

IRISVISION Live!

User Guide V 3.1

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



WARNING: If you have a pacemaker do NOT wear the headset on a lanyard.

Inside This Guide

•	About IrisVision	4
•	What's Included	5
•	Headset Overview	13
•	Using IrisVision	16
•	Basic Voice Commands	27
•	IrisVision Live View Modes	31
•	IrisVision Digital Media Modes	45
•	Recommendations for Use	52
•	Charging IrisVision	54
•	Setting Up Wifi	58
•	Cleaning Tips	64
•	Audio Prompts & Turning off	65

By powering on your IrisVision headset, you agree to the terms use described in the End User License Agreement (EULA) at www.irisvision.com/legal

Welcome

Thank you for purchasing an IrisVision Low Vision system. This guide provides the essential information you need to set up and use your new IrisVision unit. For help with specifics and troubleshooting contact a specialist at IrisVision.

About

IrisVision is an <u>FDA registered Class-1 medical device</u> and intuitive low vision solution that combines stateof-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 solution available for individuals with Macular Degeneration, Diabetic Retinopathy, Glaucoma, Retinitis Pigmentosa and other ocular disorders.

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

- 1. IrisVision Display Unit
- 2. Headset
- 3. Wireless Charging Pad
- 4. Fast Charger & Cable
- 5. Magnetic Braided Power Cable and Charger
- 6. Carrying Case
- 7. Warranty Card
- 8. Lanyard
- 9. Earphones for video watching

Note: External battery not included (optional)

IrisVision Display Unit





Headset with Adjustable Straps and Lanyard





Wireless Charging Pad







Fast Charger & Cable (Used with Wireless Charging Pad)





Connector (Used for direct charge. See pg 15 for details.)

Magnetic Braided Power Cable





Carrying Case



Note: Bring your carrying case with you when using IrisVision outside. When not using your headset, please place inside the case to prevent damage from the sun/elements.

Earphones for video watching





Headset Overview







Headset Overview - continued



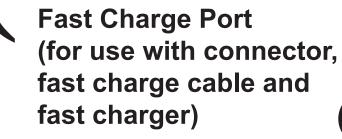


14

Headset Overview - continued

IrisVision Display Unit







Using IrisVision: Step 1 - Powering Up

Power up the Display Unit by pressing down the white tab for 5 seconds. A vibration will indicate the headset is powering on.





Using IrisVision: Step 2 - Wearing the Headset

The headset's buttons and touchpad will not work when the headset is not worn on your head. We recommend that you wear your prescription distance glasses while using the headset.

- **1. Place the headset** over your eyes and pull the staps back over your head.
- 2. Adjust the velcro straps to achieve the best fit.



Using IrisVision: Step 3 - Set Up Focus

The focus wheel on the top center of your headset to adjust the focus, similar to adjusting binoculars.

- **1. Prepare to adjust the focus** by rotating the wheel as far left as possible.
- **2. Pick an object** or face at least 4 feet away to look at on your screen like a picture on the wall.
- **3. Slowly begin adjusting it** by rotating the wheel towards your right until the object is in focus. You can rotate the wheel in either direction as needed.







Using IrisVision: Step 4 - Live View Modes

Your IrisVision headset is shipped with two modes activated: Scene Mode and Reading Mode Black / White.

After adjusting the focus wheel, press the mode button to enter the first mode called the Scene Mode. Press once more to enter black and white Reading mode. Cycle back to the first mode, Scene mode, by pressing the mode button a third time.

IrisVision also has the capability of enabling 13 additional modes:

- 1. Scene Mode (page 32)
- 2. Scene Mode with Bubble (page 33)
- 3. **RP Mode** (page 44)
- 4. Bioptic Mode (page 36)
- 5. Television Mode (page 35)
- 6. Reading Mode: Black / White (page 38)
- 7. Reading Mode: Inverted (page 40)
- 8. Reading Line Mode (page 41)
- 9. Reading Mode: Green (page 42)
- 10. Reading Mode: Yellow (page 43)
- 11. IrisReader (page 39)
- 12. Photo Gallery (page 46)
- 13. Video Player (page 49)

Note: Focus screen can be enabled to aid in adjusting focus.



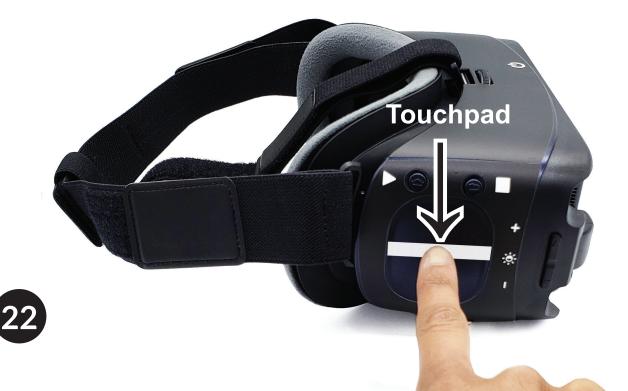
Note: You can use the **brightness buttons** in every mode to increase or decrease the brightness of the screen.



Using IrisVision: Step 5 - Zoom In / Out

IrisVision allows you to magnify your live view.

- **1. Locate the touchpad.** The touchpad is located on the right side of the headset under the mode and snapshot buttons.
- 2. Place your right index finger on the touchpad. We recommend putting your hand in a fist with your index finger pointed out to steady your hand on the touchpad.
- 3. Zoom In: Use your index finger to make a slow swiping motion on the touchpad straight towards your ear to increase magnification. Important: you must take your finger off the touchpad between each swipe.
- **4. Zoom Out:** To decrease magnification, use your index finger to swipe slowly on the touchpad straight away from your ear. swipe.



Wait for the beep or microphone to appear before saying the word/phrase.



Double Tap

- Double Tap: Say "Zoom In"
- Double Tap: Say "Zoom Out"
- Double Tap: Say "Set Zoom <u>X</u>"
 X = value between 1-12.
- Double Tap: Say "Max zoom" -

zooms in to 12x magnification

Double Tap: Say "Low zoom" -

goes back to 1x magnification

OR



Voice Commands

- Say "Okay Google: Zoom In"
- Say "Okay Google: Zoom Out"
- Say "Okay Google: Set Zoom X"

X = value between 1-12.

- Say "Okay Google: Max zoom"
- Say "Okay Google: Low zoom"



Snapshot

The Snapshot button allows you to save a photo of your view in any Live Mode. A list of the live modes can be found on page 20.

- **1. Locate Snapshot:** the Snapshot button is located to the left of the Mode button.
- 2. Press the Snapshot button: you will see the image you are viewing freeze, and a yellow camera icon will appear in the top right corner of the screen.
- **3. Zoom in or out** by swiping on the touchpad.
- **4. Pan** within the snapshot by moving your head up, down, left, and right.
- 5. Save: Press the snapshot button again to prompt the save or discard screen. Swipe up to save and swipe down to discard. <u>View your saved Snapshot by cycling to Photo</u> <u>Gallery mode.</u>

Note: Snapshots can be taken only in Live View Modes.



Wait for the beep or microphone to appear before saying the word/phrase.

Double Tap

- Double Tap: Say "Take Snapshot"
- Double Tap: Say "Exit Snapshot"

OR

د<u>ر</u>ا» _م

Voice Commands

- Say "Okay Google: Take Snapshot"
- Say "Okay Google: Exit Snapshot"



Basic Voice Commands



Basic Voice Commands

Basic Speech Commands:

- **Say "Info"** provides name of current mode, battery level, magnification, volume, brightness, and any extra parameters like size of bubble or Field of View
- Say "Next" goes to the next mode
- Say "Back" goes back one mode
- Say "Help" provides a description of the current mode and how to use it. This option is available in every mode

Brightness:

- Say "Set Brightness" + <number> set brightness to specific level (1 to 15). Example: Say "Set Brightness to 15" - will get brightness level to 15
- Say "Increase brightness" increases brightness by 1 (max 15)
- Say "Decrease brightness" decreases brightness by 1 (max 15)
- Say "Max brightness" set brightness to 15
- Say "Low brightness" set brightness to 1



Basic Voice Commands - continued

Volume:

- Say "Set volume" + <number> set volume to specific level (1 to 15) Example: Say "Set Volume to 10" - will get volume to 10
- Say "Increase volume" increase volume by 1 (max 15)
- Say "Decrease volume" decrease volume by 1 (max 15)
- Say "Max volume" set volume to 15
- Say "Low volume" set volume to 1

Voice Prompts:

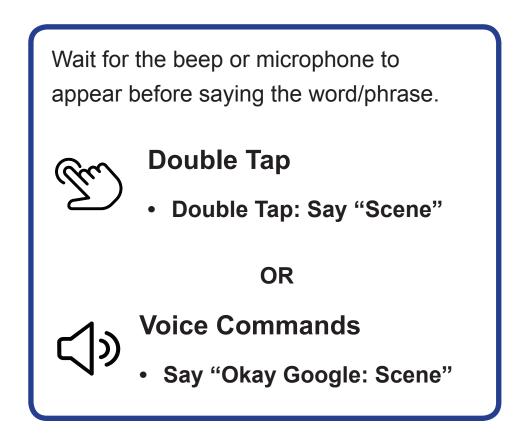
- Say "Enable voice prompts" enables voice for speaking mode entry, battery level, etc
- Say "Disable voice prompts" disables voice for speaking mode entry, battery level, etc

IrisVision Live View Modes



Scene Mode

Scene Mode is your default live-view mode. You can adjust magnification within this mode.





Scene Mode with Bubble

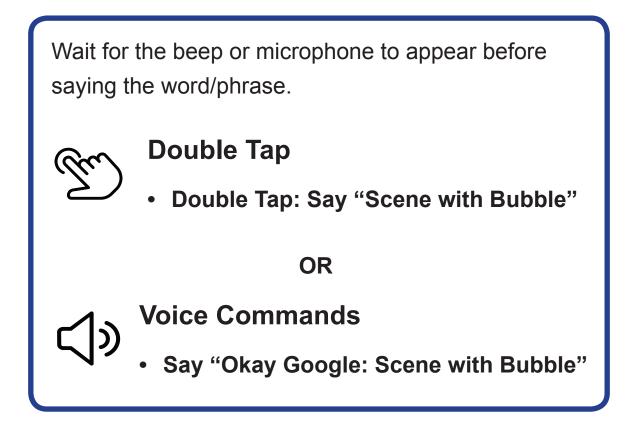


Scene Mode with Bubble allows you to increase magnification within a section of your screen. This prevents you from losing the context of your surroundings.

- **1. Increase Bubble Size**: Swipe up from the bottom of the touchpad to increase the size of the bubble.
- **2. Decrease Bubble Size**: Swipe down from the top of the touchpad to decrease the size of the bubble.
- **3. Magnify Bubble:** Swipe towards your ear to increase magnification inside the bubble. Swipe away from your ear to decrease magnification inside the bubble. Any changes you make to magnification in this mode will occur only in the bubble.



Scene Mode with Bubble - continued



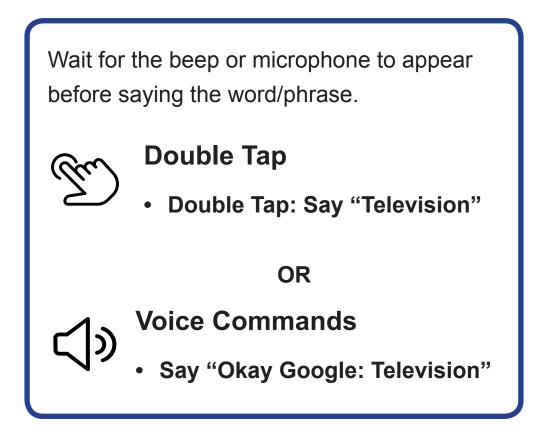


Television Mode

Television mode adjusts to the light at the center of your television or computer screen. You must center the screen you are viewing to optimize use of this mode.

TIPS:

- This mode is better suited to be used for an extended amount of time because it will not enter sleep mode after a period of disuse.
- Use your magnetic braided power cable to watch TV for longer periods of time. Note, this connection will not charge your headset. Refer to "Charging IrisVision" for details.



35

Bioptic Mode



Bioptic mode allows you to view both near and distance objects. In the lower half of the screen, you will see the outline of a box. This functions like the viewfinder on a camera.

- **1. Turn your head** to place the viewfinder in the center of the screen to an area you wish to have magnified. This view will be enlarged in the rectangle in the upper portion of the screen.
- 2. Adjust magnification within the upper rectangle on your screen. Swipe horizontally towards your ear to increase magnification. Swipe away from your ear to decrease magnification.

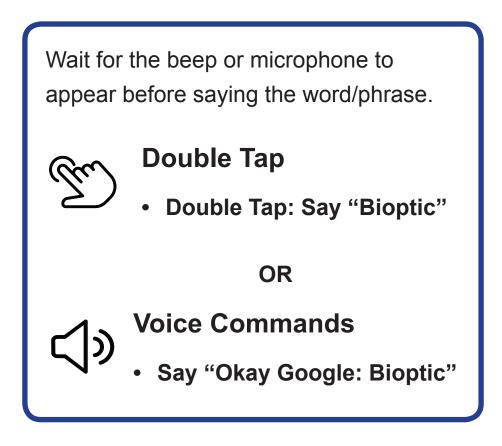
The center point of the magnified view in the rectangle should correspond with the center of the unmagnified view.



Bioptic Mode - Continued

TIP:

- Practice viewing objects in the center viewfinder of the screen and keeping your head steady, zoom in on the touchpad.
- Swipe in or out to magnify what is in the rectangle, then lift your chin to return to the original scene. You will be able to do this more quickly and accurately over time with practice.



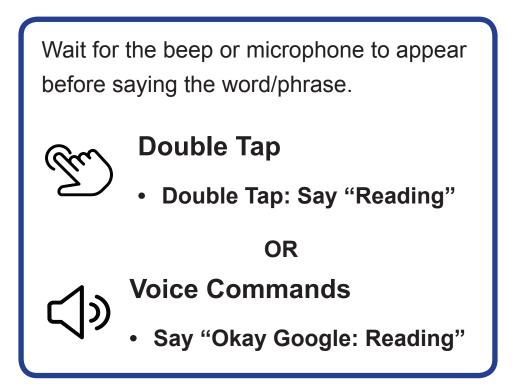


Reading Mode: Black / White

```
Rousseau was right; above the
feeling in the heart. Pascal
reasons of its own, which the
A great book is like a great
many times before it can be r
The intellect may seem at tim
only as a guide leads his mas
```

This mode presents reading material with black letters on a white background. It is for reading text material like books or papers without color.

Note: For reading magazines or materials with color, it is best to return to scene mode. 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.)

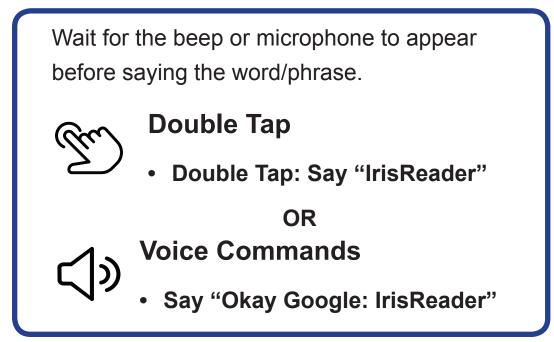




IrisReader

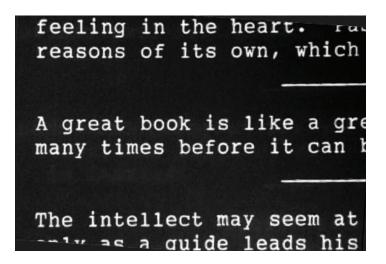
IrisReader uses optical character recognition (OCR) to read aloud text selected by the user.

- Cycle to IrisReader mode and center the text you would like to have read on the screen. If possible, bring it close enough 8-10 inches away or as large as possible, making sure the text is not cut off on either side of the screen.
- 2. Press the snapshot button to activate IrisReader.
- 3. Pause IrisReader by pressing snapshot button once.
- 4. Resume reading by pressing snapshot button again.
- 5. Swipe up on touchpad to increase speed of reading.
- 6. Swipe down on touchpad to decrease reading speed.
- 7. To exit IrisReader, press the mode button.



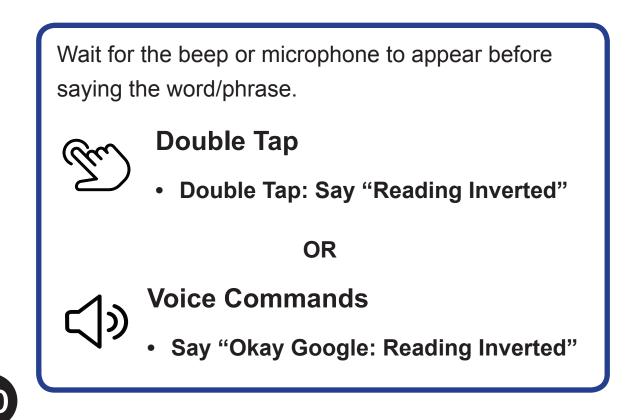
39

Reading Mode: Inverted

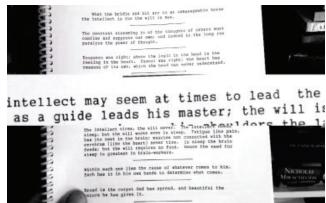


This mode is helpful for many different eye conditions by providing white letters on a black background.

This enhances the contrast and provides reduced glare on the screen, which can be helpful for those overwhelmed by bright scenes.

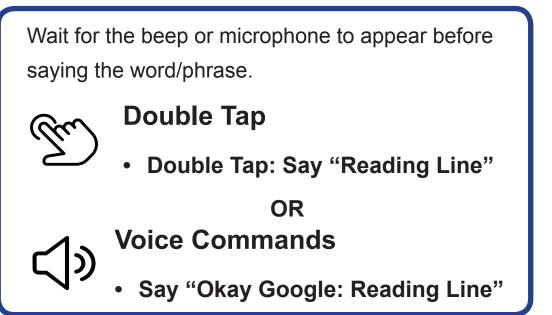


Reading Line Mode

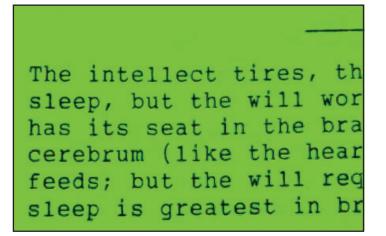


The reading line mode presents text in black letters on a white background. It provides a magnification bar in the center of the screen to magnify one or more lines of text while allowing a normal view above and below the bar.

- 1. Increase the size of the window by slowly swiping up on the touchpad. Swipe down on the touchpad to decrease the size of the window. It is best to make the window large at first. Make the text large enough to read it by swiping towards your ear to zoom in.
- 2. You can now adjust the size of the window to isolate one line or two lines of text. This helps common reading mistakes such as reading the same line twice or skipping a line.

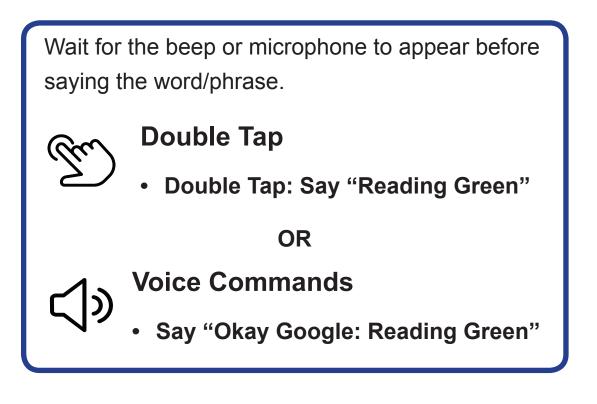


Reading Mode: Green

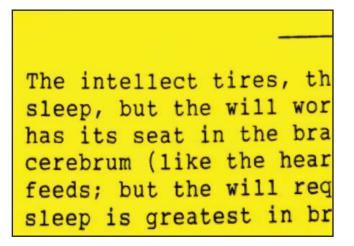


This mode provides black text on a green background. This may also help by providing better contrast without the brightness of a white background.

TIP: Use the brightness switch to make the green background brighter or darker.

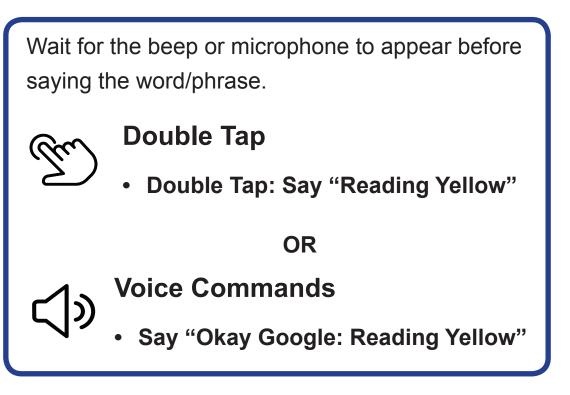


Reading Mode: Yellow



This mode provides black text on a yellow background. It increases contrast without the brightness of a white background, and is helpful when reading for extended periods.

TIP: Use the brightness switch to make the yellow background brighter or darker.





RP (Retinitis Pigmentosa) Mode



Regular Scene



RP 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 entire image into a smaller viewing area.

- 1. Increase the field of view by swiping up on the touchpad.
- 2. Decrease the field of view by swiping down on the touchpad.

Wait for the beep or microphone to appear before saying the word/phrase. Double Tap • Double Tap: Say "RP" OR Voice Commands • Say "Okay Google: RP"



IrisVision Digital Media Modes



Photo Gallery

Photo Gallery mode allows you to view snapshots you have saved.

- **1. Cycle** to Photo Gallery mode.
- 2. Change the highlighted picture by swiping left, right, up, or down.
- **3. Select and open** the highlighted picture by tapping the touchpad once. It will appear in fullscreen view.
- 4. Magnify the selected picture by swiping right or up.
- **5. Decrease magnification** within the selected photo by swiping left or down.
- **6. Pan within the photo** by moving your head left, right, up, and down to capture the entire picture.
- **7. Delete a photo** by first selecting it from the gallery. Once it is displayed fullscreen, press on the touchpad for 3 seconds to activate the delete prompt. Swipe up to delete and down to return to gallery.
- 8. To exit Photo Gallery mode, press the mode button once when in the gallery, or twice when a photo is displayed fullscreen.



Photo Gallery - Continued





Photo Gallery - Continued

Wait for the beep or microphone to appear before saying the word/phrase.



Double Tap

- Double Tap: Say "Photo Gallery"
- Double Tap: Say "Open Photo"
- Double Tap: Say "Exit Photo"
- Double Tap: Say "Next Photo"
- Double Tap: Say "Previous Photo"
- Double Tap: Say "Delete Photo"

OR



Voice Commands

- Say "Okay Google: Photo Gallery"
- Say "Okay Google: Open Photo"
- Say "Okary Google: Exit Photo"
- Say "Okary Google: Next Photo"
- Say "Okary Google: Previous Photo"
- Say "Okary Google: Delete Photo"



Video Player

Video Player mode features voice-enabled search.

- Search: Double-tap the touchpad to activate voice search. Say, "Search" and the title or description of a video.
 Example: Say "Search cats" to see videos of cats.
- **2. Scroll** through the list of available videos by swiping up and down on the touchpad. The video in focus should be highlighted yellow.
- **3. Select** the highlighted video for viewing by tapping once on the touchpad.
- **4. Magnification**: Swipe up on the touchpad to enlarge the video, and swipe down to decrease video size.
- **5. Fast-Forward** in the video by swiping horizontally away from your ear.
- **6. Seek Backwards** in a video by swiping horizontally towards your ear.
- **7. Pause/Resume**: Tap the touchpad once to pause the video. To resume playing, tap the touchpad a second time.
- Return to the video list by pressing the mode button once. To cycle to the next mode, press the mode button a second time.



Video Player - Continued





Video Player - Continued

Wait for the beep or microphone to appear before saying the word/phrase.



Double Tap

- Double Tap: Say "Video Player"
- Double Tap: Say "Next Video"
- Double Tap: Say "Previous Video"
- Double Tap: Say "Play Video"

OR

Voice Commands

- Say "Okay Google: Video Player"
- Say "Okay Google: Next Video"
- Say "Okay Google: Previous Video"
- Say "Okay Google: Play Video"

Recommendations for Use

For additional tips and answers to Frequently Asked Questions, please visit: www.irisvision.com/faq

1. Bubble Size: We recommend keeping the bubble size at medium while zooming in on different objects. Keeping the bubble size at medium will 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 touchpad. The bubble feature is only available in the scene mode with bubble.

Please contact Customer Support if you would like the bubble moved to a different part of your screen.

Remember: do not walk around while wearing IrisVision.

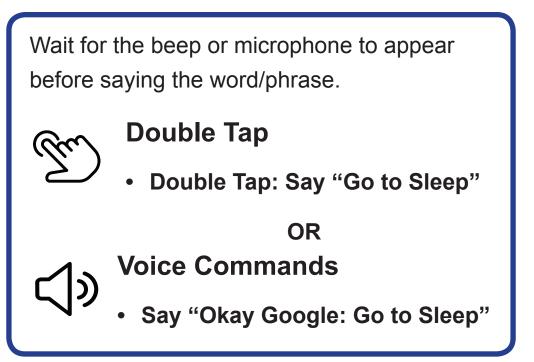
- 2. Reading: Hold your reading material in front of you in a normal reading position and move your head, not your arms, to scan the text. The reading material can be brought closer to you (approximately 6 inches) or further away at any distance. For heavy books or reading materials, you may consider using a bookstand if sitting at a table or desk to keep the reading material steady. A reading light may also help.
- **3. Focus:** The IrisVision has a camera with automatic focus. The camera may 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.



Recommendations for Use - Continued

- 4. When not wearing the headset, always ensure the headset is away from direct sunlight as this can cause damage to the display screen.
- 5. **Help Mode:** Double tap and say "Help" when in any mode to hear a description of that mode and how to use it.
- 6. Sleep Mode: Any time you take off the headset and set it down, the headset will go into sleep mode and the screen will turn black.

This allows the Display Unit to conserve its battery power. Turn the screen back on by putting the headset on and pressing the mode button. The headset 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 down the white tab on top of the headset for 5 seconds.





Wireless Charging Instructions

Your IrisVision will take approximately 5 hours to fully charge and will automatically return to scene mode.

- 1. Plug in the wireless charging pad to an electrical socket. **Note**: Please make sure your headset is turned on.
- 2. Center 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 on the pad.
- 3. If you **DO NOT** hear this tone or see any illumination:
 - Make sure the straps are not sitting inside the headset 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. Instructions on how to remove the display unit are found on page 58.
- 4. A few minutes after being set on the charger, the screen will turn black. When the Display Unit is fully charged, the blue light on the charging pad changes to green and you will hear a verbal prompt.
- 5. If the blue light is not on or if it is flashing, the headset is not charging. Please remove your headset and reposition it until the light remains solid blue.





The charging pad will emit a green light when your headset is fully charged.



Wireless Charging Instructions - continued

Although the headset turns back on within a few minutes of placing it on the Wireless Charging Pad, we recommend that you let it fully charge before using it.

NOTE: If your headset powers down and, it is not responding to any button press, place the headset on the wireless charger.

You may use the cord from the wireless charger and plug it into the display unit after removing the display unit from the headset. This method charges the Display Unit faster than the wireless charger.

NOTE:

- The IrisVision's battery lasts estimated 3 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 headset off during activities when you are not using it.
- Recommend you place your Wireless Charging Pad away from direct sunlight and place in a cool dry environment.



Powering the IrisVision using the Magnetic Braided Power Cable on Headset

This power port can be used for extensive and continuous use beyond what the built-in battery can provide. You may use the magnetic braided power cable included in your kit which will allow you to use an external cell phone battery (not included).

Using this method does NOT charge the built-in battery but provides an alternative power source to operate the headset.

NOTE: This method of powering the headset can sometimes cause it to overheat. In the case that it does overheat, unplug the charging cable and let the headset cool down. In addition, we do not recommend placing it back on the wireless charging pad.



Setting Up Wifi

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

NOTE: IrisVision does not require WiFi to function.

Step 1: Remove IrisVision Display Unit from Headset.

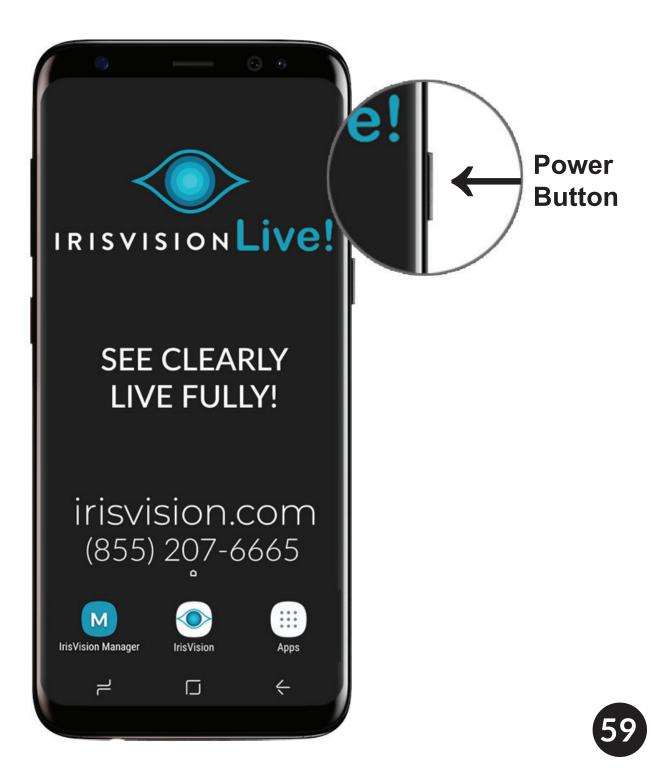
Release the IrisVision display unit from the headset by pushing the clip to the right of the display unit's camera away from the display unit. Carefully remove the display unit and set aside the headset.



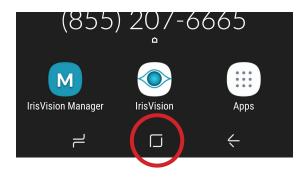


Step 2: Power on Display Unit

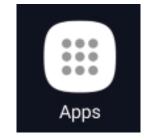
If the display unit is not already powered on, you will need to power it on by pressing the power button on the right side when you are looking at the screen as shown.



Step 3: Configure Wi-Fi



 To access home screen: Swipe up from the bottom of the screen and press the small white rectangular box that appears.



2. Tap the **Apps** icon located at the bottom of the homescreen.

<u></u>		(أن	🛧 89% 🛢 1:10 Pl	M
Setu	ıp			
Activa	le / Disable ate the modes IrisVision app	that will be see	en in the	
	Google As Google Assis	sistant	Voice Match	
Setur Short		settings to setu	p wifi	
	II TextToSpe custom Text		ain IrisVision ap	p
Syst	tem Settii	ngs		
IrisVis	le IrisVision sion Manager sion to run pro	must be enable	ed for	
Enabl	le Configura e the configur n the main Iri	ation mode tha	t will be	
Enabl enabl		SS ss mode that h pts with long pr		
	 		6	

3. Tap IrisVision Manager, then tap "Setup WiFi".

Step 3: Configure Wi-Fi - continued

4. Turn on Wi-Fi.

5. Select your network, then enter your password.

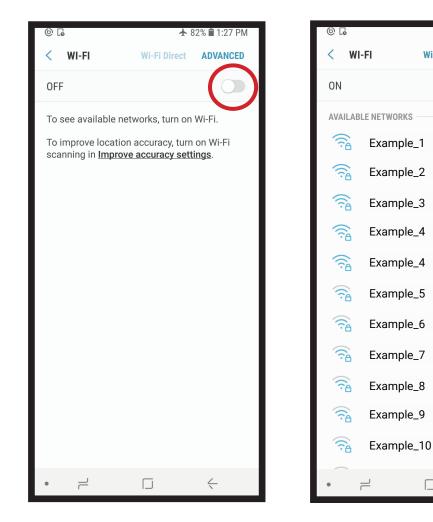
Wi-Fi Direct

 \Box

Ć

🛧 82% 🗎 1:28 PM

ADVANCED





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 A position. Also notice the small lock/unlock switch. The switch should always remain in the lock position.
- 2. Insert the headset's connector into the display unit's connector.
- 3. 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.



Step 4: Connecting Display Unit with Headset - Continued





Cleaning Tips For Your IrisVision Headset

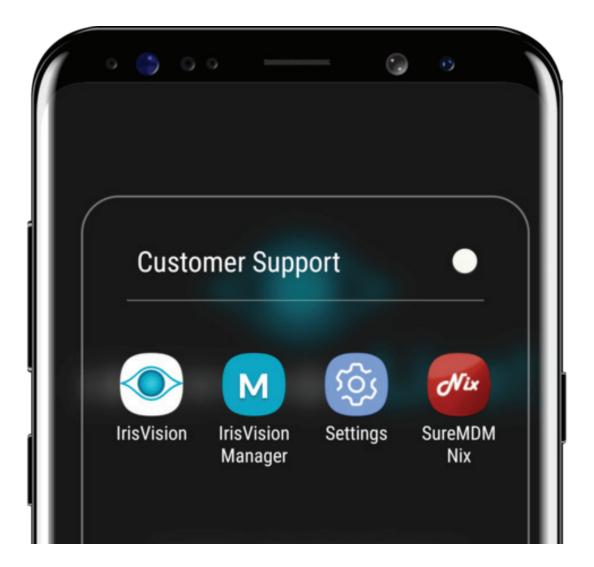
- Make sure you wipe the outer parts of the headset with a dry soft cloth or wipe. The touch pad can collect the oil from your fingers as you operate the headset, so wiping down every now and then is recommended.
- Removing the phone from the headset and wiping down with a dry soft cloth or wipe is also handy. Dust particles and smudges can collect on the screen or camera lens.
- The lens bubbles on the inside and outside of the headset itself can also be wiped down since dust and particles and smudges can collect on these as well.
- The foam lining of the headset that presses up against your face is removable, as well as the velcro straps that go around your head. Run these under warm water, use a mild soap to scrub, then rinse and air dry them.



How to turn off Audio Prompts

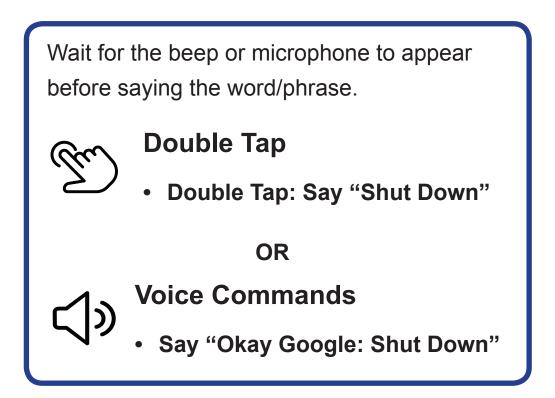
- 1. To turn off audible prompts in IrisVision, press the mode button to cycle through until you reach scene mode.
- 2. Double tap the touchpad then say, "disable voice prompts."
- 3. To enable voice prompts, double tap then say, "enable voice prompts."

These are common apps used when calling into IrisVision for support.



How to Turn off Your Headset

- 1. Hold the white power button down for **7 seconds**. You will hear 4 beeps to confirm that the headset is about to power off.
- 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.
- 3. To turn your IrisVision back on, you will need to hold the power button down for **5 seconds** until you feel the button vibrate. It will take about 45 seconds to reboot fully, then scene mode will appear to let you know it is ready for use.







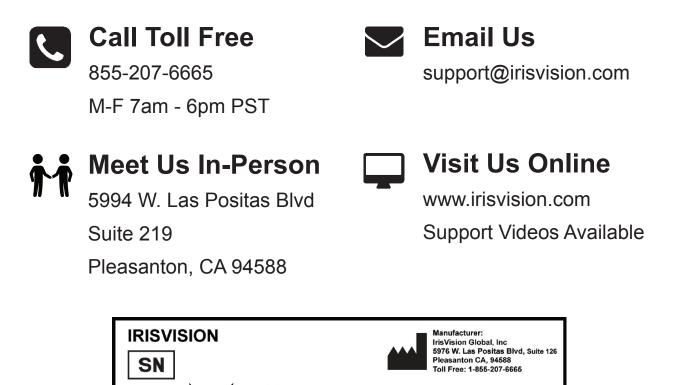
IrisVision Customer Support

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.

Contact Your Clinician

In cases where you have purchased the IrisVision from your clinician, he / she will be able to respond to questions more quickly and efficiently because they are already familiar with your needs.



EC

REP

CMC Medical Devices & Drugs S.L.

C/ Horacio Lengo Nº18

CP29006, Málaga-Spain info@cmcmedicaldevices.com