Envision Glasses
Envisioner’s Guide

Beginner’s guide for Envision Glasses users (Envisioners). Learn more about the Envision Glasses; what’s inside the box, how to get started and how to use the gestures of the Envision Glasses.
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1. Congratulations, you own a pair of Envision Glasses!

Congratulations and welcome to Envision! We really hope you will enjoy the Envision Glasses, and that you will make Envision an integral part of your daily life.

The Envision Glasses are AI-powered smart glasses that help visually impaired and blind people become more independent by turning text, images and more into speech.

This document is a detailed manual that will help you use the Envision Glasses on a daily basis. Its goal is to get you started exploring as soon as possible. In this document, you will learn everything you need to know to take full advantage of the device.

If for any reason, your Envision Glasses are not working as expected, we have also included a list of troubleshooting steps in this guide. However, the Envision customer care team is always happy to assist you with any issue.

Envision partnered with Google Glass Enterprise Edition 2 to provide you with the best experience of Envision AI on a pair of smartglasses. In addition to being a robust and comprehensive software platform, the Google Glass has a sleek and lightweight design which makes it easy to wear during the day. We were able to design fluid and intuitive controls with a combination of tap and swipe gestures.

The future of wearable cameras that we have all been dreaming of is finally here.
Top view of a person holding the Envision Glasses.
2. What’s in the box?

Open the box and start unpacking! The box should include the following items:

- Envision Glasses Body
- Envision Glasses Frame
- Envision Glasses Power Cable
- Envision Lifetime Subscription
- Let’s Get Started Booklet

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, that consists of the camera and the display. The body is located at the top of the box once you open the lid.

2.2 Envision Glasses Frame

The Envision Glasses frame needs to be attached to the body through the hinge. This will allow you to wear the Envision Glasses. The lightweight titanium frame is shipped separately in the cardboard box. The packaging is wrapped in plastic and is smaller than the main Envision Glasses box with the body and the charging cable.

![Envision Glasses Titanium Frame](image)

If you have also ordered the additional black frames by Smith Optics, they will be shipped in a separate box.
2.3 Envision Glasses Power Cable
To charge your Envision Glasses, we have added a power cable. This is a USB to USB-C cable. You can plug the cable in any USB 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! The power cable can be found underneath the Envision Glasses body in a small white box.

2.4 Envision Lifetime Subscription
Every pair of Envision Glasses comes with a lifetime subscription of the Envision AI app for your smartphone. Although the subscription is not present in the box in a physical way, once you pair the Envision Glasses with your account, the lifetime subscription will be automatically added to your account.

Note: Only the first account that you pair with your Envision Glasses will include the lifetime subscription.

What to do if I already have a subscription?
If you already have a monthly or annual subscription of the Envision AI app, you will have to cancel your subscription manually through the PlayStore or AppStore after the lifetime subscription is added to your account. If you already had a lifetime subscription, then there is nothing you have to do.
3. Getting started

This chapter is a quick guide to get you started with the Envision Glasses. It consists of How-Tos on installing the Envision app, attaching the frame, charging your device and starting the onboarding process with the Envision Glasses.

3.1 Install the Envision app on your phone

Let’s start with installing the Envision app. If you have already installed the Envision app, you can skip this step and continue to 3.2.

Below you will find the instructions on how to install the Envision app for iOS and Android phones. You can do this by using the QR code below or by finding the Envision app in the App Store or Google Play Store.
Using a QR code
The easiest way to find the Envision app is by scanning the QR code located above, which you can do by following these instructions:
Step 1: Open the camera app on your smartphone.
Step 2: Point the camera to the QR code located on the next page.
Step 3: It will recognise the QR code and a notification will appear on your phone.
Step 4: Tap on the notification and you will be brought to the Envision app on the App Store if you use iOS or the Play Store if you use an Android phone.

Note: On some Android phones you might need to enable to Scan QR Codes with the camera app or use a separate QR Code Scanner app.

Finding the Envision App
For iPhones
Read below to find out how to install the Envision app on iOS. This can be done manually (option 1) or by using Siri (option 2).

Manually: Option 1
Step 1: Navigate to the App Store icon on your phone.
Step 2: Double-tap on App Store.
Step 3: Double-tap on the search tab, located on the bottom right corner of the screen.
Step 4: Type Envision AI into the search box and tap the enter key.

Using Siri: Option 2
Step 1: Hold down the home or side button on your device to activate Siri. (Note: If you have an iPhone 8 or older, Siri will be activated with the home button. If you have an iPhone X (10), Siri will be activated with the side button.)
Step 2: Clearly say Search for Envision AI on the App Store. Siri recognises Envision AI as “Envision Aye Eye”.
Step 3: Allow it to open the App Store.

After you search for Envision manually or with Siri, you will be presented with a list of apps that match (or come close to matching) what you searched for. Envision AI will be the first option to choose from. Once you are on this search results page, complete the following steps:
Step 1: Swipe through the results and look for Envision AI from Envision Technologies B.V.
Step 2: Click the ‘Free’ button and authenticate your purchase.
Step 3: Click the ‘Download’ button if necessary.

You will then have to wait for a moment while the application downloads and installs. To open the application, you may click on the open button, navigate to the app on your home screen or use Siri to open the app for you.

**For Android phones**
Read below to find out how to install the Envision app on Android phones. This can be done manually (option 1) or by using Google Assistant (option 2).

**Manually: Option 1**
Step 1: Navigate to the PlayStore icon on your phone.
Step 2: Double-tap on PlayStore.
Step 3: Double-tap on the search tab, located on the top of your screen
Step 4: Type Envision AI into the search box and tap enter.
Using Google Assistant: Option 2

Step 1: Activate Google Assistant on your phone using the assigned shortcut.

Step 2: Clearly say Search for Envision AI on the PlayStore. Your phone recognises Envision AI as “Envision Aye Eye”.

Step 3: Allow it to open the Play Store.

After you search for Envision manually or with Google Assistant, you will be presented with a list of apps that match (or come close to matching) what you searched for. Envision AI will be the first option to choose from. Once you are on this search results page, complete the following steps:

Step 1: Swipe through the results and look for Envision AI from Envision Technologies B.V.

Step 2: Click the ‘Install’ button and authenticate your purchase (the app is free).

Step 3: Click the ‘Download’ button if necessary.

3.2 Login to the 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. You can sign up by using your email or the other methods. As stated in chapter 2.4, the first account that you pair your Envision Glasses with will have the lifetime subscription added to it.

Once you are logged in, you can start the pairing process with the Envision Glasses by navigating to the Glasses tab and tapping on the **Start pairing process** button. From this point on, you can follow the instructions via the app or continue reading.
3.3 Attach the Envision Glasses Frame

Get your Envision Glasses body out of the box (if you haven’t already done so). After that, open the other smaller box where you will find the titanium frame. Attach the frame to the body by following the instructions below.

These instructions can 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. To detach the right earpiece of the Smith Optics frame, you can follow the instructions in the next page on how to detach the frame from the body, keeping in mind that the right earpiece of the Smith Optics frame serves as the Envision Glasses body, in that case.

**Attaching the frame**
Step 1: Take the frame and make sure it is in an unfolded position.
Step 2: Make sure that the body is also in an unfolded position. That means that the front of the body, where the camera and display are located, is folded out.

Step 3: With your left hand, take the frame and, with your right hand, take the body. While holding the body with your right hand, make sure your thumb is on the front part of the body and your index finger below, to prevent the body from folding in.

Step 4: Locate the metallic hinge button with your thumb on the top of the body.

Step 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.

Step 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.

Step 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.

Step 8: You will hear a soft metallic click when the frame is attached to the body.

Step 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.

Detaching the frame

Step 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.

Step 2: Hold the frame with your left hand and the body with the right hand.

Step 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.
Step 4: There is a button on the body around the area where your thumb and index are located. Press this button with your thumb.

Step 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.

Step 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!

3.4 Turn 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 in 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. You will know the Envision Glasses are on when they start speaking out the start screen, starting to ‘Go to EnvisionGlasses.com’.

If the Envision Glasses are not turning on, try charging them with the 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.

3.5 Pair Envision Glasses with the app

Your Envision Glasses are powered on and it is speaking 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 app, complete the following steps:

Step 1: Open the Envision app.
Step 2: Navigate to the Glasses tab.
Step 3: Click on Start Pairing, a pop-up will appear.
Step 4: Click on Start Pairing Process.
Step 5: Complete the steps shown on the app, this includes pairing the app and connecting to a Wi-Fi network.
Step 6: At the last step the device is paired with the app and connected to Wi-Fi.
Step 7: Click on Finish setup.
Step 8: Switch to your Envision Glasses, the introductory tutorial will start for you.
3.6 Welcome to the Envision Glasses!

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

This chapter shows the possible ways to interact with the Envision Glasses. We first start with the physical button, followed up by the menu overview and gestures.

4.1 Buttons

There is only one physical button on the Envision Glasses: the power button.

Power Button

The power button is located in the back of the glasses, near the charging port, on the inside surface. You can feel it slightly protruding out of the surface and it has a different texture. Do not confuse it with the circular Envision Logo, which also protrudes out, but is on the outside. The power button allows you to power the Envision Glasses on and off.
To power on your Envision Glasses, hold the button for 6 seconds. It takes about a minute to turn on the Envision Glasses. A power-on sound will be played, after which the glasses are ready for use.

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.

You can also use the power button to put your device to sleep. Simply tap the power button once and your device will go to sleep.

The power button is the only physical button on the Google Glass. Everything else is done by using the touchpad on the side.

4.2 Overview
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.

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. In chapter 4.3 you will read more about these gestures.

The interfaces of the glasses are designed essentially in four different levels, with each level consisting of a menu. Let’s go through them:
First level: Main menu
After completing the introductory tutorial on the Envision Glasses, you will end up on the home screen. This is also the start of the main menu. From the main menu, you can scroll through the entire menu by swiping forward and back. On this level, you will find the following screens: home, read, identify, find, call, device settings, feature preferences and help.

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 settings screen, you will find options such as audio, wifi, Bluetooth, language, screen and more.
Third level: Active
The third level, in most cases, is where a certain feature is active and ready to perform. This is activated when you double-tap on any feature from the feature menu. If you selected ‘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. In all other levels, the camera is off.

Fourth level: Options
The fourth, and final level, is the preferences level. This will allow you to choose any additional option that exists for a feature and is activated by doing a two-finger tap on that particular feature. One example is in the ‘Instant Text’ feature: by doing a two-finger tap, it will show you the preferences menu to enable or disable offline text recognition.

That’s a brief overview of how the interface is designed. Let’s now go through the gestures to navigate through the screens.

4.3 Gestures
The Envision Glasses are mainly 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. At the introductory tutorial of the Envision Glasses, 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 Playground to practice the gestures.
There are two kinds of gestures that can be performed on the glasses: swipes and taps. 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 three kinds of swipes:

**Swipe forward**
A 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.

**Swipe back**
A 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.
**Swipe down**
A swipe down is done by starting at the top edge of the touchpad and swiping gently downward 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 downward towards the ground, with two fingers. This gesture allows you to go back to the start screen from anywhere inside the Envision Glasses operating system. When doing a two-finger swipe down on the start screen, your device will be set to sleep mode.

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

**Single-tap**
A 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 screenreader. Doing a single tap on any menu item will also speak out that screen again.

**Double-tap**
A 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 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.
Tap-and-hold

The 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 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 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.
5. Staying connected

This chapter explains how to stay connected with your Envision Glasses via Bluetooth, how to connect them to a Wi-Fi network, and how to use the USB-C port at the back of the Google Glass.

5.1 Network

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.

Connect to the internet using the Envision Glasses (Wi-Fi QR Code)

Step 1: Turn on the Envision Glasses and wear the device.
Step 2: Go to Device Settings.
Step 3: Now go to Wi-Fi.
Step 4: Go to Connect Wi-Fi. 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.
Step 5: After double-tapping on Connect Wi-Fi you will hear a fetching sound. Upon completion, a list of Wi-Fi networks will be given.
Step 6: Swipe forward, or back, to scroll through the list of Wi-Fi networks.
Step 7: Double-tap on the name of the Wi-Fi Network.
Step 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. Scroll forwards and go to Scan a QR Code. You will hear a sound which means the camera is active.
Step 9: Go to envisionglasses.com/qr on your phone or desktop and fill in the password of the chosen Wi-Fi network.
Step 10: Generate the Wi-Fi QR Code.
Step 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.

Step 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.

**How do I create a Wi-Fi QR code?**

Step 1: Go to envisionglasses.com/qr on your phone or computer.
Step 2: Fill in the **password** of your Wi-Fi network.
Step 3: Click on **Generate**.
Step 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.

**Connect to the internet by using your Envision Glasses and the Envision app**

Step 1: Turn on the Envision Glasses and put them on.
Step 2: When you are in the main menu, navigate to **Settings** and double-tap.
Step 3: Navigate to **Wi-Fi** and double-tap.
Step 4: Double-tap on **Connect Wi-Fi**.
Step 5: You will hear a fetching sound. Upon completion, a list of Wi-Fi networks will be given. Navigate to your Wi-Fi by swiping forward or back.
Step 6: Double-tap on your **Wi-Fi name**.
Step 7: Double-tap again to fill in your password using the Envision app.
Step 8: You will receive a notification from the Envision app on your smartphone.
Step 9: Tap on the notification. This will open the Envision app.
Step 10: Tap on the input field to fill in the password of your network.
Step 11: Tap on **Connect** to have the password filled in. Your Envision Glasses should connect to your WiFi.

**Connect to the internet by using the Envision app**

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

**Features that do not require an internet connection**

To enjoy the full potential of the Envision Glasses, an internet connection is needed. That does not mean when you are not connected to the internet you can not use the device. The following features do not require an internet connection:

1. Instant Text (when the offline mode is activated).
2. Detect colors.
3. Find objects.
4. Find people.
5. Explore.

**Hotspot**

Are you outside of the house and you still want to use your Envision Glasses? In the previous paragraph, you already read that you do not need an internet connection for every feature. Although, when you are
outside, one other possibility is to connect to your phone and use it as a hotspot.

Once your hotspot is on, you can go through the same steps as shown in the previous paragraphs.

**Hotspot on iOS:**
To turn on your hotspot on an iPhone or iPad, complete the following steps:

Step 1: Go to **Settings**.
Step 2: Go to **Personal Hotspot**.
Step 3: Go to **Allow Others to Join** and toggle the switch to on.
Step 4: Go to **Wi-Fi Password** and enter a password. This is the password that you will use to connect to the hotspot.
Step 5: Click on **Done**. This will bring you back to the Personal Hotspot screen.
Step 6: Below Wi-Fi password, you will find a text where it states what the name of your hotspot is.
Step 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**.

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

Step 1: Go to **Settings**.
Step 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.
Step 3: Go to **Hotspot & tethering** (if you can’t find it, it might be in the **More** subsection).
Step 4: Go to **Portable Wi-Fi Hotspot**.
Step 5: Go to **Set up Wi-Fi Hotspot** (sometimes also **Configure Mobile Hotspot**).

Step 6: Choose your **network name** and **password**. This is the password that you will use to connect to the hotspot.

Step 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**.

**My hotspot is not detected by the Envision Glasses?**

In some cases, your hotspot might not be detected by the device. In this case, make sure the option ‘Allow others to Join’ is enabled. Besides that, it is also essential to know whether the provider of your sim card enables creating a personal hotspot. You can try to connect other phones with your personal hotspot to see whether that works. As a final check, see whether your internet connection is strong enough. If you are still not able to connect to the hotspot, don’t hesitate to contact the Envision Customer Service team.

### 5.2 Bluetooth

The Envision Glasses have a built-in Bluetooth module. This does not only allow the device to pair with the Envision app, but also to connect to other Bluetooth devices, such as headphones and earbuds.

Complete the instructions below to connect to Bluetooth headphones or speakers:

Step 1: Turn on the Envision Glasses and wear the device.

Step 2: Make sure your headphones or earphones are turned on and in pairing mode.

Step 3: From the main menu go to **Device Settings**.

Step 4: Now go to **Bluetooth**.
Step 5: Double-tap on **Connect devices**. You will hear a fetching sound. This means the Envision Glasses are looking for Bluetooth devices around you.

Step 6: You will hear the first discovered device, swipe forwards or back to scroll through the list of Bluetooth devices around you.

Step 7: Double-tap on the **name of your Bluetooth device**. You will hear the processing sound.

Step 8: After the sound, you will hear the sound coming from your Bluetooth device.

**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 (AirPods Pro, Beats Powerbeats etc.).

Step 1: Make sure that both of the AirPods are in its case.

Step 2: Open the lid of your charging case.

Step 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.

Step 4: Grab your Envision Glasses and go to **Device Settings**.

Step 5: Now go to **Bluetooth**.

Step 6: A list of Bluetooth devices will show up. Navigate to the name of your AirPods.

Step 7: Get out the AirPods of the case and put both of them in your ear.

Step 8: Now double-tap on the name of your AirPods and wait for it to connect.

Step 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.
5.3 USB-C

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 glasses with the provided cable, but it can also be used to attach earphones or speakers to your glasses.

Any USB-C earphones, or speakers, can be used with the Envision Glasses. Simply plug in the device and the sound will come from the speakers or earphones.

What to do if I don’t have USB-C earphones or speakers?

If you don’t have earphones that use USB-C instead of the traditional 3.5mm audio jack, there are converters you can use as well. This converter is called USB-C to 3.5mm audio jack. Plugin 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.
6. Power

The Envision Glasses have a built-in battery that can last up to 5 hours, depending on how it is used.

![Envision Glasses Power Button]

6.1 Charging

The Google Glass 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 pulses to indicate that the device is charging, but the device will also speak out the battery level.

The Google Glass also supports 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.
6.2 Behaviour
The glasses can be powered on and off or set to sleep or awake mode. Set the Envision Glasses to sleep mode whenever you are using the Envision Glasses throughout the day. We only suggest to power off the device whenever you plan on not using it for a few days. Keep in mind that if the device is off, turning the device on can take up to a minute before it can be used again.

6.3 On or off
Press the power button down firmly for 6 seconds to turn the device off. You will hear a sound that indicates the Envision Glasses are powering off.
Press the power button down firmly for 3 seconds to turn the device on again. It takes about a minute for the Envision Glasses to power on. Once the glasses are powered on, you will hear a sound.

6.4 Sleep or awake
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.

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.

Power button
By clicking on the power button, the device will go to sleep. This will happen both when the Envision Glasses are folded out and in.
Additionally, when you are on the start screen, it will automatically go to sleep after 30 seconds.
**Settings**

Inside device settings, navigate to power and after that to sleep. This will put your glasses to sleep (even if the glasses are folded out).
7. Features

The features of the Envision Glasses are divided into four categories: ‘Read’, ‘Identify’, ‘Find’ and ‘Call’. Each category consists of 1 or more features. Besides these four categories, there are three more tabs with device settings, feature preferences and help. Chapter 4.2 shows an overview of the menu and how to access the different features.

7.1 Read

This category helps with reading any piece of written information. Whether you would want to read a book, a menu card at a restaurant, a handwritten note or when looking for the right platform at the train station. There are three features in the read category: ‘Instant Text’, ‘Scan Text’ and ‘Batch Scan’.

Instant Text

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

Follow the steps to activate ‘Instant Text’:

Step 1: Go to Read and double-tap.
Step 2: Go to Instant Text and double-tap.
Step 3: The camera is activated and every piece of text will be read.

Pause instant text?

Single-tap to pause the text being spoken out. It will be paused until you single-tap again to activate instant text.
Reset instant text?
Is the text still reading out what you were pointing your glasses at previously? Then double-tap to reset instant text and it will start reading out the new piece of text.

Switch between online and offline instant text?
It is possible to use instant text offline for reading Latin-based languages. 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 Latin-based languages, then enabling the offline mode is a great solution.

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

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

Option 2: Feature Preferences menu
Step 1: Go to Feature Preferences.
Step 2: Go to **Instant Text**.
Step 3: Double-tap to toggle between the offline mode being enabled or disabled.
Step 4: Swipe down to confirm your selection.

**Scan Text**

‘Scan Text’ is the second feature in the ‘Read’ category. This feature 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. ‘Scan Text’ also offers the option for text detection to guide the positioning of the document in front of the glasses. With text 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’ without text detection:

Step 1: Go to **Read**.
Step 2: Go to **Scan Text** and double-tap.
Step 3: Point the camera to the text that you want to scan.
Step 5: You will hear a countdown sound, followed by a capture sound. This means the picture was taken and is being processed.
Step 6: Your text is now opened in the reader and you can read through the scanned text.

**Scan Text with text detection?**

Step 1: Go to **Read**.
Step 2: Go to **Scan Text** and double-tap.
Step 3: The camera is now activated and will start detecting words.
Step 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 amount of words determine the
frequency of taps that will be played.

Step 5: Once you think the frequency of the taps will not go any higher,
double-tap again to capture the text.

Step 6: Your text is processed and will be opened in the reader, where
you can read it.

Switch text detection on or off?
To switch text detection on or off, you can two-finger tap on the feature
or go to Feature Preferences to change its behaviour.

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:
Single-tap: pause speech.
Two-finger tap: export text to the Envision app.
Swipe forward: scroll to the next phrase of the scanned text.
Swipe back: scroll to the previous phrase of the scanned text.

Batch Scan
‘Batch Scan’ allows you to scan more than one document at a time.
The text detection behaves the same as the ‘Scan Text’ feature. The
gestures to scan a second page are different and explained below.

Follow the steps to scan 2 or more pages:
Step 1: Go to Read.
Step 2: Go to Batch Scan and double-tap.
Step 3: Depending on whether text detection is enabled, you will be
informed that the first page is scanned.
Step 4: Double-tap again to scan the second page. Repeat this step for the pages that follow.
Step 5: If you are done scanning the pages or pieces of text, two-finger tap to complete scanning.
Step 6: A success sound will be played and all scanned text will be opened in the reader.

7.2 Identify
The ‘Identify’ category helps you identify what is around you. The Envision Glasses describe what you are looking at, or detect colors.

Describe Scene
This feature describes what is seen in front of you. By using artificial intelligence, it can describe the scene.
Step 1: Go to Identify.
Step 2: Go to Describe Scene and double-tap.
Step 3: 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.
Step 4: Double-tap again to describe another scene, tap to repeat the described scene or swipe down to exit.

Taught faces?
If a person, whose face was taught to the Envision App, is in the scene, they will be included in the description.

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.
Step 1: Go to Read.
Step 2: Go to Detect Colors and double-tap.
Step 2: The colors will be spoken out.
Step 3: Tap once to pause, tap again to continue the speech.

The spoken colors are 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.

7.3 Find
The ‘Find’ category is meant to find objects in a certain room. Find a specific object, a person, or explore what is around you.

Find objects
This feature allows you to see whether 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.

Step 1: Go to Find.
Step 2: Go to Find Objects and double-tap.
Step 3: Look around with your Envision Glasses to look for the specific item.
Step 4: Swipe forward or back to switch between the different objects that you want to find.
Step 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.

Find people
This feature detects people and specific persons in front of you.
Step 1: Go to **Find**.

Step 2: Go to **Find People** and double-tap.

Step 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 recognise this person.

**Taught faces?**

By teaching the Envision app faces of your friends and family, the app is able to recognise them. You can teach faces in the Feature Preferences on the Envision app.

**Explore**

This feature scans the environment for any object and speaks it out. This feature can be helpful to understand what is located around you whenever you are in an unknown room.

Step 1: Go to **Find**.

Step 2: Go to **Explore** and double-tap.

Step 3: Look around you and the objects will be spoken out.

**7.4 Call**

This category allows you to call a friend or family member that uses the Envision Ally app. Because of the camera in the front of the Envision Glasses, someone else is able to see what you are looking at.

**Call an Ally**

This feature allows you to call a friend or family member that has downloaded the Envision Ally app and that you have accepted as an Ally. Whenever you are in a situation where the other Envision features are not able to solve your problem, you will be able to call your Ally. They will be notified on their phone with the Envision Ally app.
Step 1: Go to **Call**.
Step 2: Go to **Call an Ally**.
Step 3: Navigate to the Ally that you want to call and double-tap.
Step 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.
Step 5: Swipe forward or back to increase or decrease the volume. Swipe down twice to exit the call.

**Add 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 download the app Envision Ally. The Envision Ally app can be downloaded in the App Store (iPhone) or Play Store (Android).

**Complete the steps below to add someone as an Ally:**

Step 1: Open the Envision app on your phone.
Step 2: Navigate to the **Glasses** tab.
Step 3: Go to **Feature Preferences**.
Step 4: Go to **Add Ally**.
Step 5: Tap on **Invite to Envision Ally**.
Step 5: Share the link with your friend. Your friend should open the link on their phone.
Step 6: Once your friend has opened the link on their phone and has the Envision Ally app installed, you will be approved as their Envisioner. Now turn on your Envision Glasses.
Step 7: On your Envision Glasses, go to **Call**.
Step 8: Go to **Call an Ally**.
Step 9: Your new added Ally will appear in the list, which you can scroll through by swiping forward and back.
8. Make it personal!

Make your Envision Glasses personal by customising the settings to your liking. Change the settings of the device or adjust your preferences for the specific features on the device.

8.1 Device Settings

The Envision Glasses are designed in a way that anyone without vision would be able to use the device. We also allowed for optimal personalisation for a better experience. Device settings are the settings that can be changed and affect the entire experience of using the Envision Glasses. Inside the device settings, Bluetooth you can find the following options to change: ‘Audio’, ‘Wi-Fi’, ‘Bluetooth’, ‘Language’, ‘Screen’, ‘Software’ and ‘Power’.

Audio

The audio settings allow you to change the volume and speed 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

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

Wi-Fi
Most of the Envision Glasses features require an internet connection. You can connect to a Wi-Fi connection by using the Envision Glasses or by using the Envision app. Go to chapter 5.1 to learn how to connect to an internet connection.

Bluetooth
The Envision Glasses have a built-in bluetooth module. This not only allows the device to connect to the Envision app but also to connect to other Bluetooth devices such as headphones and earbuds. Go to chapter 5.2 to learn how to connect Bluetooth devices to the Envision Glasses.

Language
In the language settings, you can change the language of the Envision app.
Step 1: Go to **Device Settings**.
Step 2: Go to **Language** and double-tap.
Step 3: Scroll through the list of languages by swiping forward and back.
Step 4: Double-tap on your preferred language. Afterwards, you will hear a processing sound and you will be redirected to the start screen.
Screen
The Envision Glasses have a small screen at the front where images are projected on the glass, which can be used as a visual interface. If you have vision, this screen should still be visible to you. However, if you have a little bit of rest vision and the screen is not helping you concentrate, there is a possibility of turning the screen off.

Step 1: Go to Device Settings.
Step 2: Go to Screen and double-tap.
Step 3: The screen reader will speak out whether the screen is on or off. Double-tap to enable or disable the screen.
Step 4: Swipe down to go back and confirm your selection.

Software
The software settings allow you to check whether there is an update and to install the latest software update.

Step 1: Go to Device Settings.
Step 2: Go to Software and double-tap.
Step 3: Double-tap again on Check update.
Step 4: You will hear a fetching sound that checks whether a new update is available. Double-tap again on New update to install the latest software update.
Step 5: A processing sound will be played and you will be redirected to the start screen.

Power
The power settings allow putting your device to sleep, check the battery level and explain how to turn off the device.
Sleep
Besides settings the device to sleep mode by physically folding it, the device can also be set to sleep mode in this setting.

Step 1: Go to **Device Settings**.
Step 2: Go to **Power**.
Step 3: Double-tap on **Sleep**, this will trigger the Envision Glasses to go into sleep mode.

Battery
This setting speaks for itself. When navigating to the battery screen, it will announce the battery level. Whenever the device is charging, it will also announce that it is charging.

Power
This setting in the power settings explains how to turn off the Envision Glasses.

8.2 Feature Preferences
The previous chapter focuses on the settings of the Envision Glasses. That part is mostly about the general experience using the device. In this chapter, preferences can be set for specific features.

Instant Text Preferences
In the ‘Instant Text’ preferences you can switch between online and offline instant text.

Step 1: Go to **Feature Preferences**.
Step 2: Go to **Instant Text Preferences**.
Step 3: Double-tap to toggle **between** the offline mode being enabled or disabled.
Step 4: Swipe down to confirm your selection.
As explained in chapter 7.1, you can also change these settings by doing a two-finger single tap on the Instant Text feature.

**Scan Text preferences**

The preferences for scanning documents consists of text detection and automatic language detection.

Step 1: Go to **Feature Preferences**.
Step 2: Go to **Scan Text Preferences**.
Step 3: Double-tap to toggle *between* the text detection being enabled or disabled.
Step 4: Swipe forward to toggle automatic language detection.
Step 5: Double-tap to toggle between having automatic language detection on or off.
Step 6: Swipe down to confirm your selection.

As explained previously, also these preferences can be changed by doing a two-finger tap on the scan text screen.

**Teach Faces Preferences**

The preferences for teaching faces consist of learning a face that can be recognised when finding people, or describing a scene. To learn a face, the Envision app is needed. The 'Teach Faces' preferences in the Envision Glasses allow you to send a notification to your phone, by tapping on this notification, this feature will automatically be opened in the app.

Step 1: Go to **Feature Preferences**.
Step 2: Go to **Teach Faces Preferences** and double-tap.
Step 3: If you don’t have an internet connection, the screen reader will explain how to teach a face. In this guide, we assume you do have an internet connection which will trigger a notification.

Step 4: Grab your phone and tap on the notification that was just sent from the Envision Glasses.

Step 5: The Envision app will open the screen to teach a face.

Ally Preferences
The preferences for the Ally consist of adding an Ally. By navigating to the category Ally, you can also add an Ally.

Step 1: Go to Feature Preferences.
Step 2: Go to Ally Preferences and double-tap.
Step 3: If you don’t have an internet connection, the screen reader will explain how to add an Ally. In this guide, we assume you do have an internet connection which will trigger a notification.
Step 4: Grab your phone and tap on the notification that was just sent from the Envision Glasses.
Step 5: The Envision app will open the screen to add an Ally.
9. I still need help

The last main category of the Envision Glasses is Help. In the Help category, you will find the Playground, Tutorials and an About screen. In this chapter, you will find more information about the Playground, FAQs and how to contact us.

9.1 Playground

The playground is an area to practice the gestures of the Envision Glasses. Once you enter the Playground, you can try out the gestures. By doing a gesture, it will speak out what gesture it is and what it does. Forgot what a two-finger single tap does again? Simply enter the Playground and try it for yourself.

To access the Playground, complete the following steps:
Step 1: Go to Help.
Step 2: Go to the Playground and double-tap.
Step 3: The screen reader will speak out that the Playground is starting followed by a sound. After this sound, you are inside the playground and you can try the gestures.

Want to exit the Playground? Press and hold the hinge button.
An overview of the gestures: swipe forward, swipe back, swipe down, single tap, double-tap, two-finger single tap and tap and hold.

The tutorials simply explain the features that are presented in this guide and the About screen includes the version of your software and the possibility of unpairing your Envision Glasses from the app.
9.2 Frequently asked questions

This chapter is an overview of the frequently asked questions with regards to the Envision Glasses. They partly consist of questions that can be found throughout this guide.

What to do if I already have a subscription?
If you already have a monthly or annual subscription of Envision AI app, you will have to cancel your subscription manually through the PlayStore or AppStore after the lifetime subscription is added to your account. If you already had a lifetime subscription, then there is nothing you have to do.

How do I create a Wi-Fi QR code?
Step 1: Go to envisionglasses.com/qr on your phone or computer.
Step 2: Fill in the password of your Wi-Fi network.
Step 3: Click on Generate.
Step 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.

My hotspot is not detected by the Envision Glasses?
In some cases, your hotspot might not be detected by the device. In this case, make sure the option ‘Allow others to Join’ is enabled. Besides that, it is also essential to know whether the provider of your sim card enables creating a personal hotspot. You can try to connect other phones with your personal hotspot to see whether that works. As a final check, see whether your internet connection is strong enough. If you are still not able to connect to the hotspot, don’t hesitate to contact the Envision Customer Service team.
Are the Envision Glasses waterproof?
The Google Glass 2 are IP65 certified. This means they are rated as dust-tight and protected against water projected from a nozzle. The device is water-resistant to 1 meter, so cleaning it with a disinfectant wipe or a damp, non-abrasive, cloth and a mild soap is appropriate. Ideally, Google Glass 2 should not be completely submerged.

How do I clean the glasses?
• Isopropyl alcohol wipes and other cleaning wipes safe for human skin may be used to clean and lightly sterilise the surfaces of the device.
• Towel dry surfaces or simply allow to air dry.
• USB-C connector: if debris is lodged in the USB-C connector use a soft cloth and cotton swab to gently clean the port.

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

Artificial Intelligence: Artificial Intelligence is a broad term used to demonstrate intelligence by machines. We, at Envision, mainly use its subcategory Computer Vision.

Body: The body is the main part of the Envision Glasses which consists of the camera, the internals and the speakers. The body is worn on the right side of your head.

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 that you can add (through the Envision Ally app) to use the call option on the Envision Glasses. The ally, which can be a friend or family member, downloads the separate Envision Ally app and accepts you (the Envisioner). Afterwards, you will be able to call the Ally and they will be able to see what you are seeing through the Envision Glasses’ camera.

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

**Envision Glasses:** The Google Glass 2 smart glasses in combination with our AI-powered software.

**Screen reader:** When we refer to the screen reader, we refer to the system that speaks out the interactive elements in a screen. The Envision Glasses have a custom built-in screen reader that speaks out every screen.

### 9.4 Customer Service

You may have read this entire guide and read through the frequently asked questions in the previous chapter and still be stuck with questions. In that case, we would advise you to contact us.

**Email**

Contact us by sending an email to: glasses@letsenvision.com. We usually reply within 24 hours.