or reading materials you may consider using a bookstand if sitting at a table or desk so that the reading material is kept steady. A reading light may also help.

**Focus:** The IrisVision has a camera with automatic focus. The camera may occasionally take a second or two to adjust its focus on an object. If the camera fails to focus on a particular object, look away and then back at the object.

**Sleep Mode:** Any time you take off the device and set it down, the device will go into sleep mode and the screen will turn black. By bringing the IrisVision up to your face and pushing the mode button, the screen will turn back on. This allows the Display Unit to conserve its battery power. The device will not enter sleep mode when in Television mode. It is recommended to turn off the



IrisVision unit when not in use. You can do so by pressing the blue/gray tab on top of the headset for a few seconds.

## **Wireless Charging Instructions**

*For additional help with wireless charging, please visit: [www.irisvision.com/faq](http://www.irisvision.com/faq)*

After centering the IrisVision unit face down on the included wireless charging pad, you will hear a verbal prompt and see a blue light illuminate the pad when the unit is properly placed and the pad is plugged into the wall. If you do not hear this tone or see any illumination:

- Make sure the straps are not sitting inside the goggles as this will prevent the Display Unit from charging as the headset's sensors will think you are still wearing it.

- Remove the Display Unit from the headset and place the back of the Display Unit (not the screen) directly onto the pad instead.

After setting the device on the charger, the screen will turn black in a few minutes. When the Display Unit is fully charged, the blue light on the charging pad changes to green and you will hear a verbal prompt.

If the blue light is not on or if it is flashing, the device is not charging. If your device powers down and, it is not responding to any button press, place the device on the wireless charger.

It will take 2.5 hours to fully charge and it will automatically return to the Focus screen. Although the device turns back on within a few minutes of placing it on the Wireless Charger, we recommend that you let it fully charge before using it.

## Wired Charging Instructions

As an alternative, you may use the cord from the wireless charger and plug it into the display unit after removing the display unit from the headset. By using this method the Display Unit will charge faster, usually within one hour.

**NOTE:** The IrisVision's battery lasts 3 to 4 hours. It can last 3+ hours with continuous use, and all day (8 to 10 hours) on standby. You can make the most of this time by powering the device off during activities when you are not using it.



## Powering the IrisVision using the USB Type-C Port on Headset

This power port can be used if you want to use the product for extensive and continuous use beyond what the built-in battery can provide. You can use an external battery as a source of power. This method does not charge the built-in battery but provides an alternative source to operate the device.

**NOTE:** This method of powering the device can sometimes cause it to overheat. In the case that it does overheat unplug the charging cable.



## Setting Up Wifi

IrisVision can be configured to connect to your Wi-Fi. A Wi-Fi connection allows our Tech Support team to assist you more efficiently.

**Note: IrisVision does not require Wi-Fi to function.**

### Step 1: Remove IrisVision Display Unit from Headset

Release the IrisVision display unit from the goggles by pushing the clip to the right of the display unit's camera away from the display unit. Carefully remove the display unit and



## Step 2: Power on Display Unit

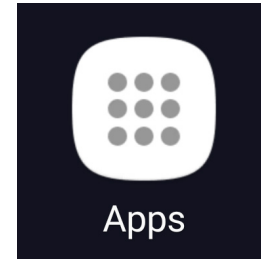
If the display unit is not already powered on, you will need to power it on by pressing the **power button** on the right side when you are looking at the screen as shown.





### Step 3: Configure Wi-Fi


Tap the **Apps** icon located at the bottom of the home screen. Next, tap **Settings**, then **Connections**.




At the top of the Connections Menu, tap **Wi-Fi**. Turn Wi-Fi **on**, then select your home or office Wi-Fi network.

If you need to enter a **password** to access that network, do so now. It is recommended that you also select **Auto Reconnect** so that your device remembers this network in the future.



Once the IrisVision display unit has connected to Wi-Fi, you will be ready to proceed to the next step.

**SETTINGS** 


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 **Connections**  
Wi-Fi, Bluetooth, Data usage, Airplane mode


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 **CONNECTIONS** 


---

**Wi-Fi**   
Connect to Wi-Fi networks.


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 **WI-FI** **WI-FI DIRECT** **ADVANCED**


---

**On** 

---

 **Name of Your Network**  
Connected

---

 **Other Network**

## **Step 4: Connecting Display Unit with Headset**

The headset has a connector and a clip with two positions: A & B. For the current model of IrisVision, it should remain in the B position. Also notice the small lock/unlock switch. The switch should always remain in the lock position.

Insert the headset's connector into the display unit's connector. Gently push the display unit down into the mount until the clip snaps into place.

You will hear a confirmation tone from the display unit if the headset and display unit are connected properly. Once connected, the IrisVision headset is ready to use.

**Note: IrisVision does not require Wi-Fi to function.**





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## Using the Bluetooth Remote

You will only need to use the joystick **(1)** and the on/off button on the remote **(2)**. Both have been painted yellow. Pressing the on/off button will activate the device. A red indicator light will come on and begin blinking, indicating that the remote is now discoverable.



## Using the Bluetooth Remote

Once connected, you can use the **joystick** to take the function of the headset's touch pad - to navigate menus and control the vision bubble.

- Pressing **up** on the joystick makes the bubble larger, and pressing **down** makes it smaller.
- Pressing **left** zooms in within the bubble, and pressing **right** zooms out.
- Pushing the yellow on/off button allows you to switch between the different viewing modes.
- Make sure to turn off the remote when not in use by holding down the yellow on/off button. The red light will flash rapidly before turning off.



## **How to turn off Audio Prompts**

To turn off audible prompts in IrisVision, press the mode button to cycle through until you see the focus screen appear. While in the focus screen tap and hold the touchpad for 15 seconds. You will hear an audible prompt stating “speech prompt disabled.” This must be done while wearing the IrisVision unit. Follow the same process to enable the audio prompts back.

## **How to Turn off Your Device**

To turn off your IrisVision, hold the blue power button on the headset for a few seconds. The screen will soon go black and the unit will power off.

Once this happens your IrisVision will be off and can be put away. To turn your IrisVision back on you will need to hold

the power button down until you see the Display Unit wake up.

## **How to Reboot Your Device**

*A new feature - only if there seems to be a problem such as the screen freezing or not acting properly.*

You can reboot your device on any mode. To reboot your IrisVision, go to the brightness toggle switch on the front right of the headset. Hold the brightness down button for 15 - 20 seconds.

You will see the brightness level diminish, brighten again, and then the device will vibrate. Your IrisVision will then automatically reboot completely and after about a minute you will hear the Health and Safety message - it will then be ready to fully operate again.

# IrisVision Support

## Contact Your Clinician

In most cases your clinician will be able to respond to questions more quickly and efficiently because they are already familiar with your needs.

## Speak With an IrisVision Advocate

IrisVision Advocates are standing by to assist you with any questions you may have about setting up or using your IrisVision system.



### Call Toll Free

855-207-6665



### Email Us

[info@irisvision.com](mailto:info@irisvision.com)



### Visit Us Online

[www.irisvision.com](http://www.irisvision.com)



### Meet Us In-Person

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