

# Envision Glasses User Guide



An extensive guide for Envision Glasses users. Find out how to get started, use gestures, access features, and explore all the possibilities of the Envision Glasses.



Updated on October 25, 2022 for Envision Glasses Version 1.8.0.  
For a more up-to-date version of this guide, visit: [support.letsenvision.com](https://support.letsenvision.com)

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# 1. Welcome to the Envision Family



Welcome to your Envision Glasses. We hope you will enjoy the Envision experience and that our products can be of assistance to you in your everyday life.

This document is a detailed guide to help you get started on taking full advantage of all the features available on the Envision Glasses. If for any reason your Envision Glasses are not working as expected, we have also included a list of troubleshooting steps. Additionally, our Customer Success Team is always happy to assist you with any concerns by sending an email to [support@letsenvision.com](mailto:support@letsenvision.com)

The future of wearable cameras that we have all been dreaming of is finally here.



## 2. Getting Started

This chapter contains general information about what Envision Glasses are, what comes in the box, and detailed steps on installing the Envision App, attaching the frame, pairing Envision Glasses with the Envision App, starting the Envision Glasses Onboarding process and updating the software.

### 2.1 What is Envision Glasses?

The Envision Glasses are a wearable assistive device that allows users to independently access the world around them in a way that is convenient, hands-free, and discreet.

Envision Glasses make everyday life more accessible for those with visual impairments by using Envision's award-winning AI technology to turn visual information into speech.

#### **Turn text into speech**

The Envision Glasses enable you to read and export all kinds of text from any surface in over 60 languages. It uses fast and accurate Optical Character Recognition (OCR) to read official documents, letters, street signs, handwritten cards, magazines, books and more. To read it later, you can export the text to have it saved offline in your Envision App.

#### **Conquer any situation with video calling**

In a situation where you would prefer a person to assist you, you can also initiate a hand-free video call to someone you know straight from the Envision Glasses with Call An Ally feature. Request friends, family, and colleagues to see what is in front of you through the camera on the Envision Glasses with the free Envision Ally App.

#### **Find objects and recognise people**

Looking for your keys, coffee cup, or the nearest trash bin? Need to identify your friend in a café or your colleagues at work? With the Find Object and Find People features you can scan your surroundings with the Envision Glasses to have the device find what you are looking for.

#### **Know what is around you**

The Envision Glasses can describe scenes, identify colors, detect the amount of light, and even recognize cash. Find the right items in your closet, go grocery shopping and explore new places on your own.

For more information, please visit [our website](#).

## 2.2 What's in the box?

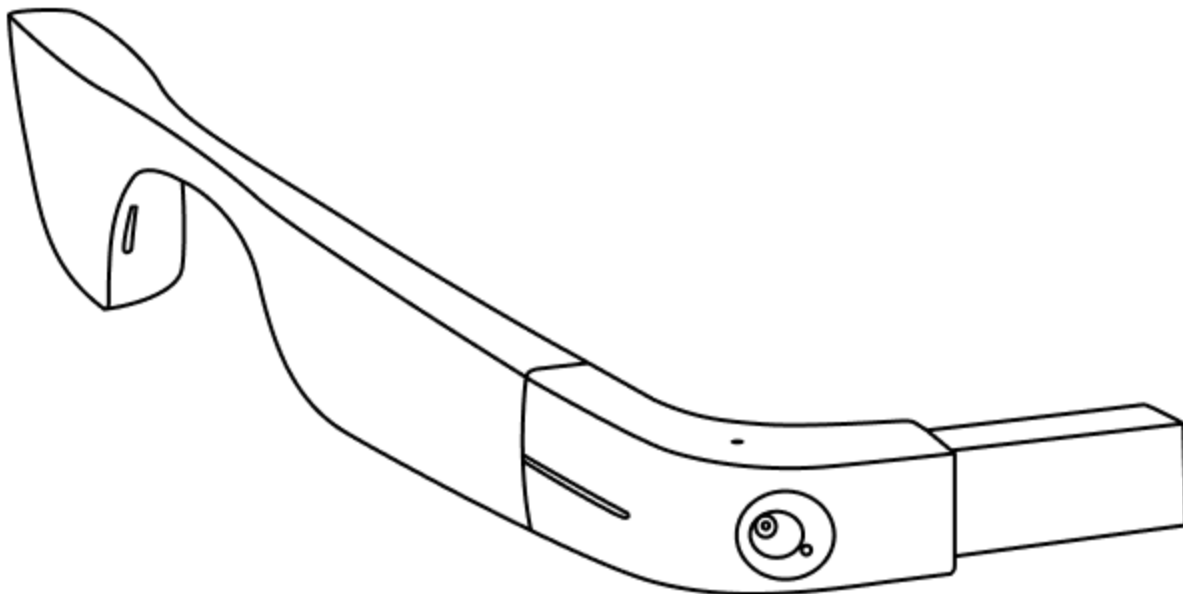
The Envision Glasses box, once you receive it, should include the following items:

- [Envision Glasses Body](#)
- [Envision Glasses Frame](#)
- [Protective Carrying Case](#)
- [Envision Glasses Power Cable](#)
- [Quick Start Guide Card](#)

### 2.2.1 Envision Glasses Body

The body is the main part of the Envision Glasses and it features the processor, the battery, the speakers, and the camera. It is shaped like one half of a spectacle frame and sits on your right ear when you put it on. It weighs roughly 45 grams.

At the back of the body, you can find the battery, the USB-C inlet, the power button, and the speakers. A bit more towards the front you will find the touchpad, located on the outside part next to your temple, when you are wearing the device. The touchpad leads to the foldable front of the body, which consists of the camera and the display. The body is located at the top of the box once you open the lid.

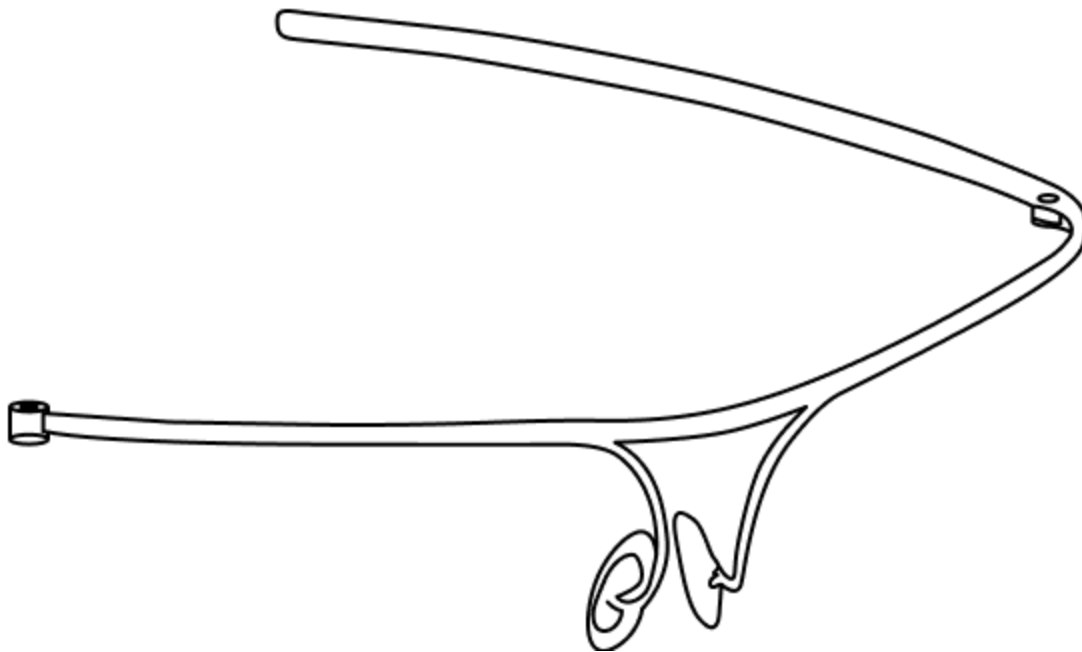


Envision Glasses Body

## 2.2.2 Envision Glasses Frame

By default, Envision Glasses come already attached to the titanium frame. These frames do not have lenses or the possibility to attach them. It has a sleek, minimalist design, and the frame itself is made of titanium, which makes it very lightweight and durable.

Should you prefer to have frames with lenses, you can order additional Smith Optics or Lux frames, which will be shipped in a separate box. You can interchange them easily by detaching the default titanium frame and attaching the Smith Optics or Lux frame. To learn more about how to attach the frame to the Envision Glasses body, please visit the article [Attaching the Envision Glasses Frame](#).



Envision Glasses Titanium Frame

## 2.2.3 Protective Carrying Case

When first shipped, you will find the Envision Glasses inside the black protective carrying case. This zipper-closure case also has a zippered inside pocket to carry the glasses, charging cable and any additional accessories. It protects the glasses when they aren't in use and is ideal for travel and storage.

## 2.2.4 Envision Glasses Power Cable

To charge your Envision Glasses, inside the zippered pocket of the protective case we have added a power cable. This is a USB to USB-C cable. You can plug the cable into any USB power adapter and start charging your device right away. Keep in mind that this

device supports fast charging so, if you have a fast charger adapter, use it to your advantage!

**Disclaimer:** Plugging in the Envision Glasses with the fast charging cable to a computer, will not charge the device in most cases.

### 2.2.5 Quick Start Guide Card

At the very top of the box, you should find a card. This contains instructions on how to pair your Envision Glasses with a mobile phone and the Envision App. This will lead you to the onboarding process which starts with the **Gestures Introduction Training** a tutorial on how to interact with the glasses. Steps on how to pair your glasses can also be found in the article [Pairing your Envision Glasses](#).

## 2.3 Attaching the Envision Glasses Frame

This sub-section contains the following:

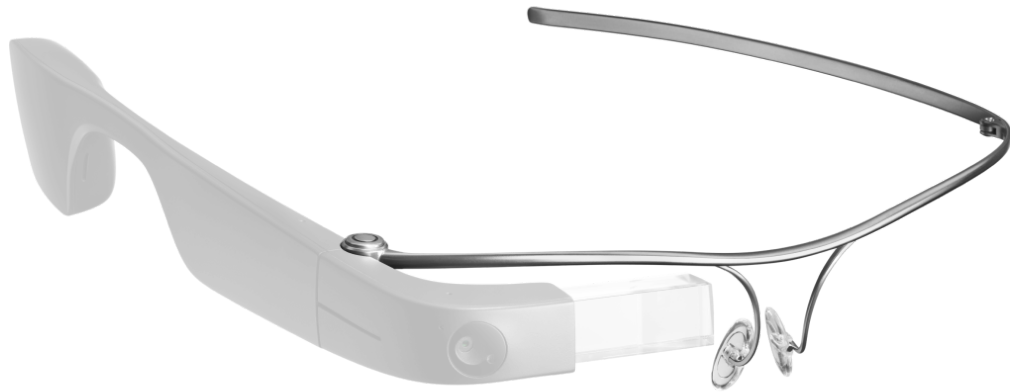
- [Types of Frames](#)
- [Attaching the Frame](#)
- [Detaching the Frame](#)
- [Designer Frames](#)

### 2.3.1 Types of Frames

There are three kinds of frames that can be used with Envision Glasses:

1. **Titanium Frame:** These are the standard lightweight frames that are shipped with every pair of Envision Glasses. This frame does not have lenses or the possibility to attach lenses. It has a sleek, minimalist design, and the frame itself is made of

titanium, which makes it very durable.



2. **Lux Frames:** These stylish designer frames come with elegant prints and clear lenses that can be purchased as an accessory with Envision Glasses. The clear lenses can be replaced by taking them to your preferred optician with custom tinted lenses or polarised sunglasses, in addition to your applicable prescription.



3. **Smith Optics Frames:** These are slightly larger frames and hence can accommodate larger lenses that provide greater coverage of the eye. This frame comes with zero power lenses and can be purchased as an accessory with the Envision Glasses. The zero-power lenses can be replaced by taking them to your preferred optician with custom tinted lenses or polarised sunglasses in addition to

your applicable prescription.



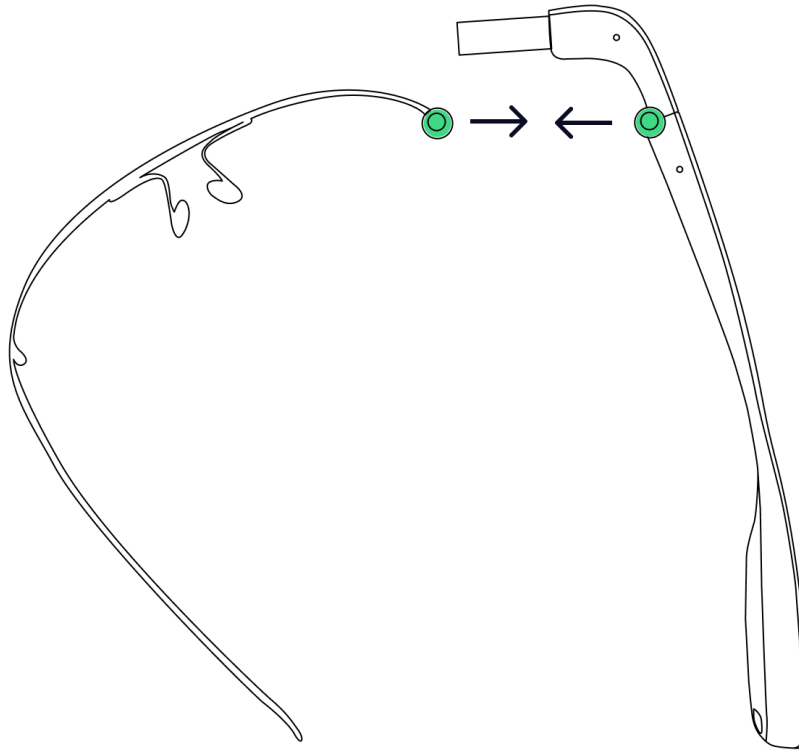
When you purchase your Envision Glasses, by default they are already attached to the titanium frame, therefore should you decide to order an additional Lux or Smith Optics frame, you will have both the titanium frame and the Lux or Smith Optics frame.

If they get detached, here is the instruction on how you can attach them again. These instructions can also be used for the Lux frame or Smith Optics frame, but, in that case, the right earpiece will have to first be detached in order for the Envision Glasses body to take its place.

### **2.3.2 Attaching the Frame**

1. Take the frame and make sure it is in an unfolded position.
2. Make sure that the body of the Envision Glasses is also in an unfolded position. That means that the front of the body, where the camera and display are located, is folded out.
3. With your left hand, take the frame and, with your right hand, take the body of the Envision Glasses. While holding the body with your right hand, make sure your thumb is on the front part and your index finger below, to prevent the body from folding in.
4. Locate the metallic hinge button with your thumb on the top of the body.
5. With your left hand, make sure to grab the end of the frame where you can feel a circular part. This is the circular piece that will fit on the hinge button of the body.
6. Bring the circular piece of the frame on top of the button on the body. You can do this by keeping your left thumb on the circular part.
7. Once the circular part is on top of the button, you will have to lock the frame by turning it clockwise while pressing on the circular part with your right thumb. This will allow you to rotate the frame to its position.
8. You will hear a soft metallic click when the frame is attached to the body.

9. That's it! You can start wearing your Envision Glasses, or practice how to detach the frame with the help of the next guide.



**Envision Glasses Hing Button**

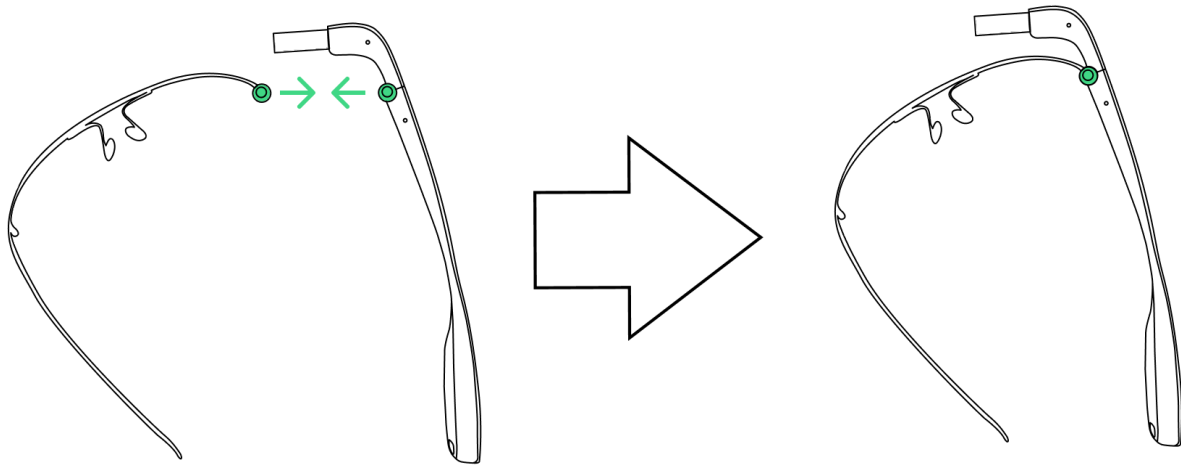
### **2.3.3 Detaching the Frame**

You might have the need to detach the frame to replace it with a different one. Here are the steps you need to follow for that. When you get a Lux Frame or Smith Optics frame, you need to follow similar steps to detach the right arm from them as well, because that right arm is what gets replaced by Envision Glasses body.

Here is how:

1. Take your Envision Glasses off your face and make sure they stay in a folded-out position. This means that the front of the body, where the camera and display are located, is folded out.
2. Hold the frame with your left hand and the body with your right hand.
3. While holding the body in your right hand, make sure your thumb is on the top part of the body, in the area before it curves to the front. Make sure your index finger is behind the part where the camera and glass plate are located.
4. There is a button on the body around the area where your thumb and index are located. Press this button with your thumb.
5. Now, with your left hand, rotate the frame towards you (or counter-clockwise). This will allow you to detach the frame from the body.
6. To detach the frame, push down with your thumb on the connected piece of the frame and body, then push away with your index finger.

At first, the process of attaching and detaching the frames may seem a little complicated. Once you practice it a few times and get the hang of it, it gets pretty easy!



**How to assemble the Envision Glasses**

### **2.3.4 Designer Frames**

One of the arms of the Lux or Smith Optics frame can be detached, similar to how you detach the titanium frame from the glasses through the hinge. The instructions above can therefore also be used for the Smith Optics frame, but, in that case, the right earpiece will have to first be detached in order for the Envision Glasses body to take its place, the right earpiece of the designer frame serves as the Envision Glasses body.

## **2.4 Pairing your Envision Glasses**

You can pair your Envision Glasses with the Envision App by following these simple steps:

1. [Install Envision App](#)
2. [Login to Envision App](#)
3. [Turn on your Envision Glasses](#)
4. [Pair Envision Glasses with the Envision App](#)
5. [Unpairing the Envision Glasses](#)

### **2.4.1 Install Envision App**

Envision is a free app that can be installed from the App Store on iOS or Play Store on Android. Here are the links for both of them:



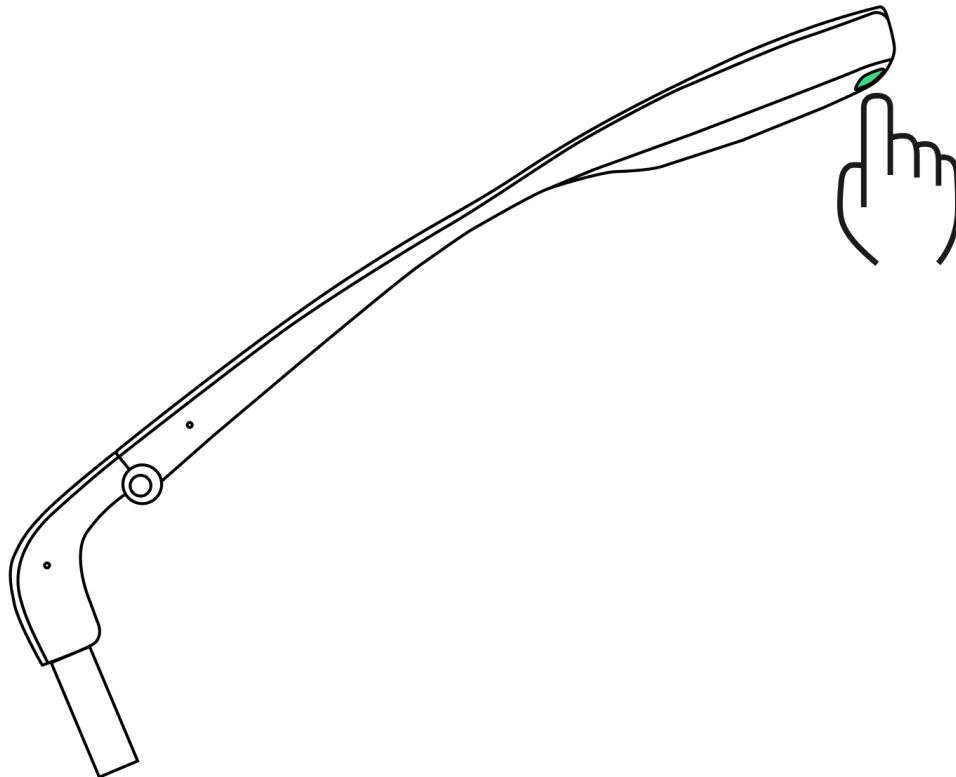
- [Download for iOS](#)
- [Download for Android](#)

### 2.4.2 Login to Envision App

To get started with the Envision Glasses, log in to the Envision App. If you don't have an account yet, an account will be created for you. You can sign up by using your email or other methods. The first account that you pair your Envision Glasses with, will have the lifetime subscription added to it.

### 2.4.3 Turning on your Envision Glasses

Now that your frame is attached to the body, let's turn on the Envision Glasses! You can do so by holding the power button for 6 seconds. The power button is located on the rear end of the glasses on the right side, next to the charging port, on the inside surface. After you have pressed the power button for 6 seconds, please take into consideration that it takes about a minute for the device to boot up, and there is no audio cue during this process. You will know the Envision Glasses are on when they start speaking out on the start screen. The first time you turn the device on, the glasses will speak out a request to '**Go to EnvisionGlasses.com**'.



Envision Glasses Power Button

If the Envision Glasses are not turning on, try charging them with the fast-charging USB-C cable that is provided in the box. This will not only charge your Envision Glasses, but it will also make sure they get powered on.

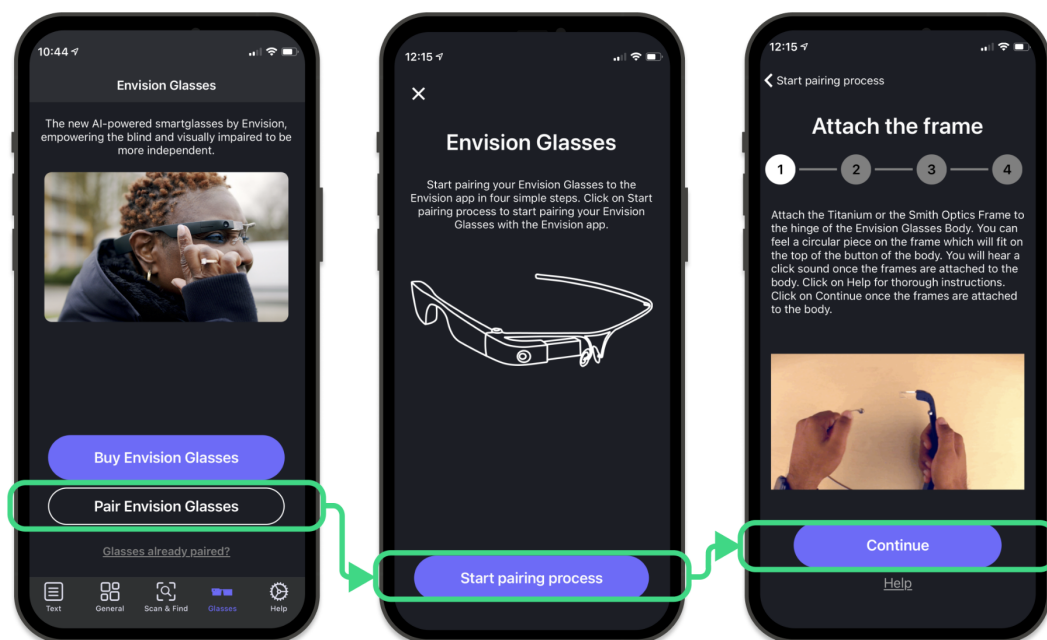
**Note:** Keep in mind that your Envision Glasses will automatically turn on when you unfold them and when you connect them to the power cable.

## 2.4.4 Pair Envision Glasses with Envision App

When your Envision Glasses are powered on and it will continuously speak out to '**Go to EnvisionGlasses.com**' this means the device is on, but not paired with the smartphone, yet.

To start pairing your Envision Glasses with your Envision App, complete the following steps:

1. Open the Envision App.
2. Navigate to the **Glasses** tab.
3. Tap on **Pair Envision Glasses**, and a pop-up will appear.
4. Tap on **Start Pairing Process**.
5. Complete the steps shown on the app, this includes pairing the app and connecting to a Wi-Fi network.
6. In the last step the device is paired with the app and connected to Wi-Fi.
7. Tap on **Continue**.
8. Switch to your Envision Glasses, the **Gestures Introduction Training** will start for you when it is the first time you are using the glasses.



How to pair your Envision Glasses to the Envision App

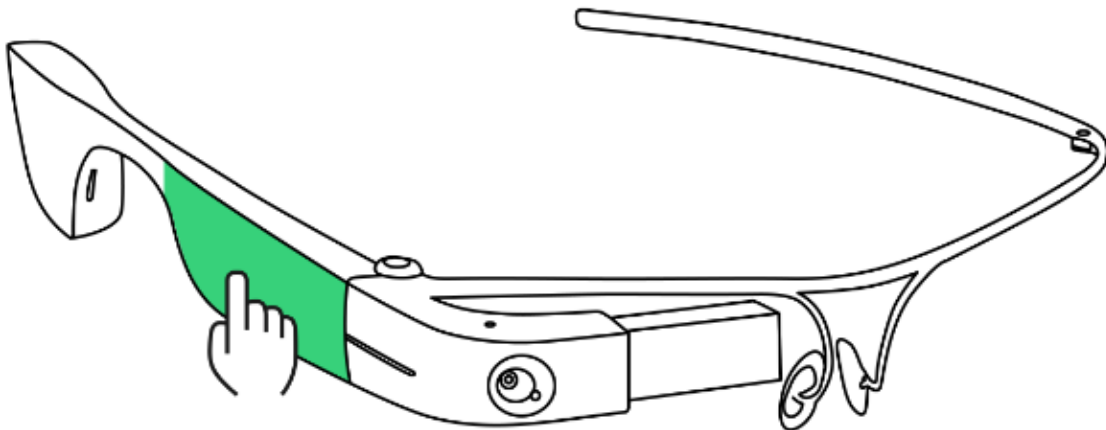
## For Android Users

If you have an Android smartphone, **Location** and **Privacy** settings on your phone need to be enabled in the Envision App in order to pair the glasses. To enable location, follow the steps [here](#).

In some cases, it is also necessary to reset your phone's Bluetooth cache. Here's how:

1. Open **Settings**, and then tap on the option called **Apps**.
2. Tap on the **Sort** icon, located at the top right with three vertical dots, then tap on **Show System Apps** or **Show System Processes**. When this option is selected, all the system apps will appear in a list.
3. Tap on the **Search Bar** and type and select **Bluetooth**, then select the option **Storage** and select the **Clear Data** option.
4. Tap on **Delete** and make sure **Location** is enabled for the Envision App. To enable location, follow the steps [here](#). Now your smartphone is ready to be paired to your Envision Glasses

At this point, you will go through the introductory tutorial on Envision Glasses. You will first be taught where the touchpad is located, afterwards, you will learn about the swipe and tap gestures.



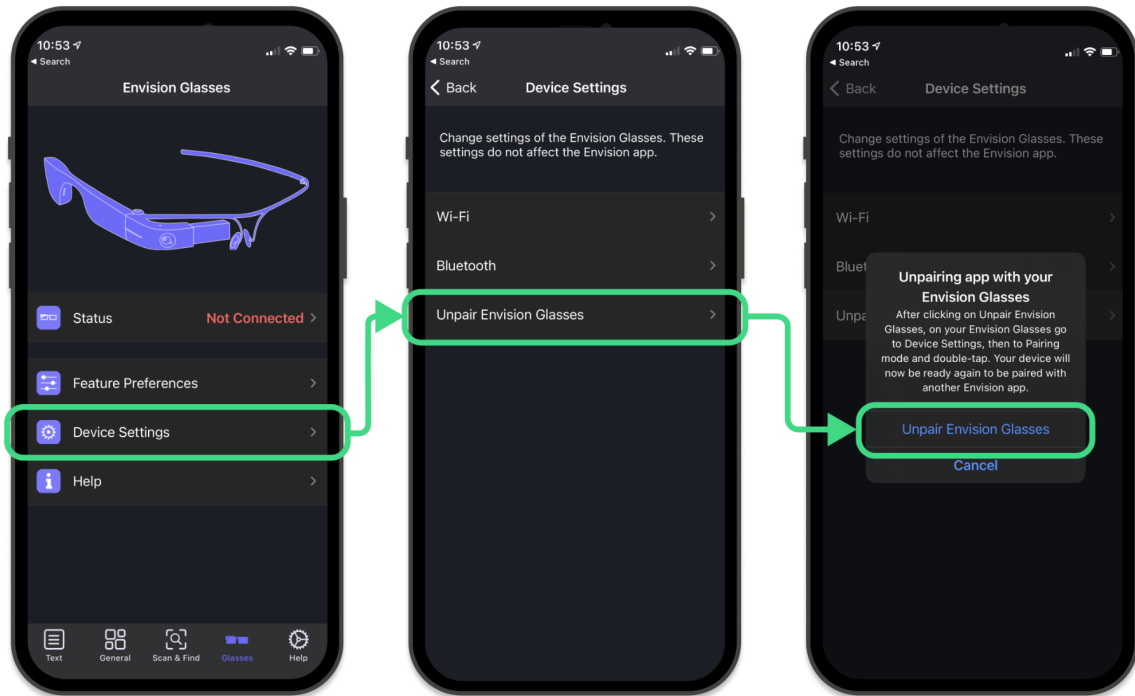
Touchpad location on the Envision Glasses' body.

### 2.4.5 Unpairing the Envision Glasses

If you want to pair your glasses with a different device, you can follow the steps below.

1. Make sure that the app has been unpaired from the glasses by going to the **Glasses** tab, selecting **Device Settings**, and tapping on **Unpair Envision Glasses**.
2. Set the glasses into pairing mode. You can do this on the glasses by going to the main menu, navigating through the menu by swiping forward with one finger until you reach **Device Settings**, and double-tap with one finger on this option.

3. Within the **Device Settings** menu, navigate to the option **Pairing Mode**. Double-tap with one finger to activate it.
4. Your device will now be ready to be paired with another Envision account.



#### How to unpair your Envision Glasses from Envision App

## 3. Interacting with Envision Glasses

This chapter explains touchpad gestures, how to use voice commands and detailed steps to learn how to turn the glasses on and off and put them into sleep mode.

### 3.1 Touchpad Gestures

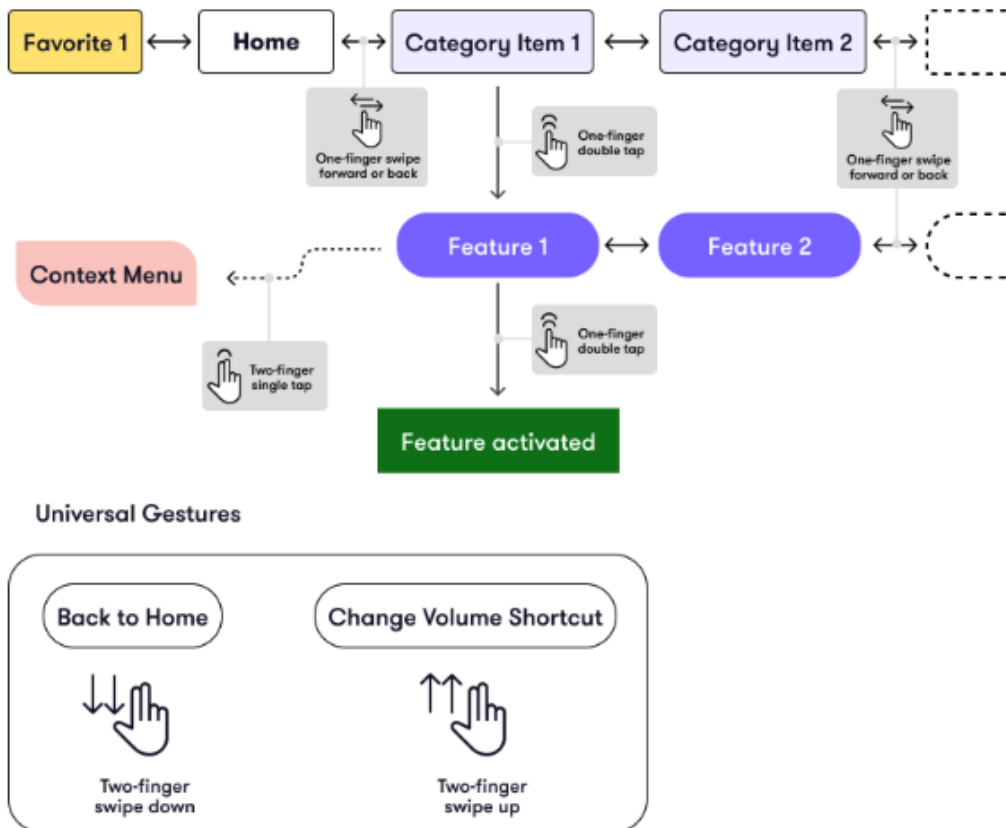
The Envision Glasses are designed in an audio-first way. None of the interactions require vision. Although, if you have some rest vision, you will be able to see a screen that is projected on the glass display in the front of the Envision Glasses.

This chapter explains the following:

- Screens
  - First Level: Main Menu
  - Second Level: Feature Menu
  - Third Level: Activate
  - Fourth level: Context Menu
- Types of Gestures
  - Swipes
  - Taps
- On-Device Tutorials
  - Smart Guidance Training
  - Gestures Training
  - Gestures Tutorial
  - Guides
  - About

#### 3.1.1 Screens

The interface of the glasses consists of a series of screens. A screen is like a page and the content of each screen is always spoken out by our screen reader, informing you about where you are. You interact with the screens by using different gestures on the touchpad.



Conceptual map of the different screens and how to navigate them using different gestures.

The interfaces of the glasses are designed essentially on four different levels, with each level consisting of a menu. Let's go through them:

1. **First Level: Main Menu**
2. **Second Level: Feature Menu**
3. **Third Level: Activate**
4. **Fourth Level: Context Menu**

## First Level: Main Menu

After completing the Gestures Tutorial on the Envision Glasses, you will end up on the **Home** screen. This is also the start of the category menu.

Each screen in this level represents a category of actions you can complete. You can scroll through the screens in this menu by doing a one-finger swipe forward and back. The category menu is as follows: **Home**, **Read**, **Call**, **Identify**, **Find**, **Device Settings**, **Feature Preferences** and finally the **Help** category.

## Second Level: Feature Menu

When you double tap at any screen on the main menu, except for the **Home** screen, you will enter the second level, which is the feature screen. The feature screen will consist of all the features that are linked to the category you just selected from the main menu.

For example: If you select **Read** from the main menu, you will get the features **Instant Text**, **Scan Text**, and **Batch Scan**. If you enter the **Device Settings** screen, you will find options such as **Audio**, **Wi-Fi**, **Bluetooth**, **Language**, **Display**, and more.

## Third Level: Activate

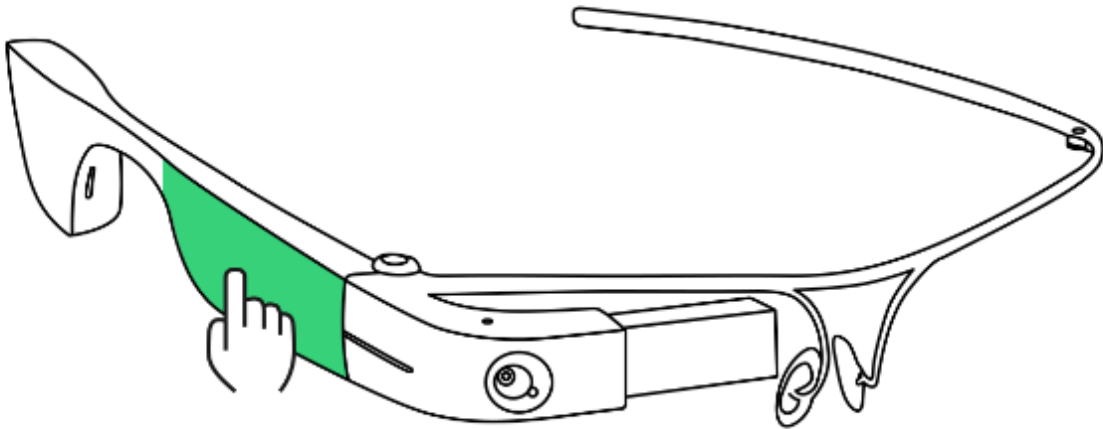
The third level, in most cases, is where a certain feature is active and ready to perform. This is activated with a one-finger double tap on any feature from the feature menu. If you select **Instant Text**, it will start reading out things to you, or, if you select **Describe Scene** it will go ahead and capture what's in front of you. This is the only level where your camera is actually active and capturing. On all other levels, the camera is off.

## Fourth level: Context Menu

The fourth, and final level, is the preferences level, where you will find the **Context Menu**. On the **Context Menu**, you can choose any additional option that exists for a feature and is activated by doing a two-finger single tap on that particular feature. One example is in the **Instant Text** feature: by doing a two-finger single tap, it will show you the preferences menu to enable or disable **Offline Mode** recognition.

### 3.1.2 Types of Gestures

The Envision Glasses menu is controlled by the gestures made on the touchpad. The touchpad is located towards the front of the body, on the side. It covers the area that goes from the fold of the body until the smaller part that sits on top of your right ear. During the Gestures Tutorial, the tutorial that is given when you pair your glasses for the first time, you will be able to discover where the touchpad is located. While you are in the menu, try to use the touchpad and see where it reacts to you tapping it. This will allow you to understand where the touchpad ends. You could also use the Gestures Training in the **Help** category to practice the gestures.



**Location of the touchpad on the Envision Glasses' body.**

There are two kinds of gestures that can be performed on the glasses: **Swipes and Taps.**

## **Swipes**

Swipes are mainly used to navigate through different screens and levels in the glasses and taps are used to interact with particular screens and features.

There are five kinds of swipes:

### **One-finger swipe forward**

A one-finger swipe forward is done by putting one finger at the back of the touchpad, near your ear, and moving it to the front while holding your finger on the touchpad. This gesture is used to navigate to the next item in the main, or feature, menu. It is also used in the settings screens to increase a value, such as the volume or speaking rate.

### **One-finger swipe back**

A one-finger swipe back is done by doing the opposite gesture of a swipe forward. Put your finger at the front of the touchpad and move your finger to the back, towards your ear. This gesture is used to navigate to the previous screen in the main, or feature menu. It is also used in the settings screens to decrease a value.



## One-finger swipe down

A one-finger swipe down is done by starting at the top edge of the touchpad and swiping gently down towards the ground. This gesture is used to exit a screen or go to the previous screen or menu. It can be compared to a back button on the smartphone.

## Two-finger swipe down

A two-finger swipe down is done by starting at the top edge of the touchpad and swiping gently down towards the ground, with two fingers. This gesture allows you to go back to the **Home** screen from anywhere inside the Envision Glasses operating system. When doing a two-finger swipe down on the **Home** screen, your device will be set to **Sleep Mode**. A great tip for this gesture is to make sure that the middle finger and index finger are hooked at the same level, are 1 centimetre apart and that both fingertips are positioned on the touchpad before swiping all the way down.

## Two-finger swipe up

A two-finger swipe up is done by starting at the bottom edge of the touchpad and swiping gently upward towards the sky. This gesture can be used anywhere you are to open the volume shortcut and quickly access the volume settings. **Keep in mind:** the only screen on which this shortcut cannot be used is during a call with an Ally or an Aira agent. In this case, you can do a one-finger swipe forward and back to increase and decrease the volume. A great tip for this gesture is to make sure that the middle finger and index finger are hooked at the same level, are 1 centimetre apart and that both fingertips are positioned on the touchpad before swiping all the way up.

# Taps

Now, let's learn about tap gestures! These are mainly used to interact with particular screens and features and are of four types:

## One-finger single tap

A one-finger single-tap is done by tapping with one finger on the touchpad. Put your finger on the touchpad and take it off. This gesture is used as a play/pause feature for the screen reader. Doing a one-finger single tap on any menu item will also speak out that screen again.

## One-finger double tap

A one-finger double-tap is done by doing two quick taps on the touchpad with one finger. This gesture is used when you want to activate or enter into a specific screen. By double-tapping with one finger on a feature screen, you will enter/activate the feature screen. This is similar to double-tapping with TalkBack or VoiceOver on your phone to activate something.

## One-finger tap and hold

The one-finger tap-and-hold gesture is done by placing one finger on the touchpad and leaving it on the touchpad for a second. When you tap and hold on any screen, it provides you with additional information and a description of what that menu, or feature, is. So if you are ever lost or unsure about how to use a feature, you can just tap and hold with one finger when you are on that feature. This gesture can be compared to a long-press or a force touch on the smartphone.

## Two-finger single tap

A two-finger single tap gesture is done by tapping once with two fingers at the same time on the touchpad. This gesture is used to access more options for any feature that you are currently on. It can be compared to a right-click on a desktop or long-press on most smartphones. When you are on a feature, you will be able to access its options instead of navigating to the feature preferences menu.

## 3.1.3 On-Device Tutorials

The last category in the main menu of Envision Glasses is **Help**. It contains the Smart Guidance Training, Gestures Training, Gestures Tutorial, Guides, and About screen.

### Smart Guidance Training

The Smart Guidance Training is an area designed for you to understand how to position and hold a document in front of the camera and have it automatically captured.

To access the **Smart Guidance Training**, follow these steps:

1. Navigate to **Help** in the category menu.
2. Go to the **Smart Guidance Training** and do a one-finger double-tap.
3. The screen reader will announce that the training is starting followed by a sound. After this, you can begin to practice positioning a document in front of the camera. Once you're inside the training, you can do a one-finger swipe down to exit.

### Gestures Introduction Training

The **Gestures Introduction Training** is an area to practice gestures of the Envision Glasses. Here, any gesture you try will be spoken out and described by the glasses. Not sure what a two-finger single tap does? Simply enter the Gestures Training and try it for yourself.

To access the **Gestures Introduction Training**, follow these steps:

1. Navigate to **Help** in the category menu.
2. Go to the **Gestures Training** and do a one-finger double-tap.
3. The screen reader will announce that the Playground is starting followed by a sound. After this, you can begin to try gestures.
4. To exit the **Gestures Introduction Training**, do a two-finger swipe down. The available gestures are as follows: swipe forward, swipe back, swipe down, single tap, double-tap, two-finger single tap, and tap and hold.

## **Gestures Practice Training**

The **Gestures Practice Training** that takes place during the onboarding process of the Envision Glasses can also be found here. This training will introduce you to the touchpad and swipe and tap gestures.

To access the **Gestures Practice Training**, follow these steps:

1. Navigate to **Help** in the category menu.
2. Go to the **Gestures Practice Training** and do a one-finger double-tap.
3. The screen reader will announce that the tutorial is starting followed by a sound. After this, you can begin to learn about gestures. To exit the **Gestures Practice Training**, do a two-finger swipe down.

## **Guides**

The Guides provide an explanation of the Envision Glasses features. This explanation includes when you can use the different functionalities, for you to get the most out of your Envision Glasses. Whenever you forget what a feature does or how it works and what you should do to use it, you can look in this section for further details!

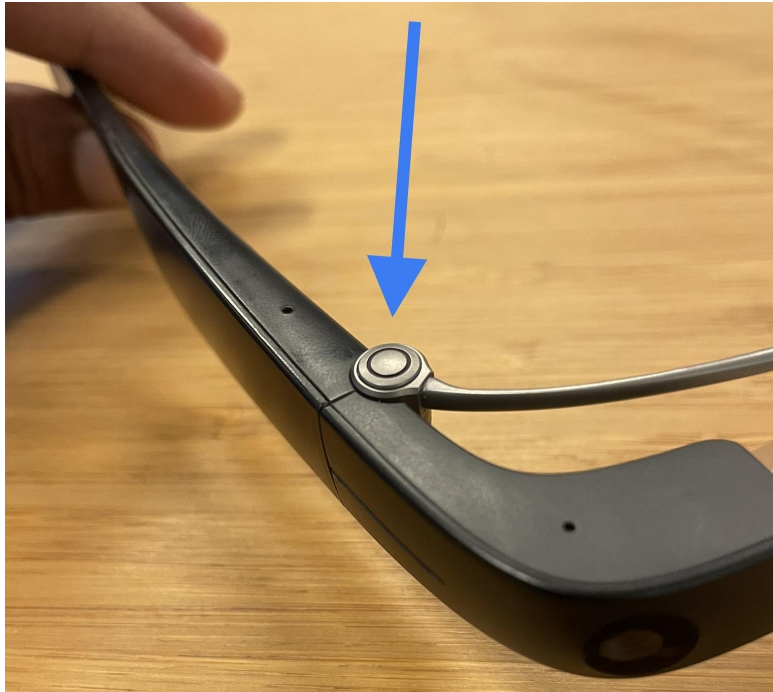
## **About**

This option will simply let you know which software version your Envision Glasses are running.

## **3.2 Voice Commands**

With Voice Commands, you can now press and hold the Hinge Button on the Envision Glasses and simply speak which function you would like it to open, and voila, it just opens. Sounds too good to be true? Try it for yourself!

The Hinge Button is located where the titanium frame meets the plastic body of your Envision Glasses. Found on the top of the body of the glasses. If you have trouble locating it, you can find a picture below, which you may be able to show to a sighted friend to request help.

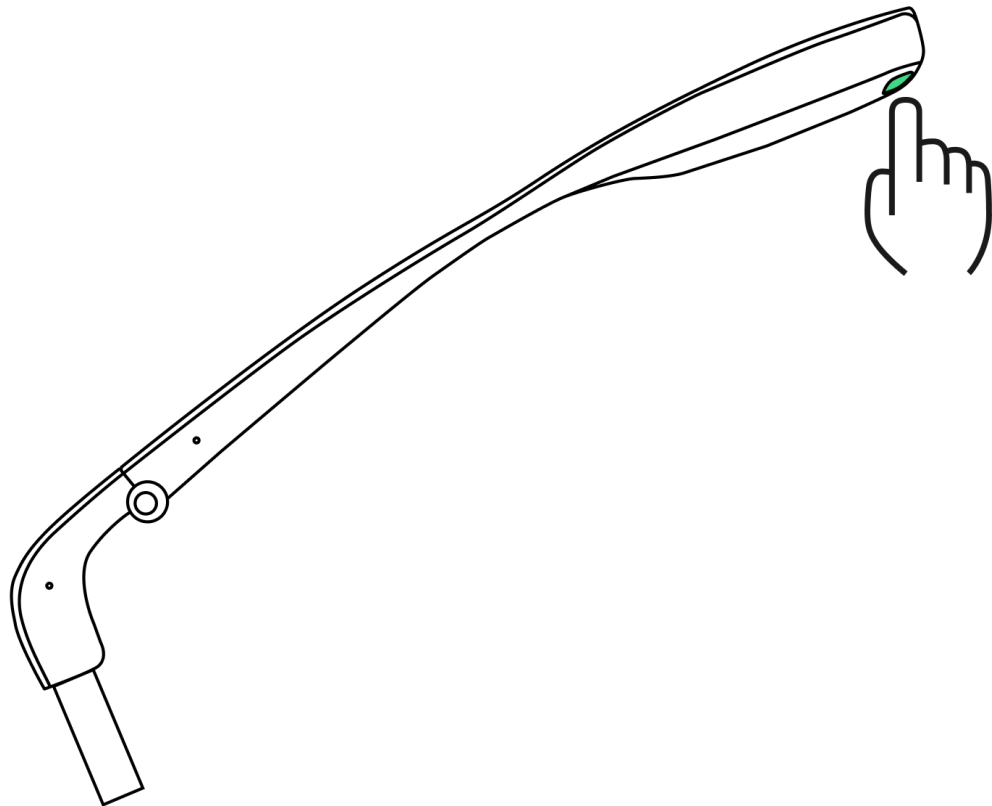


Envision Glasses currently will be able to recognise the following commands, only English for now: Go Home, Instant Text, Scan Text, Batch Scan, Call an Ally, Call An Aira Agent, Describe Scene, Detect Light, Recognise Cash, Detect Colors, Find Object, Find People, Explore and Change Volume.

We will continue to add more features and languages to **Voice Commands** and improve its ability to understand what you need. We eagerly look forward to your feedback on how you would like to see this feature evolve in the future!

### 3.3 Power Button

The power button is located on the back of the glasses, near the charging port, on the inner surface. You can feel it protruding slightly from the surface and it has a different texture. Don't confuse it with the circular Envision logo, which also protrudes, but is on the outside. The power button is the only physical button on the Envision Glasses and allows you to turn the Envision Glasses on and off, put them into **Sleep Mode** or resume them. Everything else is done with the touchpad on the side.



**Location of the power button on the Envision Glasses.**

### **3.3.1 Power On**

To power on your Envision Glasses, you can do so by holding the power button for 6 seconds. The power button is located on the rear end of the glasses, next to the charging port, on the inside surface. Please, be patient once you have pressed on it for 6 seconds, as it takes about a minute for the device to boot up, and there is no audio cue during this process.

For the first time, you will know that Envision Glasses are on when they speak out the start screen, which says '**Go to EnvisionGlasses.com**', this simply means that your glasses are

ready to be paired with your Envision App. For more information, see [Pairing your Envision Glasses](#)

Once you have paired Envision Glasses, you can also turn them on by unfolding them. This process is done automatically and can take between 20 seconds to 2 minutes, depending on usage, as the glasses need time to load all the preferences of the device. You know your Envision Glasses are on when you hear the word **Home**.

### 3.3.2 Power Off

To turn off your Envision Glasses, press and hold the button for 3 seconds. You will hear a sound when the Envision Glasses initiate the power-off process, which completes in 20 seconds.

We recommend shutting down Envision Glasses if you are not going to use them for the next three hours. If you are going to use them in the next three hours, we recommend that you simply put them in **Sleep Mode**.

Keep in mind that your Envision Glasses will automatically turn on when you unfold them and when you connect them to the power cable even if you have already powered them off. We recommend that when you turn them off, you fold them up and put them in the protective case to ensure that the glasses will have battery power when you need them.

### 3.3.3 Sleep Mode

When the glasses are not being used, it is best to put them on sleep mode in order to conserve battery. There are different ways to set your device to sleep mode:

1. **Folding the glasses:** The most convenient way to put your glasses to sleep is by folding the frame. The hinge sensor will detect that your glasses are folded in and it will set them to sleep mode. An audio cue is provided when the glasses are awake or set to sleep mode.
2. **Power button:** By pressing once the power button, the device will go to sleep. This will happen both when the Envision Glasses are folded out and in.
3. **Home Screen:** Go to **Home** and do a two-finger swipe down. The glasses will beep and that means they are now in **Sleep Mode**. Alternatively, if you are on the **Home** screen, it will automatically go to sleep after 30 seconds.
4. **Settings:** Go to **Device Settings** and then select the **Power** option. The **Sleep** option will appear. Do a one-finger double tap to put them to sleep. The glasses will beep and that means they are now in **Sleep Mode**.

## 4. Read Features

This category contains all the features that enable users to read all kinds of text.

## 4.1 Instant Text

This feature instantly reads any text that is detected by the camera. It is the quickest way to read a short piece of text. This is ideal for reading short pieces of text that you want to scan through.

This chapter contains:

- [How to activate Instant Text?](#)
- [Do you want to pause Instant Text?](#)
- [Do you want to switch between online and offline Instant Text?](#)
- [Setting a Recognition Language on Instant Text](#)

### 4.1.1 How to activate Instant Text?

Here is how:

1. Go to **Read** and do a one-finger double-tap.
2. Go to **Instant Text** and do a one-finger double-tap.
3. The camera is activated and every piece of text will be read.

### 4.1.2 Do you want to pause Instant Text?

Do a one-finger single tap to pause the text being spoken out. It will be paused until you do a one-finger single tap again to activate **Instant Text**.

### 4.1.3 Do you want to reset Instant Text?

Is the text still reading out what you were pointing your glasses at previously? Then do a one-finger double tap to reset instant text and it will start reading out the new piece of text.

### 4.1.4 Do you want to switch between online and offline Instant Text?

It is possible to use instant text offline for reading some languages, for the full list please check the article Languages Envision Recognises. We recommend using online instant text if you are connected to a reliable Wi-Fi network. If that is not the case and you would like

to read one of the languages that are supported by the glasses, then enabling the offline mode is a great solution.

There are two possible ways to switch between online and offline **Instant Text**. The first option is by doing a two-finger single tap on the **Instant Text** screen. The second option is to change the settings in the **Feature Preferences** category.

To enable **Offline Mode** in **Instant Text**, select one of the two options below and follow these steps:

#### Option 1: Two-finger single tap

1. Go to **Read**.
2. Two-finger single tap on **Instant Text**.
3. You will enter the **Context Menu** screen and the screen reader will read out whether the offline mode is enabled or disabled.
4. Do a one-finger double tap to toggle **between** the offline mode being enabled or disabled.
5. Swipe down with one finger to confirm your selection and navigate back to the **Instant Text** screen.
6. Do a one-finger double tap on **Instant Text** and it will start speaking out text in the mode that you chose.

#### Option 2: Feature Preferences Menu

1. Go to **Feature Preferences**.
2. Go to **Instant Text**.
3. Do a one-finger double-tap to toggle **between** the offline mode being enabled or disabled.
4. Swipe down with one finger to confirm your selection.

### 4.15 Setting a Recognition Language on Instant Text

You can choose a language to read the text with **Instant text**. This helps to better understand the text you are reading, as it will be spoken out in the correct language. By default, **Instant Text** will use your system's language to determine the language to recognize when scanning text. This means that if your Envision Glasses are set in English, all the text will be spoken out with English pronunciation even if the text you are reading is in Spanish, for example. In **Instant Text**, you can manually set the language to recognize



by opening the **Context Menu**. In this case, your Envision Glasses system could still be in English, but your **Instant Text** would read out any scanned text in Spanish.

## 4.2 Scan Text

This chapter contains a detailed explanation of **Scan Text** and the following features associated with it:

1. Scan Text
2. Smart Guidance
3. Word Detection
4. Language Detection
5. Layout Detection
6. Reader

### 4.2.1 Scan Text

**Scan Text** allows you to take a scan of a document or a piece of text. Whereas **Instant Text** starts reading out any text around you instantly. **Scan Text** is meant for more dense and longer pieces of text and for reading handwritten text. Additionally, the scanned text is opened in the reader which allows more controls to play, pause or navigate to specific parts of the text.

### 4.2.2 Smart Guidance

**Scan Text** offers guidance in the positioning of the document in front of the glasses. With **Smart Guidance** you get voice commands on where to move the document you want to scan so that it is correctly captured by the glasses.

Follow the steps to activate **Scan Text** with **Smart Guidance**:

1. Go to **Read**.
2. Go to **Scan Text** and do a one-finger double tap.
3. The camera is now activated and will start detecting words.
4. Grab a document and hold it in front of you. To do this correctly: Fully stretch out your arm in front of you towards the center of your right eye and make sure to hold it steady. **Smart Guidance** works by detecting the edges of your document. So make sure to hold the document straight and that the document isn't bent. You will hear some commands such as '*Move document left*', which will guide you to position the document correctly in front of the camera.

5. Once the document is completely on the camera view, a picture will be automatically taken. You will hear a capturing sound, followed by a processing sound, which means that the picture was taken and is being processed.
6. Your text is processed and will be opened in the reader, where you can read it.

### 4.2.3 Word Detection

With **Word Detection**, you can understand how much of the text in front of you is captured by the camera and adjust the document accordingly.

Follow the steps to activate **Scan Text** with word detection:

1. Go to **Read**.
2. Go to **Scan Text** and do a one-finger double tap.
3. The camera is now activated and will start detecting words.
4. Grab a document and hold it in front of you. The more words it detects, the higher the frequency of taps that will be played. Keep in mind that the type of document and the amount of words determine the frequency of taps that will be played.
5. Once you think the frequency of the taps will not go any higher, do a one-finger double-tap again to capture the text.
6. Your text is processed and will be opened in the reader, where you can read it.

### Do you want to Scan Text without Smart Guidance or Word Detection?

1. Go to **Read**.
2. Go to **Scan Text** and do a one-finger double-tap.
3. Point the camera to the text that you want to scan.
4. You will hear a countdown sound, followed by a capture sound. This means the picture was taken and is being processed.
5. Your text is now opened in the reader and you can read through the scanned text.

### 4.2.4 Language Detection

Listen to a piece of text being spoken out in the correct language and voice. This option can be turned on within the context menu of **Scan Text** and **Batch Scan** if you're reading text that could be in a different language than your system language. If the same piece of document has multiple languages, the voice will automatically switch between paragraphs. Use this if you come across multilingual documents or when you're traveling abroad and would like to keep your glasses in one language while using Instant Text to scan for a different language.

### 4.2.5 Layout Detection

Layout Detection recognizes columns and headers in text. This option can be turned on within the context menu of **Scan Text** and **Batch Scan** if you are reading text that has more than one column or headings. When you are reading menu cards, bank statements, or vertically written text it is better to disable layout detection. Keep in mind that enabling **Layout Detection** increases the processing time.

#### Do you want to switch Smart Guidance, Word Detection, Language Detection, or Layout Detection on or off?

To switch Smart Guidance, Word Detection, Language Detection, or Layout Detection on or off, you will have to open the context menu by doing a two-finger single tap on the **Scan Text** feature or **Batch Scan**. Each of these items will be spoken out as you swipe forward or backward with one finger. When you hear the option you want to adjust, you can do a one-finger double-tap to toggle the setting. To confirm the settings, do a one-finger swipe down. This will bring you back to the 'Scan Text' screen and you can start using Scan Text with your preferred way of scanning text. You can also change these settings on the menu **Feature Preferences**. For this, you need to go to Feature Preferences from the main menu and change the behavior for each setting.

**Note:** Currently you have to choose between **Smart Guidance** or **Word Detection**. So in case you enable **Smart Guidance**, then **Word Detection** will be automatically disabled and vice-versa.

#### Do you want to read handwritten text?

The Envision Glasses are also able to read handwritten text, though a doctor's note might not make the cut! This is not a separate feature but built right into the **Scan Text** feature. Simply grab a piece of paper, write something on it or grab a Happy Birthday card that you received and scan it by using the **Scan Text** feature.

### 4.2.6 Reader

The **Reader** automatically opens after the text is scanned. The **Reader** allows you to scroll through the text and to play and pause the reading. You can use the following gestures in the reader:

1. **One-finger single tap:** Play and Pause speech.
2. **Two-finger single tap:** Export text to the Envision App.
3. **One-finger swipe forward:** Scroll to the next phrase of the scanned text.

4. **One-finger swipe back:** Scroll to the previous phrase of the scanned text.

### How to export scanned text to your phone?

The Envision Glasses have the possibility to export the text to the library on the Envision App.

1. Do a one-finger double-tap on **Scan Text** and take a scan of the text that you would like to have exported. The text will open in the **Reader**.
2. Now, in the **Reader**, do a two-finger single tap, this will export the text.
3. Open your Envision app on your phone.
4. Go to the Envision App library and select **Import File** and then **Import from Glasses**. The scanned text will then be available in the library on the Envision App.
5. If needed, you can download the scanned text or share it with other apps on your phone.

**Note:** This feature only works in **online mode**, therefore it is necessary to be connected to a stable network to get the most out of it. That does not mean when you are not connected to the internet you can not use the device. To find out which features do not require an internet connection, see Which features work without an Internet connection?

## 4.3 Batch Scan

**Batch Scan** allows you to scan more than one document at a time. You can read multiple pages of text in one sitting by scanning multiple images consecutively. This is then processed and spoken out as paragraphs and pages that you can scroll through at your own pace. This feature could be used for reading multi-page documents such as magazines and books. The context menu behaves the same as the **Scan Text** feature. The gestures to scan a second page are different and explained below.

To scan two or more pages, follow these steps:

1. Go to **Read**.
2. Go to **Batch Scan** and do a one-finger double-tap.
3. Depending on whether text detection is enabled, you will be informed that the first page is scanned.
4. Do a one-finger double tap again to scan the second page. Repeat this step for the pages that follow.
5. If you are done scanning the pages or pieces of text, a two-finger single tap to complete scanning.
6. A success sound will be played and all scanned text will be opened in the reader. Just like the **Reader** that opens after **Scan Text**, the text with multiple pages that you scan with Batch Scan can also be exported to the Envision App.

**Note:** This feature only works in **online mode**, therefore it is necessary to be connected to a stable network to get the most out of it. That does not mean when you are not connected to the internet you can not use the device. To find out which features do not require an internet connection, see [Which features work without an Internet connection?](#)

## 4.4 Handwritten Text

The Envision Glasses are also able to read handwritten text, this is not a separate feature but built right into the [Scan Text](#) and **Batch Scan** feature. Simply grab a piece of paper, write something on it or grab a Happy Birthday Card that you received and scan it by using the **Scan Text** feature.

# 5. Call Features

This category contains all the features that allow users to call a chosen trusted contact or an Aira agent.

## 5.1 Call An Ally

Video call a friend or family and have them see what you're seeing through the camera. You can add a list of your friends and family members as an Ally through the Envision App. The friends and family members can then receive the video call through our free companion app called Envision Ally, just as they would receive a FaceTime or WhatsApp video call. This is ideal for situations where the AI functions are not entirely helpful, like venturing into a new location or shopping at a mall.

This article contains the following:

1. [How to activate Call An Ally?](#)
2. [Do you want to add an Ally?](#)
3. [How to add an Ally as an Envisioner?](#)
4. [How to be added by an Ally?](#)

**How to use Call An Ally?**

To use Call an Ally, follow these steps:

1. Go to **Call**.
2. Go to **Call an Ally**.
3. Navigate to the Ally that you want to call and do a one-finger double tap.
4. You will hear a sound that the call is connecting. At this point the Ally receives a notification and, once he or she taps on the notification, you will be connected to the Ally.
5. Swipe forward or back with one finger to increase or decrease the volume. Swipe down twice with one finger to exit the call.

### Do you want to add an Ally?

Add someone as an Ally! This can be a friend or family member that you would want to call in case the Envision features are not sufficient to help you out. For this to work, your friend will need to [install the Envision Ally App](#).

Envision Ally App is a free application that can be installed from the App Store on iOS or Play Store on Android. Here are the links for both of them:

- [Download for iOS](#)
- [Download for Android](#)

**Note:** There is a separate Envision Ally guide that explains the [Call an Ally](#) feature in more detail. You can share it with your Ally list and consult it [here](#).

### How to add an Ally as an Envisioner?

To add an Ally as an Envisioner, follow these steps:

1. Open the **Envision App**.
2. Go to the **Glasses** tab.
3. Go to **Feature Preferences**.
4. Go to **Envision Ally**.
5. Tap on the **Add an Ally** button
6. Enter the email address of the Ally that you want to add. This email address is shown in their dashboard on the **Envision Ally App**.
7. Tap on **Send Request**. You will get a pop-up notification stating that the '*Ally is added successfully*'.

### How to be added by an Ally?

The Ally also has the possibility to share their personal link and become your Ally.

To be added by an Ally, follow these steps:

1. In the **Envision Ally App**, have your Ally go to the **Envisioners** tab.
2. Let them click on **Add an Envisioner**.
3. From there, they have the option to send an invitation link via Whatsapp, Email, or via text message or various other methods of communication.
4. Once they have selected the communication channel, they should click on the contact that they wish to add, then click **Send**.
5. You, the Envisioner, will need to click on the link that they sent. This will open the Envision App and automatically have you added as an Ally so that they can make a video call.
6. You've officially become an Ally for the Envisioner!

There is a separate Envision Ally guide that explains the **Call an Ally** feature in more detail. You can share it with your Ally list and consult it [here](#).

**Note:** This feature only works in **online mode**, therefore it is necessary to be connected to a stable network to get the most out of it. That does not mean when you are not connected to the internet you can not use the device. To find out which features do not require an internet connection, see Which features work without an Internet connection?

## 5.2 Call an Aira Agent

For Envisioners, the integration with the Aira service provides access to 24/7, human-to-human, professional visual interpreting for any task at home, at work, or when on the move. This addition of Aira to the Envision Glasses substantially strengthens our [Call An Ally](#) feature which enables customers to make video calls to chosen family members and friends.

This article contains the following:

1. [Introductory Offers](#)
2. [Introducing Aira on the Envision Glasses](#)
3. [How to activate the Call An Aira Agent feature?](#)
4. [How can I activate Privacy Mode?](#)
5. [How can I unlink my Aira Account on Envision Glasses?](#)
6. [How can I check how many minutes I have left of the 200 free minutes?](#)
7. [Which languages are supported by Aira Agents?](#)

### 5.2.1 Introductory Offers

There are two incredible introductory offers that come with partnerships that are a win-win for our customers:

1. Envision Glasses Customers get 200 free minutes for calling Aira. This is automatically activated as soon as you link your Aira account with Envision Glasses and make your first call.
2. Aira Customers can get an exclusive 10% discount on the purchase of Envision Glasses. Simply Call An Aira Agent from Envision Glasses or Aira's Customer Care Team [here](#) to find out how you can avail of this.

For more information, see the following blog post: [Envision and Aira Announce Strategic Partnership](#)

### 5.2.2 How to use the Call An Aira Agent feature?

To **Call An Aira Agent**, follow these steps:

1. Make sure your Envision Glasses are updated with the latest software 1.8.0 update. You can update your Envision Glasses by following the exact steps on the [Update Software](#) article.
2. As soon as you confirm that your Envision Glasses are on the latest update, navigate to the **Call** category and do a one-finger swipe forward to select **Call An Aira Agent**.
3. For the first time Envision Glasses will speak out *'You have not connected an Aira Account with your Envision Glasses yet.'*
4. Open on your desktop or smartphone [explorer.aira.io](http://explorer.aira.io) in a Chrome, Safari, Edge or Firefox browser and create or log in to your Aira account. If you are creating an Aira account, you will receive a 4-digit authentication code. Once logged in go to **Menu Navigation** and tap on **Connect Envision Glasses**. Scan the unique generated **QR Code** with your Envision Glasses camera to connect your account. This is a one-time step, once connected you will always be able to call an **Aira Agent** immediately in future instances.
5. After confirming your account, Envision Glasses will speak out *'Congratulations! Your Envision Glasses can now be used to Call An Aira Agent, do a one-finger double tap to start calling an agent or do a one-finger swipe down to call at a later moment.'*
6. To initiate your first call with an Aira Agent, do a one-finger double tap. Your Envision Glasses will speak out *'Connecting to an Aira Agent'*. Once connected to an Aira Agent, the glasses will speak out the agent's name. You can control the volume during the call by doing a one-finger swipe forward to increase the volume or a one-finger swipe back to decrease the volume. Repeat this gesture until you set the desired volume.



7. You can end the call at any time, by doing a one-finger swipe down. Your first call will also automatically activate your 200 free minutes to call Aira. The 200 minutes credit is applied when the QR Code is scanned.
8. For all your subsequent calls to an Aira Agent, you can use **Voice Commands**. For more information on how to activate this feature, see Voice Commands

### 5.2.3 How can I activate Privacy Mode?

To activate **Privacy Mode**, while on a call with an Aira Agent, follow these steps:

1. Navigate to the **Call** category, do a one-finger swipe forward to **Call an Aira Agent** and now do a one-finger double tap to be connected to an **Aira Agent**.
2. While you are connected to an agent, do a two-finger single tap. You will hear a confirmation message whether you are sure to enable **Privacy Mode**, you don't need to finish listening to this message, you can go to the next step.
3. Do a one-finger double tap.
4. That's it! You will now hear another message that **Privacy Mode** is activated.
5. To deactivate **Privacy Mode**, simply do a one-finger double tap again.

### 5.2.4 How can I unlink my Aira Account on Envision Glasses?

We only recommend unlinking your account if you decide to create an Aira account with a different email address:

1. Go to the **Call** category and navigate to the **Call An Aira Agent** feature, do a two-finger single tap to open the **Context Menu**.
2. You will hear the option **Unlink My Account**, do a one-finger double tap to unlock your account. A success sound will be played to confirm this.
3. After the success sound, go back to the **Call An Aira Agent** screen by doing a one-finger swipe down and link your Aira Account again.

### 5.2.5 How can I check how many minutes I have left of the 200 free minutes?

You can check how many minutes you have left if you are a Paid Explorer, which means you are paying for an Aira Plan, by downloading the Aira App on your smartphone and navigating to the **Usage** tab.

If you are a Guest Explorer, which means you have a free Aira Plan, please contact Aira's Customer Care Team [here](#).

### 5.2.6 Which languages are supported by Aira Agents?

All Aira Agents speak English and some Aira Agents speak Spanish and French.

**Note:** This feature only works in **online mode**, therefore it is necessary to be connected to a stable network to get the most out of it. That does not mean when you are not connected to the internet you can not use the device. To find out which features do not require an internet connection, see Which features work without an Internet connection?

## 6. Identify Features

This category contains all the general recognition and identification features of Envision Glasses.

### 6.1 Describe Scene

This feature describes what is seen in front of you. By using artificial intelligence, it is able to describe the scene.

#### 6.1.1 How to use the Describe Scene feature?

To have a scene described, follow these steps:

1. Go to **Identify**.
2. Go to **Describe Scene**.
3. Before doing a one-finger double tap to activate the feature, point your head in the direction that you want it to describe to you. Usually it's better to look a little more down.
4. Now do a one-finger double tap on the **Describe Scene** feature.
5. A countdown sound will be played followed up by a camera shutter. This means a snapshot has been taken and the picture is processed. Upon completion, the scene will be spoken out.
6. That's it. You have now described the scene in front of you. You can do a one-finger double tap again to describe another scene, do a one-finger single tap to repeat the described scene, or swipe down with one finger to exit.

This feature only works in online mode, therefore it is necessary to be connected to a stable network to get the most out of it. That does not mean when you are not connected to the internet you can not use the device. To find out which features do

not require an internet connection, see [Which features work without an Internet connection?](#)

### 6.1.2 Do you want to recognize all the faces taught in the Envision App?

If a person, whose face was previously taught in the Envision App, is in the scene, their name will be included in the description.

## 6.2 Detect Light

With this feature, you will be able to detect the intensity of light in your current environment. You can use this to determine whether you're in a dark room or to find out if the screen of your electronic devices are on.

### 6.2.1 How to use the Detect Light feature?

To detect the light intensity around you, follow these steps:

1. Go to **Identify**.
2. Go to **Detect Light** and do a one-finger double tap.
3. Audio cues help you determine how bright it is around you. A lower pitch or frequency of beeps means no or limited light is being detected.

### 6.2.2 Changing the preference of hearing a frequency of beeps or tone of pitch

If you'd like to change the preference of light indication, you can do so by opening the context menu. Do a two-finger single tap when you're on the **Detect Light** screen or when you're inside the feature. Now do a one-finger double tap to change to frequency of beeps or tone of pitch. Do a one-finger swipe down to confirm.

## 6.3 Recognise Cash

Recognise banknotes in multiple currencies. You can select which currency you want to recognise from a list of over 100 currencies. This is very handy when you're either paying or being paid in cash, while out and about.

### 6.3.1 How to use the Recognise Cash feature?

To recognise over 100 different banknotes, follow these steps:

1. Go to **Identify**.
2. Go to **Recognise Cash** and do a one-finger double tap. The currency that is currently selected will be spoken out.
3. Hold the banknote in front of the camera, making sure it is fully unfolded. If recognised, the value of the banknote will be read out to you.

Envision Glasses can currently recognise the list of currencies [here](#).

### 6.3.2 How to change the currency?

If you are selecting a certain currency for the first time, you will first have to download it. Make sure you are connected to a network for this. Every subsequent time you select that currency, it will be available offline.

To switch to another currency, follow these steps:

1. Inside the **Recognise Cash** feature, do a two-finger single tap to open the context menu.
2. One-finger swipe forward and back to scroll through the list of available currencies.
3. One-finger double tap on your desired currency. If this is your first time selecting it, it will be downloaded via an internet connection. If you have already downloaded it, it will be available to use offline.

## 6.4 Scan QR Code

While most QR Codes we encounter contain a link to a website, it is also possible to create your own QR codes which contain text, stick them to objects and create easy-to-read labels.

The **Scan QR Code** feature has been included in the latest software update and it is really easy to use. This is ideal for everything from organising your kitchen cabinets to labelling rooms at home or work.

Here are seven simple steps for creating your own QR codes:

1. Go to a website that allows you to generate a QR code. If you search on Google for 'QR Code Generator' you will find a few free and paid options. In this guide, we will

be using <https://goqr.me> as it's a free service and is also somewhat accessible with a screen reader.

2. Once you are on <https://goqr.me>, by default the **Text** option should be selected. If that is not the case, make sure you select the option **Text**.
3. Navigate towards the text input. When using a screen reader, you can swipe right until you hear '2. Contents' and afterwards you will be able to double-tap on the text field.
4. Type anything that you want to be represented by the QR code. In our case, we have a box of protein powder that we have been reusing and now has '*Organic Black Tea*' in it instead. So in this case, we type '*Organic Black Tea*' in the text field.
5. On this website, the QR code is changed automatically. On some websites you might need to click on '*Generate QR*' and your QR code will be ready to be used. At this point, you can already scan the QR code on the screen with your Envision Glasses and it should say '*Organic Black Tea*'.
6. Now that your QR code is created, tap on the **Download** button to save the QR Code, you can save it in JPG or PNG image format. These images can now be printed and stuck on the things you would like to recognize with them.
7. Now open the **Scan QR Code** feature by navigating to it under the **Identify** category or by simply using Voice Commands. Just look towards where the QR code is placed and it would instantly speak the text within it out to you.

## 6.5 Detect Colors

Detect colors that appear in front of the camera. The Envision Glasses will speak out what is in front of you. This way you always know whether you are matching your red T-shirt with your red shoes.

To start recognising colors, follow these steps:

1. Go to **Identify**.
2. Go to **Detect Colors** and do a one-finger double tap.
3. The colors will be spoken out.
4. Do a one-finger single tap to pause, and do it again to continue the speech.

### Are the colours spoken not correct?

Color detection is very dependent on environmental lighting. To get the best results, try to take a picture of the item in natural lighting.

## 7. Find Features

This category contains all the features that help users with scanning and finding stuff around them.

## 7.1 Find Objects

This feature allows you to see where a specific item is located in a room. By scanning your environment, it finds items that you may have lost by looking for that specific object.

To start looking for objects, follow these steps:

1. Go to **Find**.
2. Go to **Find Objects** and do a one-finger double-tap.
3. Swipe forward or back with one finger to switch between the different objects that you want to find. You will go through a list of pre-trained objects that we currently have on the glasses.
4. Look around with your Envision Glasses to look for the specific item. The glasses will announce the object they are looking for.
5. Once the item is detected by the camera, a sound will be played. This means that the object that you are looking for is located in front of you.

## 7.2 Find People

Detect if there are people around you or find a specific person. This feature works by using a video feed to scan for people. A beep plays when a person is detected and the name of the person will be spoken out if their face has been taught in the Envision App. Use this to locate people around you, find friends, family, or colleagues in a public space.

### 7.2.1 How to actively Find People?

To activate Find People, follow these steps:

1. Go to **Find**.
2. Go to **Find People** and do a one-finger double-tap.
3. Once people are detected by the camera, a sound will be played. This means that a person is in front of you. Their name will be spoken out if you have taught Envision to recognize this person.

### 7.2.2 Do you want to Teach Envision faces?

By teaching the Envision App faces of your friends and family, the app is able to recognize them. You can teach faces in the **Feature Preferences**, within the **Glasses Tab** on the **Envision App**. For more information, see Teach Envision

## 7.3 Explore

This feature scans the environment for any object or people and speaks it out. This feature can be helpful to understand what is located around you whenever you are in an unknown room. Use this to explore a new environment and get to know what's around you.

To activate Explore, follow these steps:

1. Go to **Find**.
2. Go to **Explore** and do a one-finger double-tap.
3. Look around you and the objects will be spoken out.

This feature uses a video feed to speak out about objects and people it detects. It is a combination of the [Find Objects](#) and [Find People](#) features.

## 8. Connectivity

In this chapter we walk you through how to connect your Envision Glasses to Wi-Fi networks, personal hotspots, Bluetooth and wired devices and how to charge them.

### 8.1 Connect To Wi-Fi

Most of the features of the Envision Glasses require an internet connection. We help you connect to your preferred Wi-Fi during the pairing process itself. You can also connect to the internet in the Settings of the device, or by using the Envision App.

This article explains the following:

- [Connect to the internet using the Envision Glasses Wi-Fi QR Code](#)
- [How do I create a Wi-Fi QR Code?](#)
- [Connect to the internet by using your Envision Glasses and the Envision App](#)
- [Connect to the internet by using the Envision App](#)
- [Features that do not require an internet connection](#)

#### 8.1.1 Connect to the Internet using the Envision Glasses Wi-Fi QR Code

1. Turn on the Envision Glasses and wear the device.
2. Go to **Device Settings**.
3. Now go to **Wi-Fi**.
4. Go to **Search for Wi-Fi connections**. If you are not seeing this option, it means your Wi-Fi is off and you have to first double-tap to turn on the Wi-Fi.
5. After double-tapping with one finger on **Search for Wi-Fi connections** you will hear a fetching sound. Upon completion, a list of Wi-Fi networks will be given.
6. Swipe forward with one finger, or back, to scroll through the list of Wi-Fi networks.
7. Do a one-finger double-tap on the **name of the Wi-Fi Network**.
8. In this guide, we assume you have not connected to this network before. You will end up on the screen to connect with the Envision App. Swipe forward with one finger and go to **Scan a QR Code**. You will hear a sound which means the camera is active.
9. Go to [letsenvision.com/qr](https://letsenvision.com/qr) on your phone or desktop and fill in the password of the chosen Wi-Fi network.
10. Click on generate the **Wi-Fi QR Code**.
11. While you are wearing the Envision Glasses, **look at the Wi-Fi QR Code**, or point the camera located on the front towards the generated Wi-Fi QR Code. A processing sound is played when the QR code is detected.
12. Once you are connected to the chosen Wi-Fi, you will be redirected to the start screen and you can start using the Envision Glasses features that require an internet connection.

### 8.1.2 How do I create a Wi-Fi QR Code?

1. Go to [letsenvision.com/qr](https://letsenvision.com/qr) on your phone (or a different one) or computer.
2. Fill in the **password** of your Wi-Fi network.
3. Click on **Create Wi-Fi QR**.
4. Your QR code is generated. You can scan the QR code with your Envision Glasses to pass the data onto the device and connect it to your Wi-Fi network.

### 8.1.3 Connect to the internet by using your Envision Glasses and the Envision App

1. Turn on the Envision Glasses and wear the device.
2. Go to **Device Settings**.
3. Now go to **Wi-Fi**.
4. Go to **Search for Wi-Fi connections**. If you are not seeing this option, it means your Wi-Fi is off and you have to first double-tap to turn on the Wi-Fi.
5. After double-tapping with one finger on **Search for Wi-Fi connections** you will hear a fetching sound. Upon completion, a list of Wi-Fi networks will be given.
6. Swipe forward with one finger, or back, to scroll through the list of Wi-Fi networks.
7. Do a one-finger double-tap on the **name of the Wi-Fi Network**.



8. In this guide, we assume you have not connected to this network before. You will end up on the screen to connect with the Envision App. Do a one-finger double-tap again to use the Envision App to fill in the network password.
9. You will receive a notification from the Envision App on your smartphone. Tap on the notification to open the Envision App.
10. Tap on the input field and fill in the correct Wi-Fi network password.
11. Tap on Connect. Your Envision Glasses should connect to your WiFi.

#### 8.1.4 Connect to the internet by using the Envision App

1. Open the **Envision App** on your phone.
2. Go to the **Glasses tab**.
3. Go to **Device settings**.
4. Go to **Wi-Fi**.
5. Go to **Search for Wi-Fi connections**.
6. The Wi-Fi connections around you are now being loaded. **Tap on the Wi-Fi name you want to connect with.**
7. Tap on the input field and **fill in the password** of your Wi-Fi. Make sure this password is entered correctly.
8. Tap on **Connect**.
9. You will be connected to the Wi-Fi network.

#### 8.1.5 Features that do not require an internet connection

The features on the Envision Glasses that can be used without an internet connection is **Instant Text**, **Recognise Cash**, **Detect Light**, **Detect Colors**, **Find Object**, **Find People** and **Explore**. Additionally, you can still access all trainings and guides without the need of internet.

There are some exceptions for some of the offline features:

1. **Instant Text:** To be able to instantly read in offline mode, you need to activate **Offline Mode** in the **Context Menu** of the Instant Text screen by doing a two-finger single tap. Keep in mind that the offline mode may not recognise some Latin scripts.
2. **Recognise Cash:** To be able to start recognising cash in offline mode, the preferred currency must first be downloaded in online mode.
3. **Find People:** The glasses will **Find People** by playing a beep in offline mode, but to identify the person's name in the **Find People** and **Explore** features, you need to access the faces that have been previously taught in your Envision App, and that requires an internet connection.

Envision Glasses can currently read the following languages in offline mode:

*Afrikaans, Albanian, Catalan, Chinese, Croatian, Czech, Danish, Dutch, English, Estonian, Filipino, Finnish, French, German, Hindi, Hungarian, Icelandic, Indonesian, Italian, Japanese, Korean, Latvian, Lithuanian, Malay, Marathi, Nepali, Norwegian, Polish, Portuguese, Romanian, Serbian, Slovak and Slovenian.*

For updated information, see [Languages Envision Recognises](#)

## 8.2 Connect to Hotspot

Are you outside of the house and you still want to use your Envision Glasses? Not to worry, you can share the cellular data connection of your smartphone with your glasses when you don't have access to a Wi-Fi network.

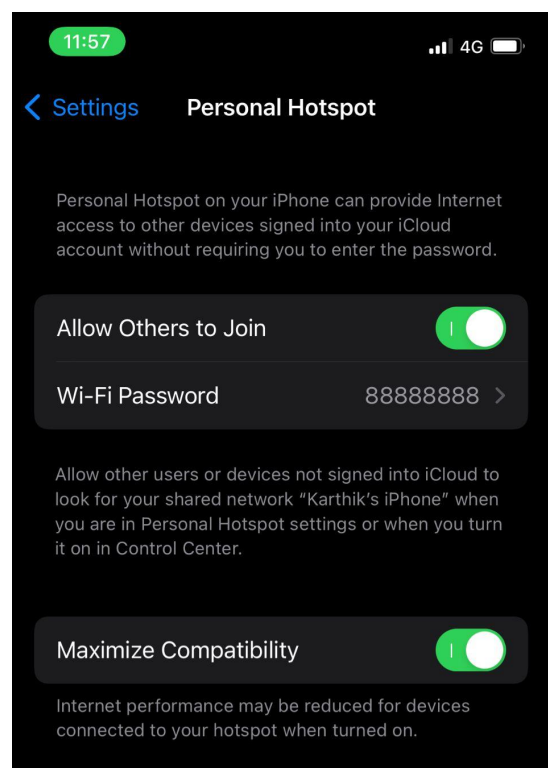
This chapter explains the following:

- [Hotspot on iOS](#)
  - [Connecting to the iPhone's Personal Hotspot for the first time](#)
  - [Connecting to iPhone's Personal Hotspot after the first time](#)
- [Hotspot on Android](#)
- [Why is my Personal Hotspot not detected by Envision Glasses?](#)

### 8.2.1 Hotspot on iOS

#### Connecting to the iPhone's Personal Hotspot for the first time after pairing

To successfully connect your Envision Glasses to your iPhone's personal hotspot for the first time, a second screen is required in addition to your iPhone on which you can generate a QR Code of your **Personal Hotspot** password. This is a one-time step, once connected you will always be able to connect to your **Personal Hotspot** without entering your password unless you change your password. This second screen can



be your laptop, desktop or another iPhone with access to the Internet. The reason for having a second screen is that on an iPhone, a hotspot is only discoverable when you are on the **Personal Hotspot** screen in the **Settings** of your iPhone. As soon as you leave the screen, the hotspot is no longer discoverable. You need to be on this screen for a connection to get established. You may leave this screen once the connection is established and the hotspot will continue to work.

To connect to the iPhone's personal hotspot for the first time, follow these steps:

1. Go to **Settings** on your iPhone and tap on **Personal Hotspot**.
2. Make sure that you have the **Allow Others to Join** option enabled. Here you can check or change your personal hotspot password and find out how your iPhone is named. If you want to change the name of your iPhone, to find out how to do this, [tap here](#).
3. Once you know your **Personal Hotspot** password, switch to your second screen, which can be your laptop, desktop or another iPhone with access to the Internet and go to this website: [letsenvision.com/qr](https://letsenvision.com/qr). Here you can enter the password of your personal hotspot network and press the **Create Wi-Fi QR** button. This will generate a QR code on the screen.
4. Switch to Envision Glasses, and navigate to **Device Settings** and then to **Wi-Fi**.
5. Go back to your iPhone and make sure that the option **Allow others to Join** is enabled.

**Note:** Please stay on this screen on your iPhone through the next steps, as your hotspot is only discoverable when you are on the **Personal Hotspot** screen in the **Settings** of your iPhone. As soon as you leave this screen, the hotspot is no longer discoverable. You need to be on this screen for a connection to get established. You may leave this screen once the connection is established and the hotspot will continue to work.

6. On Envision Glasses do a one-finger double tap on **Search for Wi-Fi Connections**.
7. Once you hear the names of Wi-Fi networks, swipe through to find the one that speaks out your iPhone's name. Do a one-finger double tap on it to connect.

**Note:** If you don't hear your iPhone's name, please disable and enable **Allow Others to Join** from your iPhone, go back to **Home** on your Envision Glasses by doing a two-finger swipe down and repeat the previous steps. When you hear the name of your iPhone please do a one-finger double tap.

8. It will speak out the option for '*Use the Envision App to connect*'. **We don't want to do this as we need to continue staying on the personal hotspot screen on the iPhone.** Do a one-finger swipe forward to the **Scan a QR Code** option to connect and do a one-finger double tap on this option.

**Note:** For iOS users, the only reliable option to connect to the personal hotspot is to **Scan a QR Code** due to iPhone limitations.

9. Now with the Envision Glasses on your face, look in the direction of the **QR Code** previously generated on your screen. A connection will be established and it will give you a successful sound.

**Note:** If your Envision Glasses do not recognise the generated QR code, make sure that your monitor screen is turned on with high brightness, that your screen curtain is turned off and that you are on the correct tab where the QR code is present.

### Connecting to iPhone's Personal Hotspot after the first time

If you have already connected to the hotspot on your iPhone with Envision Glasses once, it will remember the password of the hotspot. If you want to connect to the hotspot again, here are the steps:

1. Go to **Settings** on your iPhone and tap on **Personal Hotspot**.
2. Make sure that you have the **Allow Others to Join** option on that screen turned on.
3. Please stay on this screen on your iPhone through the next steps, as your hotspot is only discoverable when you are on the **Personal Hotspot** screen in the **Settings** of your iPhone. As soon as you leave this screen, the hotspot is no longer discoverable. You need to be on this screen for a connection to get established. You may leave this screen once the connection is established and the hotspot will continue to work.
4. Go to **Device Settings** and then **Wi-Fi** on the glasses. Search for the network name and then double tap to connect. You will not need to enter a password again.

## 8.2.2 Hotspot on Android

To turn on your hotspot on an Android phone, complete the following steps:

1. Go to **Settings**.
2. Go to **Network & Internet** (in some Android phones, you might have to go to **More**, instead). If you have a Samsung, you can skip this step and move directly to the next one.
3. Go to **Hotspot & tethering**, if you can't find it, it might be in the **More** subsection.
4. Go to **Portable Wi-Fi Hotspot**.
5. Go to **Set up Wi-Fi Hotspot**, sometimes also **Configure Mobile Hotspot**.
6. Choose your **network name** and **password**. This is the password that you will use to connect to the hotspot.
7. Follow the same steps to connect to a Wi-Fi network shown in the previous guides and connect with the **name of your hotspot**.

### 8.2.3 Why is my Personal Hotspot not detected by Envision Glasses?

When the hotspot is not detected by Envision Glasses:

1. Make sure you can use a personal hotspot with your plan: Go to iPhone's **Settings** and search for the **Personal Hotspot** or **Cellular** options. If these options are there, you can move on to the next step. If you don't see these options, contact your carrier to make sure you can use the personal hotspot with your current plan.
2. Make your personal hotspot sharable: Go to iPhone's **Settings** and search for the **Personal Hotspot** or **Cellular** options. Enable the option **Allow Others to Join**. If you can't turn on **Personal Hotspot**, check that your wireless carrier enabled it and that your wireless plan supports it.
3. Keep in mind that for the first time, this process requires a second screen in addition to your iPhone, on which you can generate a QR Code of your **Personal Hotspot** password. This second screen can be your laptop, desktop or another iPhone with access to the Internet. This is a one-time step, once connected you will always be able to connect to your **Personal Hotspot** without entering your password unless you change your password.
4. Change the auto-generated Wi-Fi Password: Once **Allow Other to Join** is enabled, right below this option you can change your personal hotspot password by tapping on the **Wi-Fi Password** button. There you can enter your preferred password.
5. Make sure you stay on the **Personal Hotspot** screen on your iPhone when searching for Wi-Fi connections on Envision Glasses: On iPhones, a hotspot is only discoverable when you are on the **Personal Hotspot** screen in the **Settings** of your iPhone. As soon as you leave the screen, the hotspot is no longer discoverable. You need to be on this screen for a connection to get established. You may leave this screen once the connection is established and the hotspot will continue to work.
6. Update Envision Glasses to the latest version. To check if you are on the **latest glasses software** version check [here](#).
7. Update Envision App to the latest version. To check if you are on the **latest iOS software** version check [here](#). To check if you are on the **latest Android software** version check [here](#).
8. Restart the [iPhone](#) that provides **Personal Hotspot** and your Envision Glasses: To turn off your Envision Glasses, press and hold the button for 3 seconds. You will hear a sound when the Envision Glasses initiate the power-off process, which completes in 20 seconds. To turn on Envision Glasses, press the power button for 6 seconds. It will take about a minute for the device to boot up; there is no audio cue during this process. For more information, see Power Button
9. If you're using an iPhone 12 model or later, turn on **Maximize Compatibility**. Then try connecting your devices again to your **Personal Hotspot**. Keep in mind that when you turn on **Maximize Compatibility**, internet performance and Wi-Fi security might be reduced for devices connected to the hotspot.

If you are still not able to connect to the hotspot, don't hesitate to contact Envision's Customer Success Team at [support@letsenvision.com](mailto:support@letsenvision.com)

## 8.3 Connect To Bluetooth Devices

The Envision Glasses have a built-in Bluetooth module. This allows the glasses to be paired with the Envision App and other Bluetooth devices such as headphones, earbuds and speakers.

### 8.3.1 Connecting to headphones or speakers

To connect to Bluetooth headphones or speakers, follow these steps:

1. Turn on the Envision Glasses and wear the device.
2. Make sure your headphones or earphones are turned on and in pairing mode.
3. From the main menu goes to **Device Settings**.
4. Now go to **Bluetooth**.
5. Do a one-finger double-tap on **Connect Devices**. You will hear a fetching sound. This means the Envision Glasses are looking for Bluetooth devices around you.
6. You will hear the first discovered device, swipe forwards or back to scroll through the list of Bluetooth devices around you.
7. Do a one-finger double-tap on the **name of your Bluetooth device**. You will hear a processing sound.
8. After the sound, you will hear the sound coming from your Bluetooth device.

### 8.3.2 Connecting to AirPods

The steps below explain how to connect to AirPods. Besides AirPods, this guide is also meant for all devices with **Apple's W2-Chip** such as AirPods Pro, Beats Powerbeats, and more:

1. Make sure that both of the AirPods are in their case.
2. Open the lid of your charging case.
3. Press and hold the button on the back of your charging case. The status light will begin to flash white, which means your AirPods are now in **Bluetooth Pairing** mode.
4. Grab your Envision Glasses and go to **Device Settings**.
5. Now go to **Bluetooth**.
6. A list of Bluetooth devices will show up. Navigate to the name of your AirPods.
7. Take the AirPods out of the case and put both of them in your ear.
8. Now do a one-finger double-tap on the name of your AirPods and wait for it to connect.
9. A success sound will be played and your AirPods are now connected with the Envision Glasses. In some cases, it might take up to 10 seconds before the sound comes from the AirPods.

## 8.4 Connect to a wired device

At the back of the body, you will find a port to connect USB-C devices to the Envision Glasses. This port is used to charge the device with the provided cable, but it can also be used to attach earphones, hearing aids, or speakers to your glasses.

### 8.4.1 Using other devices that don't support USB-C

If you have speakers or earphones that do not work with USB-C, you can also use a converter. So if your earphones have a traditional 3.5mm audio jack, try looking for a 'USB-C (male) to Audio Jack Female Converter. Make sure that the converter does not have 'DAC' built-in. Plug in the audio jack of your earphones in the female audio jack of the converter and the USB-C in the back of the Envision Glasses. That's it!

## 8.5 Charging

Envision Glasses can be charged with any USB-C cable. This can both be a USB to USB-C cable or a USB-C to USB-C cable. To charge the device, connect the USB-C cable with an adapter. While plugged in, the LED light next to the charging port pulses to indicate that the device is charging, but the device will also speak out the battery level.

Envision Glasses also support fast charging. Use the cable provided in the box with an adapter that supports fast charging. Fast charging allows the device to be charged to 50% in less than 30 minutes.

### 8.5.1 What is the battery life of my Envision Glasses?

In terms of battery life, Envision consumes most of the battery when in use due to the need to have the camera active and light detection when using all features. Roughly 4 to 5 hours of active use.

We recommend shutting down Envision Glasses if you are not going to use them for the next three hours by pressing the power button for 3 seconds. If you are going to use them in the next three hours, we recommend that you simply put them in Sleep Mode.

For more information on how to activate **Sleep Mode**, see [Power Button](#)

## 9. Language & Localisation

This chapter contains all the information related to changing the language in Envision Glasses, the supported reading languages and how to help with localisations in your native language.

## 9.1 Change Device Language

In the language settings, you can change the language of the Envision Glasses.

To change the device language, follow these steps:

1. Go to **Device Settings**.
2. Go to **Language** and do a one-finger double-tap.
3. Scroll through the list of languages by swiping forward and back with one finger.
4. Do a one-finger double-tap on your preferred language. Afterward, you will hear a processing sound and you will be redirected to the start screen.

## 9.2 Supported Reading Languages

The languages that Envision Glasses can read via Text To Speech are:

1. Albanian, Albanian (sq-AL)
2. Arabic (ar)
3. Bengali, Bangladesh (bn-BD)
4. Bengali, India (bn-IN)
5. Bosnian, Bosnia and Herzegovina (bs-BA)
6. Catalan, Spain (ca)
7. Chinese, Hong Kong (yue-HK)
8. Chinese, Singapur (zh-CN)
9. Chinese, Taiwan (zh-TW)
10. Croatian, Croatia (hr-HR)
11. Czech, Czech Republic (cs-CZ)
12. Danish, Denmark (da-DK)
13. Dutch, The Netherlands (nl-NL)
14. English, Australia (en-AU)
15. English, India (en-IN)
16. English, Nigeria (en-NG)
17. English, United Kingdom (en-GB)
18. English, United States (en-US)



19. Estonian, Estonia (et-EE)
20. Filipino, Philippines (fil-PH)
21. Finnish, Finland (fi-FI)
22. French, Canada (fr-CA)
23. French, France (fr-FR)
24. German, Germany (de-DE)
25. Greek, Greece (el-GR)
26. Gujarati, India (gu-IN)
27. Hindi, India (hi-IN)
28. Hungarian, Hungary (hu-HU)
29. Indonesian, Indonesia (id-ID)
30. Italian, Italy (it-IT)
31. Japanese, Japan (ja-JP)
32. Javanese, Indonesia (jv-ID)
33. Kannada, India (kn-IN)
34. Khmer, Cambodia (km-KH)
35. Korean, South Korea (ko-KR)
36. Malayalam, India (ml-IN)
37. Marathi, India (mr-IN)
38. Nepali, Nepal (ne-NP)
39. Norwegian, Norway (nb-NO)
40. Polish, Poland (pl-PL)
41. Portuguese, Brazil (pt-BR)
42. Portuguese, Portugal (pt-PT)
43. Romanian, Romania (ro-RO)
44. Russian, Russia (ru-RU)
45. Serbian, Serbia (sr)
46. Sinhala, Sri Lanka (si-LK)
47. Slovak, Slovakia (sk-SK)
48. Spanish, Latin America (es-US)
49. Spanish, Spain (es-ES)
50. Sundanese, Indonesia (su-ID)
51. Swahili, East African Coast (sw)
52. Swedish, Sweden (sv-SE)
53. Tamil, India (ta-IN)
54. Telugu, India (te-IN)
55. Thai, Thailand (th-TH)
56. Turkish, Turkey (tr-TR)
57. Ukrainian, Ukraine (uk-UA)
58. Urdu, Pakistan (ur-PK)
59. Vietnamese, Vietnam (vi-VN)
60. Welsh, United Kingdom (cy)

## 9.3 Localisations in your native language

Having users from different parts of the world, and speaking different languages doesn't stop us, at Envision we strive to give our end users, maybe that's you, the best accessible experience. And for this, we need help! Help us make Envision accessible for everyone in their native language.

We use the crowdsourcing platform Crowdin to translate our strings. If you want to help us you can access Envision's projects and translate the text from English to your language.

### 9.3.1 Translating and proofreading with Crowdin

To start translating in Crowdin, follow these steps:

1. Visit [this link](#), sign up and log in.
2. Tap on a project that you would like to translate: Envision App, Envision Glasses, or Envision Ally app.
3. Now tap on the language that you want to translate.
4. Tap on the '**strings.xml**' file, this will open the editor.
5. You can now start translating strings!
6. The good news is that Crowdin is accessible for screen readers and there are keyboard shortcuts that will speed up the process of translating strings.

### 9.3.2 Why is my language not on the list?

Do you want to translate it into your native language, but it's not available on Crowdin yet? No worries, just send us a message on Crowdin or contact Envision's Customer Success Team at **support@letsenvision.com** with your language request.

## 10. Device Settings

In this chapter, we explain how to add your favorite features, change the time format, volume, speed and voice in the audio settings of your glasses, as well as how to turn off the display and update to the latest software version.

### 10.1 Add Favorites

Favorites enable you to access items in a faster way. Once Favorites is enabled, it can be accessed by doing a one-finger swipe back when you are on the home screen. Here is how you can customize your Favorites:

1. Go to **Feature Preferences**.
2. Go to **Favorites** and do a one-finger double-tap.
3. If you don't have an internet connection, the screen reader will explain this feature and how to add features as favorites. In this guide, we assume you do have an internet connection which will trigger a notification.
4. Grab your phone and tap on the notification that was just sent from the Envision Glasses.
5. The Envision App will open the screen to add, delete and rearrange your Favorites.
6. Click on the **Save** button to send the changes to the Envision Glasses.

## 10.2 Change Time Format

This setting allows you to change the time format from 12-hour to 24-hour time notation.

To change your time format, follow these steps:

1. Go to **Device Settings**.
2. Go to **Time Format** and do a one-finger double-tap.
3. The screen reader will speak out whether you have the 12-hour or 24-hour time notation. Do a one-finger double tap to change the current hour time notation.
4. Swipe down with one finger to go back and confirm your selection.

## 10.3 Change Volume, Speed and Voice in Audio Settings

The audio settings allow you to change the volume, speed, and voice of the screen reader. In the instructions below we assume that you are wearing the Envision Glasses, that the device is on, and that you are on the main menu.

### Change Volume

To change the volume, follow these steps:

1. Go to **Device Settings**.
2. Go to **Audio**.
3. Go to **Change volume** and do a one-finger double-tap. You are now inside the settings to change the volume.
4. Do a one-finger swipe forward to increase the volume, and a one-finger swipe back to decrease the volume.
5. Swipe down with one finger to go back and confirm your choice.

## Change Speed

To change the speed, follow these steps:

1. Go to **Device Settings**.
2. Go to **Audio**.
3. Go to **Change speed** and do a one-finger double-tap. You are now inside the settings to change the speed.
4. Do a one-finger swipe forward to increase the speed, or a one-finger swipe back to decrease the speed.
5. Swipe down with one finger to go back and confirm your choice.

## Change Voice

To change the voice, follow these steps:

1. Go to **Device Settings**.
2. Go to **Audio**.
3. Go to **Change voice** and do a one-finger double-tap. You are now inside the settings to change the voice.
4. Scroll through the list of languages by swiping forward and back with one finger.
5. Do a one-finger double-tap on the voice you want to select.
6. Do a one-finger double-tap on your preferred voice. Afterward, you will hear a success sound and you will be redirected to the Change voice screen.

## 10.4 Turn Off Display

The Envision Glasses have a small screen at the front where images are projected, which can be used as a visual interface. If you have some rest vision, this screen should still be visible to you. However, if you find the screen to be distracting or do not want to use it, there is a possibility of turning the screen off.

To turn off your display, follow these steps:

1. Go to **Device Settings**.
2. Go to **Screen** and do a one-finger double tap.
3. The screen reader will speak out whether the screen is on or off. Do a one-finger double tap to enable or disable the screen.
4. Swipe down with one finger to go back and confirm your selection.

## 10.5 Update Software

Envision Glasses constantly receive software updates through which we add new features, improvements, and bug fixes. You will receive a notification on your phone every time a new update is available and you can check the latest versions and what's in them here: [Envision Glasses Updates](#)

### How to update Envision Glasses to the latest version?

If an update is available to install the latest version, follow these steps:

1. Double-tap with one finger on the **Home** screen and make sure you are connected to a Wi-Fi network. A good tip to check the stability of your network is to go to the **Identify** tab and select **Describe Scene**. If you are able to process the image, then the glasses are ready for the next step.
2. With the Envision Glasses powered on, navigate to **Device Settings** in the category menu.
3. Go to **Software** and do a one-finger double tap.
4. Go to **Check Update** and do a one-finger double tap. A processing sound will play while the device checks for available updates.
5. If an update is available, do a one-finger double-tap on **New Update** to install the latest version. A processing sound will play and you will be redirected to the Home screen once the download is finished. To verify that you are on the latest version, do a two-finger single-tap in **Home** to know what software version the glasses are on.

### Are you having trouble finding the latest update?

Try restarting your Envision Glasses: Press and hold the power button for 3 seconds, wait 15 seconds and turn it on again by pressing and holding it for 6 seconds. After the Envision Glasses are turned on again, try to look for the **New Update**.

For more information on turning your Envision Glasses on and off, see [Power Button](#).

## 11. Purchasing Envision Glasses

This chapter contains information on how to schedule a free, personalized virtual demonstration of the glasses, how to order and what payment methods are accepted, our list of authorized distributors worldwide, information on funding support, and warranty and return policies.

## 11.1 Request A Demo

To ensure we support you in the best possible way, we recommend and encourage all our users to schedule a free, personalized virtual demonstration of the glasses to get an in-depth understanding of the full capabilities of the product.

You can choose the timetable that suits your availability here: [Schedule Your Envision Glasses Demo](#)

During our meeting, we will do our best to provide an overview of the glasses, walk through each feature together, and discuss your specific visual impairment and how Envision could suit your specific needs. There will also be ample time during this demo call for you to ask your questions and doubts directly to members of Envision Team.

## 11.2 Order Envision Glasses

You can order your Envision Glasses in your local currency here: [Access Envision Webshop](#)

Your Envision Glasses will be shipped to your preferred location and delivered to your door. The estimated shipping time for Envision Glasses is two weeks.

For questions about whether we can ship to your region, please contact us at **[support@letsenvision.com](mailto:support@letsenvision.com)**

## 11.3 Payment Plans & Methods

The accepted payment methods at the time of purchase are as follows:

- Visa
- Mastercard
- Maestro
- American Express
- Shop Pay
- Apple Pay
- Google Pay

- Bancontact
- iDeal

If you would like to purchase using a payment method that is not listed, please contact us at **support@letsenvision.com** and we will do our best to support your request.

## 11.4 Accessories

We have a range of accessories available for you to customize your Envision Glasses, to make them more comfortable and adapt them to your needs. We currently have different frames available, which can help you if you have a prescription, or if you need to wear tinted lenses, or simply if you prefer to wear a different design. You can order any of these accessories on our Envision Webshop [here](#).

For more information on all available frames, see [Frames](#)

## 11.5 Authorized Distributors

We strive to make Envision Glasses accessible to anyone in the world and therefore we work together with [distributors](#) in multiple countries. Our worldwide network of distributors is delivering innovative technology for an independent life.

They offer the possibility to get a hands-on demonstration of Envision Glasses and assist with applying for local funding support.

### Who are Envision Distributors and where are they located?

You can consult the complete list here [Envision Worldwide Distributors](#)

If you are located in one of these countries and wish to purchase Envision Glasses, to ensure we support you in the best possible way: We recommend and encourage all our users to schedule a free, personalized virtual demonstration of the glasses to get an in-depth understanding of the full capabilities of the product.

You can choose the timetable that suits your availability here: [Schedule Your Envision Glasses Demo](#)

## 11.6 Funding Support

Envision Glasses are considered assistive devices and hence qualify for different types of local funding, subsidy, or reimbursement options. This funding could be either from your insurance company, local government, veterans association, or a non-government organization. Since these options depend on a lot of variables – like your level of impairment, region of residence, etc. – it's best to consult your local experts about it.

If you would be interested in learning more about your local funding options, please send us an email at [support@letsenvision.com](mailto:support@letsenvision.com). We will connect you with our local distributor who will be able to provide you with the appropriate information.

## 11.7 Warranty

The hardware warranty of the glasses is 1 year. Envision will always first attempt to repair or debug the device remotely via video call, and if repair or debugging is not possible, the Envision Glasses can be sent to our headquarters and, depending on the warranty condition, a replacement will be sent. Note that this does not cover damages caused by the user.

Regarding our Post-Warranty period, if it is not possible to fix the Envision Glasses remotely, you can send us the unit back to Envision and we will analyze it to assess the costs of repair. If a repair is not possible, we will see if a new unit can be provided at a discounted price.

## 11.8 Return & Refund

Envision Glasses are used by users with mild visual impairments to users who are completely blind. They have been designed to be used easily without relying on any visual interaction. That said, there could be a slight learning curve depending on the type and severity of the visual impairment. Therefore, we encourage users to make use of the 30-day refund policy on purchases made from Envision, to test the glasses for themselves and see if it is the right tool for them.

If you find the glasses to be not the right fit for your needs, you can return them to us within 30-days, by sending us an email about them to [support@letsenvision.com](mailto:support@letsenvision.com).

Kindly note that the return policy may vary if the purchase is made through a distributor. For more information, see [Return and Refund Policy](#)



## 12. Hardware & Specifications

This chapter contains general information about how to care for your Envision Glasses, the three audio output channels, the form and design of the hardware and the technical specifications.

### 12.1 Taking Care Of Envision Glasses

In this article, you will find information on how to ensure your Envision Glasses run smoothly on a day-to-day basis.

#### Charging

1. **Battery Life:** Envision Glasses consume most of the battery when in use due to the need to have the camera active and light detection when using all features. Roughly 4 to 5 hours of continuous use. We recommend shutting down Envision Glasses if you are not going to use them for the next three hours by pressing the power button for 3 seconds. If you are going to use them in the next three hours, we recommend that you simply put them in Sleep Mode.
2. **Fast Charging:** The glasses support fast charging, which can be activated using a fast charging adapter. This will allow the device to be charged up to 50% in 30 minutes.
3. **Turn off Envision Glasses while it's charging:** Charging Envision Glasses will automatically turn on the device, even if it was powered off before plugging in. To power down while charging, press the power button for 3 seconds. You'll know it's still charging if the LED light pulsates.
4. **Powering Envision Glasses after a long period of disuse:** If you haven't charged Envision Glasses for a couple of days/weeks, it may take longer to charge them. In this state, it's normal that Envision Glasses won't turn on when you press the power button. But don't worry. Grab a cup of coffee and return in a bit, and Envision Glasses should turn on normally.

**Note:** Keep in mind that your Envision Glasses will automatically turn on when you unfold them and when you connect them to the power cable.

#### Protecting

Your Envision Glasses are shipped with a protective case. We recommend that you always store your glasses in this hard case to ensure that they are accident-free.

## Cleaning

Envision Glasses are water resistant up to 1 meter, but not waterproof. The device has a waterproof rating of IPX3 according to IEC 60529. This means they are classified as dust-tight and protected against water projected from a nozzle. Water resistance may be compromised due to normal wear and tear or damage to the device. While this means that the glasses can be cleaned with wet wipes, avoid submerging them in any way. Instead, use a disinfectant wipe or a damp non-abrasive cloth with mild soap, isopropyl alcohol wipes or any other cleaning wipe safe for human skin to gently sterilize the surfaces of the device. Then towel or air dry. Ideally, do not completely submerge Envision Glasses.

**Note:** If debris becomes lodged in the USB-C port, use a soft cloth and cotton swab to gently clean it out.

By wiping your Envision Glasses you can help protect it from stains and wear. You can also disinfect your device using household disinfectant wipes.

**Important:** Avoid getting moisture or soap in openings, like the USB-C port. Don't use bleach or bleach-based disinfectant wipes.

### Steps to follow when cleaning:

1. Turn off and unplug your device.
2. Remove dust and dirt from the exterior using a clean, soft cloth.
3. Apply a 0.5% detergent-water solution (e.g., using natural detergent or mild dishwashing soap) or a 70-80% IPA (isopropyl alcohol) solution to a clean, soft cloth and wipe down all surfaces. If using a detergent-water solution, distilled water is recommended.

Note: Don't use disinfectant wipes that include bleach.

4. Dry all surfaces using a clean, soft cloth.

### To Extend the life of the Envision Glasses

1. Avoid dropping your device.
2. Avoid getting moisture or soap into openings.
3. Avoid harsh cleaners and rough scrubbing. When disinfecting the screen, avoid excessive wiping.
4. Avoid spraying cleaners or compressed air at your device.
5. Avoid contact with direct flames or highly heated surfaces.

## 12.2 Audio Outputs

To hear everything that the glasses speak out to you, the Envision Glasses count with three audio output channels:

1. Built-In Speaker
2. Bluetooth
3. Wired Connection: USB-C Converter

## 12.3 Technical Specifications

The technical specifications of the Envision Glasses and operating parameters are as follows:

<b>SoC</b>	Qualcomm Snapdragon XR1
<b>OS</b>	Android Open Source Project 8.1 (Oreo)
<b>Memory / Storage</b>	3GB LPDDR4 32GB eMMC Flash
<b>Wi-Fi</b>	IEEE 802.11a/g/b/n/ac, dual-band
<b>Bluetooth</b>	Bluetooth 5.0
<b>Camera</b>	8 Megapixel color sensor 83° diagonal field of view f/2.4 aperture Fixed focus, best focus at 0.6m Up to 1080p30 video
<b>Display</b>	640 pixel x 360 pixel RGB
<b>Audio out</b>	Mono Speaker USB audio Bluetooth (HFP supported)
<b>Microphones</b>	3 near field beam-forming microphones
<b>Touch</b>	Multi-touch gesture touchpad
<b>Charging / Data</b>	USB PD 2.0 compliant (fast charge up to 1.5 A @ 5 V) USB 2.0 data transfer

	USB-C compliant connector
<b>LED</b>	Privacy (camera) green LED, power (rear) white LED
<b>Battery</b>	800 mA · h (2880 C)
<b>Inertial Sensors</b>	3-axis Accelerometer 3-axis Gyroscope 3-axis Magnetometer
<b>Materials</b>	Resin nylon (pod)
<b>Ruggedization</b>	IP53 (Resistant to water spray and limited dust ingress)
<b>Operating temperature</b>	0° C to 35° C (32° F to 95° F)
<b>Storage temperature</b>	-20° C to 45° C (-4° F to 113° F)
<b>Relative humidity</b>	5% to 95% non condensing
<b>Weight without frame</b>	46 g
<b>Dimensions without frame</b>	212 mm x 57 mm x 29 mm (unfolded) 182 mm x 55 mm x 29 mm (folded)

## 13. Glasses Frequently Asked Questions

### 13.1 Can my Envision Glasses automatically switch between previously taught internet networks?

Envision Glasses will always remember all passwords and, in fact, will automatically switch to any secure Wi-Fi network you have previously taught it, as long as this network is in range.

If you have already connected Envision Glasses to your personal hotspot, you will not need to re-enter your password. When you are away from home, your glasses will automatically switch to it.

Should it be the case that Envision Glasses are not automatically detecting your personal hotspot, please go to **Device Settings** on your glasses and select your **Personal Hotspot** name by doing a one-finger double tap.

For more information on this topic, see [Connect To Hotspot](#)

## 13.2 Which features of Envision Glasses need an internet connection?

The following features currently require an internet connection to function:

1. [Scan Text](#)
2. [Batch Scan](#)
3. [Call An Ally](#)
4. [Call An Aira Agent](#)
5. [Describe Scene](#)

## 13.3 Can I use the Envision Glasses without my smartphone?

The Envision Glasses are designed to be used as a standalone device. That said, you do need a smartphone to pair and set up your Envision Glasses. Once you pair your Envision App with your Envision Glasses, you can use them without needing to have your phone around.

There are other configurations and settings that you need to perform on the Envision App on your phone, such as [Adding An Ally](#), [Teach Envision](#) and [Adding your Favourites](#).

## 13.4 Which features work without an Internet connection?

The following features do not require an internet connection:

1. [Instant Text](#): To be able to instantly read in offline mode, you need to activate Offline Mode in the Context Menu of the Instant Text screen by doing a two-finger single tap. Keep in mind that the offline mode may not recognise some Latin scripts.
2. [Recognize Cash](#): To be able to Recognise Cash in offline mode, the preferred currency must first be downloaded while connected to the internet.

3. [Detect Light](#)
4. [Detect Colors](#)
5. [Find Object](#)
6. [Find People](#): The glasses will Find People by playing a beep in offline mode, but to identify the person's name in the Find People and Explore features, you need to access the faces that have been previously taught in your Envision App, and that requires an internet connection.
7. [Explore](#)

## 13.5 How will I know when there is a new Envision Glasses software update?

Envision Glasses constantly receive software updates through which we add new features, improvements, and bug fixes. You will receive a notification on your phone every time a new update is available and you can check the latest versions and what's in them here: [Envision Glasses Updates](#)

For more information, see [Update your Envision Glasses](#)

## 13.6 How can I connect my Envision Glasses to an open network?

Connecting to an Open Network, a Wi-Fi network without a password is tricky on the glasses because most open networks throw up a webpage upon connecting, think of Wi-Fi at the Airport or Cafes. Since the glasses don't have a screen reader or a keyboard for input, navigating these web pages become almost impossible. That said, there is a way to connect to an Open Network through special permission, for instance at your office or workplace.

For the first setup, Envision Glasses **must** use a protected network. a Wi-Fi network with a password, such as a personal hotspot or home Internet. For more information, see [Pairing your Envision Glasses](#)

After connecting your Envision Glasses to a protected network, you will need to request your IT or Accommodations Department to manually whitelist your Envision Glasses device. When they do that, you can connect to the Open Network, without running into the webpage for authentication.

For this, they might request you for the MAC Address of the Envision Glasses. To find the **MAC Address**, follow these steps:

1. Go to the **Help** tab on Envision Glasses
2. Do a one-finger swipe forward until you hear **About**, and do a one-finger double tap to select this option.

3. Navigate to the option **MAC Address**, this will speak out a 12-digit unique number.

If you have any issues or if your IT Department needs more information, please reach out to us at [support@letsenvision.com](mailto:support@letsenvision.com)

## 13.7 Which objects can Envision Glasses currently recognise?

We have created a list of all the objects that can be found to date, allowing you to be fully aware and in control of what you can find in the Find Objects and Explore features. Rest assured that they will continue to be expanded in the future.

Find Objects has the following items: *Bench, bicycle, bottle, car, cat, chair, dining table, dog, keyboard, laptop, motorbike, sofa, toilet, traffic light, and train.*

Explore has the following items: *Person, bicycle, car, motorbike, airplane, bus, train, truck, boat, traffic light, fire hydrant, stop, sign, parking meter, bench, bird, cat, dog, horse, sheep, cow, elephant, bear, zebra, giraffe, backpack, umbrella, handbag, tie, suitcase, frisbee, skis, snowboard, sports ball, kite, baseball bat, baseball glove, skateboard, surfboard, tennis racket, bottle, wine glass, cup, fork, knife, spoon, bowl, banana, apple, sandwich, orange, broccoli, carrot, hot dog, pizza, doughnut, cake, chair, sofa, potted plant, bed, dining table, toilet, TV monitor, laptop, mouse, remote, keyboard, cell phone, microwave, oven, toaster, sink, refrigerator, book, clock, vase, scissors, teddy bear, hair drier, and toothbrush.*

## 13.8 How can I pair Envision Glasses to a new smartphone?

If you want to pair your glasses with a new smartphone, you need to reset your Envision Glasses.

To reset your glasses, follow these steps:

1. Go to the **Help** category on Envision Glasses
2. Do a one-finger swipe forward until you hear **About**, and do a one-finger double tap to select this option.
3. Navigate to the option **Reset Device**, do a one-finger double tap to return the Envision Glasses to factory settings.
4. Your Envision Glasses are ready to be paired with the Envision App on your new smartphone. For more information, see Pairing your Envision Glasses

## 13.9 Where can I find the serial number of my Envision Glasses?

Each Envision Glasses have a unique 16-digit alpha-numeric serial number.

To find the serial number of your glasses, follow these steps:

1. Go to the **Help** tab on Envision Glasses
2. Do a one-finger swipe forward until you hear **About**, and do a one-finger double tap to select this option.
3. Navigate to the option **Serial Number**, this will speak out a 16-digit alpha-numeric serial number.
4. This number can also be found on the back of the Envision Body, on the inside, just above the power button.

Here's an image showing where the serial number could be found:



## 13.10 How do I create a Wi-Fi QR code?

To create a Wi-Fi QR Code, follow these steps:

1. Go to [letsenvision.com/qr](https://letsenvision.com/qr) on your smartphone, desktop or laptop.
2. Fill in the **password** of your Wi-Fi network.
3. Tap on **Generate**.
4. Your QR code is generated. You can scan the QR code with your Envision Glasses to pass the data onto the device and connect with your Wi-Fi network.



For more information, see [Connect To Wi-Fi](#) or [Connect To Hotspot](#)

## 14. Glossary

This glossary contains the definitions of terms that are used throughout this guide.

**Artificial Intelligence:** Artificial Intelligence (AI) is a broad term used to describe intelligence by machines. Envision mainly uses its subcategory, Computer Vision.

**Body:** The body is the main part of the Envision Glasses and houses the camera, internals, and speakers. The body is worn as the right arm of the Envision Glasses.

**Computer Vision:** A subcategory of Artificial Intelligence that deals with how machines can gain an understanding from digital images or videos. At Envision, we use computer vision to turn text and images into speech. This allows us to describe images to you, without the need of another person.

**Envision Ally:** An Ally is a person with the Envision Ally app that you (the Envisioner) can add as a contact for the call option on the Envision Glasses. The ally, who could be a friend or family member, downloads the Envision Ally app on their phone and accepts your invitation. Afterwards, you will be able to call the Ally, who will see what you are seeing through the camera of the Envision Glasses.

**Envisioner:** The term Envisioner refers to the user of the Envision Glasses. Allies are able to receive calls from Envisioners that they accepted in the Envision Ally app.

**Envision Glasses:** The Google Glass 2 smart glasses combined with Envision's AI-powered software.

**Gestures Training:** This is the training that is given when you pair your Envision Glasses with the Envision app for the first time. In this Gesture Training you will be guided through all the gestures on the device. Additionally, this 'Gesture Training' can be accessed from the 'Help' category at any time.

**Screen reader:** The screen reader refers to the system that speaks out the interactive elements in a screen. The Envision Glasses have a built-in screen reader.

## 15. Contact Us

At Envision, we strive to provide our end users with the best accessible experience, which is why we continue to evolve and collect continuous feedback to prioritise our roadmap and fulfill your wish list.

To share your feedback with **Envision Team**, follow these steps:

1. Open the **Envision App** and navigate to the **Settings** tab
2. Tap on **Give Feedback**, a comment box will appear in which you can share your thoughts with us in detail. Tap on Send once you want to submit it.

We currently offer online assistance via email at [support@letsenvision.com](mailto:support@letsenvision.com), and by private messaging on Twitter and Facebook. Envision's Customer Success Team Specialists are real, friendly human beings. We love answering questions, solving problems and helping you get the most out of Envision products.

Please do not hesitate to reach out to us at any time, we are always ready to respond to all your concerns during business hours: **Monday through Friday 10:00-17:00 Central European Time.**

	Envision Technologies BV Wilhelmina van Pruisenweg 35 2595 AN Den Haag Netherlands
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