# **Envision App User Guide**



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



Updated on August 7, 2024 for Envision App Version 3.4.1 on Android and 3.4.0 on iOS For a more up-to-date version of this guide, visit: <a href="mailto:support.letsenvision.com">support.letsenvision.com</a>

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# 1. Welcome to the Envision Family



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 App. If for any reason your Envision App is 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** 

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

## 2. Getting Started

In this section, we explain in detail what Envision App is, how to download it, how to create an account, the Onboarding process that all our users receive the first time they open the app and the layout.

## 2.1 What is the Envision App?

The Envision App is an application that aids anyone with a vision impairment to access the world around them.

#### Read all kinds of text

Envision provides the fastest and most accurate OCR Optical Character Recognition. Quickly read any piece of text from any surface, including: food packaging, posters and display screens. It even works on handwritten text and recognises scripts of more than 60 languages.

#### Know what's around you

In its mission as a single app for all visual recognition needs, Envision offers a full range of functions, it can describe scenes around you, detect colors in the most descriptive way and scan barcodes and accessible QR codes of products. It truly is a swiss-knife with new features being added all the time.

## Find what you're looking for

You can use Envision as a scanner to search for people and things around you. If you need to find the cup left on the kitchen counter, or a waste garbage can in a room, simply scan around you with your phone and Envision will find what you are looking for. This works as well when you are looking for people in general, or want to find a particular friend or colleague in a new place. You can show Envision the faces of your friends and family and it will let you scan and find them.

## 2.2 Download and Install Envision App

Envision is a free smartphone app that articulates everyday visual information into speech. And, with this information, comes the feeling of independence and the perception of possibilities. Keep in mind that Envision App requires mobile data or Wi-Fi for general operation, even if the features are offline.

## **Supported Platform Versions**

- **App Store:** We currently support iOS 15 and above.
- Play Store: We currently support Android Version 7 Nougat and above.

You can install the Envision App by following the method of your choice below:

- 1. Download from App Store
- 2. Download from Play Store
- 3. Download by scanning our QR Code
- 4. Download manually on iOS
- 5. Download by using Siri
- 6. Download manually on Android
- 7. Download by using Google Assistant

#### Download by scanning our QR Code

- 1. Open the camera app on your smartphone.
- 2. Point the camera to the QR code located below:



- 3. Once the QR code is recognized, a notification will appear on your phone.
- 4. One-finger tap on the notification to find the Envision App on the App Store if you use iOS or on the Play Store if you use an Android phone. **Note:** Some Android phones may require you to enable Scan QR Codes with the camera app or use a separate QR Code Scanner app.

## **Download manually on iOS**

- 1. Navigate to the App Store icon on your phone
- 2. One-finger double tap on App Store.
- 3. One-finger double tap on the search tab, located on the bottom right corner of the screen.
- 4. Type **Envision AI** into the search box and one-finger tap the enter key.

#### **Download by using Siri**

- 1. Hold down the home or side button on your device to activate Siri. Note, that 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.
- 2. Say 'Search for Envision AI on the App Store' Siri recognises Envision AI as 'Envision Aye Eye'.
- 3. Allow it to open in the App Store. After you search for Envision manually or with Siri, you will be presented with a list of apps that match what you searched for. Look for Envision AI from Envision Technologies B.V.
- 4. Tap on Install to download the app for free. You may need to click Download again.

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

#### **Download manually on Android**

- 1. Navigate to the Play Store icon on your phone.
- One-finger double tap on Play Store.
- 3. One-finger double tap on the search tab located at the top of your screen.
- 4. Type 'Envision AI' into the search box and one-finger tap to enter.

#### **Download by using Google Assistant**

- 1. Activate Google Assistant on your phone using the assigned shortcut.
- 2. Say 'Search for Envision AI on the PlayStore.' Your phone recognises Envision AI as 'Envision Aye Eye'.
- 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 what you searched for. Look for Envision Al from Envision Technologies B.V.
- 4. Tap on Install to download the app for free. You may need to tap on Download again.

## 2.3 Creating An Account To Login

Once you have downloaded the Envision App, you can create an account by logging in with your preferred login method. Currently you can create an account with Google and Email for Android smartphones and with Google, Email and Apple ID for iOS smartphones. Once created, you will be able to use all Envision App features for free. For more information on how to download Envision App, see <a href="Download and Install Envision App">Download and Install Envision App</a>.

## 2.4 Onboarding and Layout on Envision App

Now you are ready to start using the Envision App, which has been optimised with accessibility options in mind. In iOS you can enable dynamic type to expand the buttons, <u>here</u> are the steps to set it up or you can enable VoiceOver. For more information about how to use TalkBack on Android smartphones, please tap here.

On Android, you can enlarge the screen <u>by following the steps here</u> or activate the TalkBack screen reader. For more information about how to use TalkBack on Android smartphones, <u>please tap here</u>.

Once you have downloaded the Envision App, you will go through the onboarding process, which includes the following:

- Welcome to Envision Screen
- Help Us Improve Screen
- Features & Layout
- Envision App Video Tutorial

#### Welcome to Envision Screen

First, you will be presented with a screen that displays a brief explanation of Envision's features that are designed to help you fully understand the visual world around you. Once you have read them, you can tap the Continue button to log in via Google, Email or Apple ID.

#### **Help Us Improve Screen**

Once you are logged in, you will be prompted for permission to access your camera, as most of Envision's features require your camera. In addition, a screen will appear requesting your consent to sharing the data. Your data helps us to improve our algorithms and therefore the results and performance of the app.

## Features & Layout

When you open the Envision App for the first time after downloading, it will start with the <u>Onboarding</u> which contains guides to understand each of the functionalities. For more information, see Onboarding on Envision App

After Onboarding, every time you open the app, the main screen will appear. The Envision App layout is divided into different tabs. The first level, located at the bottom, has 3 tabs: App, Envision Glasses and Settings

By tapping on any of the main categories App, Envision Glasses and Settings you will open a second level just above where you will be presented with more features that you can access.

Below is a list of the features you can find in each of these tabs:

- App Tab: Once you have selected this tab, to access the second level which will open all the Envision App features, swipe to the left with one finger. By default, the first option will be Instant Text. To move from one feature to another, you can swipe up or down. The next features in order are Scan Text, Library, Import File, Scan Barcode, Describe Scene, Find Objects and More Features tab. If you select the More Features menu and swipe up twice, you will find the following features: Find People, Teach Envision and Detect Colors.
- Envision Glasses Tab: On this screen, you can Request a Demo or Pair your Envision Glasses with the Envision App. If you are already an Envision Glasses user, you will hear the following options: Status, Battery, Wi-Fi, Settings and Help.
- Settings Tab: Here you will find all the settings you can configure to customize your experience within the app. The following options will be presented:
  - Account Details
  - Support Envisioners
  - What's new in this update? Updates are similarly available here:
     New Updates & Release Notes
  - Menu Structure: This option provides the possibility to add, hide or rearrange the features of the main menu and the More Features sub-menu as desired.
  - Dark Mode
  - Processing Sound
  - Reading Language
  - Language Detection
  - Layout Detection
  - Speech or Text-To-Speech
  - Color Detection
  - Tutorials

- Give Feedback
- Data Sharing
- Share with Friends
- Write a Review
- About Envision

#### **Envision App Video Tutorial**

To get started with the new Envision App layout, please check out this video tutorial.

## 3. Features & Functions

In this section, we explain all the categories and features that Envision App has, through these articles you will learn how to activate and configure each one of them.

#### 3.1 Instant Text

Read short pieces of text around you instantly. This feature uses a video feed to detect text in front of the camera and speaks it out. It works without the internet for Latin-based scripts and with internet for all other scripts. This feature is ideal for reading short pieces of text as found in room numbers, signs, book covers, and much more.

#### **How to activate Instant Text?**

Follow these steps:

- 1. Select the App tab and navigate to **Instant Text**.
- You will hear a sound which means Instant Text is now active and it is looking for text to be spoken out.
- 3. Tap the **Instant Text** button again to pause the results and reset this feature.

#### How to select my Reading Language?

If you are reading documents mainly in one language, you can select it as your reading language, to improve the accuracy of your results in the Envision App. You can always change the reading language in case you are reading a text that is in a different language than the one currently selected.

To change this setting, follow these steps:

- 1. Tap on the **Reading Preferences** icon located on the top right corner.
- 2. Now toggle the option Reading language. A new screen will be opened.
- 3. On this screen you will see a list of all the languages supported by the Envision App. You can now tap the language you want to read in. A success message will be displayed and you will return to the **Reading Preferences** screen. Tap on the **Back** button.
- 4. Now tap on **Instant Text** and the app will detect and read any text in the selected language.

#### 3.2 Scan Text

Scan Text allows users to scan a document or text and is intended for longer, denser texts and handwriting. Once the document is scanned, the Reader opens, allowing you to play, pause or navigate through specific parts of the text.

This article contains the following:

- How to start scanning text?
- How to select my reading language?
- How can Envision detect languages automatically?
- How can Envision detect columns and headers?
- How can Envision detect handwritten text?

#### 3.2.1 How to start scanning text?

Follow these steps:

- 1. Select the **App** tab and navigate to **Scan Text**, this will open a new screen.
- 2. Grab a document that you want to scan and point your phone's camera to it.
- 3. If the document has clear corners, it will be automatically detected and processed. You can as well tap on the **Take Photo** button to manually capture your document.
- 4. You will hear a processing sound and the captured document will be opened in the **Reader**. You can read more about the reader and all its possibilities in the **Reader** article.

#### 3.2.2 How to select my reading language?

If you are reading documents mainly in one language, you can select it as your reading language, to improve the accuracy of your results in the Envision App. You can always change the reading language in case you are reading a text that is in a different language than the one currently selected.

To change this setting, follow these steps:

- 1. Select the **App** tab and navigate to **Scan Text**.
- 2. Tap on the **Scan Text Preferences** icon located on the top right corner.
- 3. Now toggle the option **Reading language**. A new screen will be opened.
- 4. In this screen a list with all the languages supported by the envision app is displayed. You can now tap on the language you want to read on. A success message will be displayed and you will return to the **Scan Text Preferences** screen. Tap on the **Back** button.
- 5. Now start taking a picture of the document that you'd like to have read.
- 6. The document will be opened in the **Reader** and it will automatically read the document in the selected language.

#### 3.2.3 How can Envision detect languages automatically?

If you don't know what language a document has, or if you want to read a document that has several languages, you can activate **Language Detection**.

To turn on **Language Detection**, follow these steps:

- 1. Select the **App** tab and navigate to **Scan Text**.
- 2. Tap on the **Scan Text Preferences** icon located on the top right corner.
- 3. Now toggle the option Language Detection.
- 4. Once you have enabled **Language Detection**, tap on the **Back** button.
- 5. Now start taking a picture of the document that you'd like to have read.
- 6. The document will be opened in the **Reader** and it will switch automatically between the different languages.

#### 3.2.4 How can Envision detect columns and headers?

Another option with **Scan Text** is being able to detect columns. This means that whenever a text contains columns, it will read correctly in the right direction. First, it will read the column on the left and then the column on the right. Headings are also recognised, therefore whenever there is a heading in the document you are reading, the app will inform you about it.

To turn on **Layout Detection**, follow these steps:

- 1. Select the **App** tab and navigate to **Scan Text**.
- Tap on the Scan Text Preferences icon located on the top right corner.
- 3. Now toggle the option Layout Detection.
- 4. Once you have enabled **Layout Detection**, tap on the **Back** button.
- 5. Now start taking a picture of the document that you'd like to have read.
- 6. The document will be opened in the **Reader** and it will automatically read the text in the correct order and speak out loud '*Heading*' whenever a heading is detected on the text.

**Note:** All these preferences can also be changed on the **Reader** by tapping on the **Reader Preferences** button. For more information, see Reader

#### 3.2.5 How can Envision detect handwritten text?

The Envision App is 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.

#### 3.3 Batch Scan

With the Envision App you can perform several scans in a row and process them all at the same time. This is done by using the **Batch Scan** feature, nested inside **Scan Text**.

To start scanning multiple documents, please follow the steps below:

- 1. Select the App tab and navigate to Scan Text.
- 2. Located above the **Take Photo** button, toggle the **Single** scan option to **Batch**. When using a screen reader, swipe left twice from the **Take Photo** button to be able to switch from **Single** to **Batch**.
- 3. Once switched to **Batch**, tap on the **Take Photo** button, or wait for the page to be recognized and captured automatically.
- 4. As soon as the first document has been captured, press the **Take Photo** button again to perform a second scan, or wait for the page to be recognized and captured automatically.
- 5. When you are done scanning multiple documents, tap on the **Done** button.
- 6. You will hear a processing sound and the captured documents will be opened in the **Reader**.

## 3.4 Reader

Once you capture a document using **Scan Text** or **Batch Scan**, the text will be opened in the **Reader**. The **Reader** gives you the freedom to scroll through paragraphs, play, pause, translate and export text. You will find the following options in the reader:

- Reader Preferences
- Save to Library
- Export
- Go to Page Beginning
- Translate
- Jump to Page
- Reader Preferences

#### **Reader Preferences**

The **Reader Preferences** are located at the top right and have the following options:

- Language Detection: Enable this option to have the Envision App automatically read the text in the detected language. If disabled, the text will be read in the phone's default language.
- Layout Detection: Enable it when you find documents where the texts are
  divided into paragraphs and columns. If this option is enabled, the columns will
  be read in the correct order and the Envision App will speak out when a heading
  is detected. Disable this option for vertically written scripts.
- 3. **Text Size:** Here you will find a text size bar. To increase the text size, swipe upwards; to decrease the text size, swipe downwards. Repeat this gesture until the desired text size level is reached.
- 4. **Auto-Play:** Enable this option to automatically play the document after opening it. If you disable it, you will have to manually tap the **Play** option at the bottom to hear the results.
- 5. **Voices:** Here you will have a list of all available voices, and you will be able to switch to any other voice you wish.
- 6. **Reading Language:** Here you can select your preferred reading language, which will be taken into account when **Language Detection** is disabled.

7. **Speaking Rate:** Here you will find a speaking rate bar. To increase the speaking rate, swipe upwards; to decrease the speaking rate, swipe downwards. Repeat this gesture until the desired speaking rate level is reached.

#### **Save to Library**

Another possibility is to save your file in your personal library. This way, you can always access your file at any time without having to retake a picture of your document in **Scan Text.** 

To save your file to the library, follow these steps:

- 1. Have a document opened in the Reader.
- 2. On the bottom left, tap on the **Save to Library** button
- 3. A pop-up will appear that will ask you to enter a filename.
- 4. Enter a name for your document.
- 5. Tap on the Save it button
- 6. Your document is now saved to the library.

## **Export**

With the export option in the **Reader**, you can save your document as a txt file, copy to clipboard or share the scanned text with your friends or family members.

To use the export feature in the **Reader**, follow these steps:

- 1. Have a document opened in the **Reader**.
- 2. Tap the **Export** button located on the bottom next to the **Save to Library** button.
- 3. A modal will appear which will give you three options:
  - a. Save as a PDF file
  - b. Save as .txt file
  - c. Copy to clipboard
  - d. Share text via
- 4. Select any of the options you want.

#### Go to Page Beginning

No matter where you are in the reading of a page, you can always go back to the beginning. Just tap on the **Play from Page Beginning** button located on the tab at the bottom of the screen.

#### **Translate**

Translate any text into a language of your choice by accessing the translation function, which supports over 50 languages. Convert texts scanned by Envision into another language when travelling or receiving foreign documents.

To translate text, follow these steps:

- 1. Have a document opened in the **Reader**.
- 2. Tap on the **Translate** button located on the bottom right.
- 3. The top of the page will change and you will have two buttons shown. The first button on the top left is the detected language of your text. The second button is the language that you want the text to translate to.
- 4. Tap on the second button. A list of languages will appear and you can select your language.
- 5. Tap on the language that you want to translate to. A modal will appear, tap on **Translate** again.
- 6. You will be redirected to the **Reader** which will now show that the text is translating. Once it's done, you will see that your text is translated.

## **Jump to Page**

In case you have done a **Batch Scan** you will have more than one page opening in the reader. You can go to the **Previous Page** or **Next Page** by pressing the buttons at the bottom of the screen on the right and left respectively. However, if you don't want to go page by page to get to the last scanned page, you can always go to a specific page.

To go to a specific page, follow the steps bellow:

- 1. Go to the page number button, located on the bottom of the screen, and do a one-finger double tap. When doing this, a window will pop-up.
- 2. On this window, you can write the number of the page you want to go to.
- 3. Once you have written the number, tap on **Go**. The popup will close and you will be redirected to the reader, where the page you selected will now be displayed.

#### **Reader Preferences**

While in the **Reader**, you can adjust your reading preferences. At the top of the screen you will find the reading preferences button. Once you press it, a new window will appear. Here you can enable or disable **Reader Preferences**, such as **Language Detection** and **Layout Detection** or change your **Reading Language**.

You can also change the **Text Size** displayed in the **Reader**, to make it larger or smaller, according to your preferences. The app also offers the option to have the text **Auto-play** once it is opened in the reader, so you don't need to tap the play button to hear the scanned text. You can activate or deactivate this function at any point in the reader. Finally, you can change the **Voice** that is reading in the Envision App and the **Speaking Rate**. Note that these last two settings will not change your **VoiceOver** settings, in case you are an iOS user.

## 3.5 Envision App Ask Envision

At Envision, we have always been at the cutting edge of technology and innovation, with which we disrupt the old-fashioned norms of assistive technology for the better. Our latest game-changer is **Ask Envision**, a powerful new feature on the Envision App that leverages GPT-4 by OpenAl to provide simple yet powerful virtual assistance to better access information and understand the world around us.

Ask Envision can be used in <u>Scan Text</u>, <u>Batch Scan</u>, <u>Describe Scene</u> and when importing images or files into the Envision App.

This feature represents a generational leap in document interaction, allowing users to inquire about summaries, translations, and specific details of their scanned documents or images. Whether you use voice or text input, **Ask Envision** is designed to provide insightful, accurate responses to your queries, transforming the way you interact with text.

This article contains the following:

- 1. How to use Ask Envision with documents and imported images and files?
- 2. How to use Ask Envision when describing scenes?

# How to use Ask Envision with documents and imported images and files?

In order to activate **Ask Envision** in the Envision App, the **Reader** must be open. To open the **Reader**, simply scan a single document with <u>Scan Text</u>, multiple documents with <u>Batch Scan</u> or import any desired images or files into the Envision App to activate **Ask Envision**.

Either type your question or use voice commands to ask about the content. Envision App will process your request and provide you with a detailed response. In addition, we have introduced a processing sound for **Ask Envision** requests, which makes the experience more interactive and user-friendly.

Follow the steps below to use **Ask Envision**:

- To open the Reader, simply scan a single document with <u>Scan Text</u>, multiple documents with <u>Batch Scan</u> or import any desired images or files into the Envision App to activate **Ask Envision**.
- 2. You will hear a processing sound and the captured document or imported image or file will open the **Reader**.
- At the bottom of the Reader, the first option will be the Ask Envision button.
   This will open the Ask Envision chat and, by default, the Keyboard Mode will be selected within Ask Envision Preferences.
- 4. To **Ask Envision** a question with the **Keyboard Mode** type it in the text field and press **Enter**.
- 5. If you want to switch to a voice conversation, you will find the **Voice** button to the left of the text field. Once selected, allow access to the microphone and tap on **Start Recording** to ask your question.
- 6. Once you have formulated your question with voice input, to formulate more questions tap the **Ask A New Question** button.

7. If you have already asked all your questions, you can tap on the **Close** button, and the chat will open again where you will be able to consult all your history of questions asked in both **Keyword Mode** and **Voice Mode**.

For detailed information on how to use the features that allow you to open the **Reader** and use **Ask Envision**, see <u>Reader</u>, <u>Scan Text</u>, <u>Batch Scan</u> and <u>Library</u>

#### How to use Ask Envision when describing scenes?

Describe Scene allows you to understand the scene in front of you. By using artificial intelligence we are able to provide you with a detailed description of your environment. This feature offers the following:

- Revamped Describe Scene: Now, not only can you select between a short or long description after capturing an image in Describe Scene, but you can also opt to directly engage with our new, exciting feature—'Ask Envision about Images'. This allows you to ask questions about the image immediately, enhancing your interaction.
- Adjustable Timer in Describe Scene: Set a 3-second timer to suit your pace of capturing. scene: take it slow or skip the wait.
- **Upgraded Envision It:** Access the familiar 'Envision It' feature through the share sheet, and now with 'Ask Envision', start inquiring about images from your gallery right away.
- Envision in Apple Shortcuts: On iOS and iPadOS seamlessly integrate Envision with Apple's Shortcuts app to create customized shortcuts that fit your needs.

To have the scene in front of you described, please follow these steps:

- 1. Select the **App** tab and navigate to **Describe Scene**.
- 2. The following three options will appear, which can be selected by double tapping with one finger if your screen reader is on:
  - a. Get a short description
  - b. Get a detailed description
  - c. Ask a Question

Once you select any of the above options, Envision App will take an immediate picture of what is in front of you. Be sure to keep your hands steady when tapping on the desired option. Keep in mind that you can

activate a 3-second timer to adapt it to your capture rate. This option can be enabled or disabled at the top left of this screen.

- Once the desired option is selected, the **Ask Envision** chat will open and provide you with the type of description selected, either short or detailed. By default, the **Keyboard Mode** will be selected within **Ask Envision Preferences**.
- 4. To **Ask Envision** a question with the **Keyboard Mode** type it in the text field and press **Enter**.
- 5. If you want to switch to a voice conversation, you will find the **Voice** button to the left of the text field. Once selected, allow access to the microphone and tap on **Start Recording** to ask your question.
- 6. Once you have formulated your question with voice input, to formulate more questions tap the **Ask A New Question** button.
- 7. If you have already asked all your questions, you can tap on the Close button, and the chat will open again where you will be able to consult all your history of questions asked in both Keyword Mode and Voice Mode. Note: For iOS users you will be able to save the image with the description in your Photos album, this option is located on the top left, next to the Ask Envision Preferences option.

For more information, see our blogpost **Discover What's New in Envision App Version 3.4: A Leap Forward in Interactive Scene Descriptions Powered By Ask Envision** 

## 3.6 Envision Library

Save and read files locally in one place in the Envision App. Save all documents you scan or import existing documents from other applications to read them within Envision. This is useful when you want to save and re-read certain documents.

#### Importing files to your Envision Library

To import a file, follow these steps:

- 1. Select the **App** tab and navigate to the **Library**.
- 2. Tap on the **Import File** button.
- 3. A modal will show up which will provide you with three options:
  - a. Import from Glasses
  - b. Import Files
  - c. Import Image
- 4. Tap on the selected option and select your file. Once you import a file, you can go back to the **Envision Library** and your file will be shown there. Keep in mind that files are stored locally on your phone. If you uninstall the Envision App, all your files will be deleted.

## 3.7 Describe Scene

Describe Scene allows you to understand the scene in front of you. By using artificial intelligence we are able to provide you with a detailed description of your environment. This feature offers the following:

- Revamped Describe Scene: Now, not only can you select between a short or long description after capturing an image in Describe Scene, but you can also opt to directly engage with our new, exciting feature—'Ask Envision about Images'. This allows you to ask questions about the image immediately, enhancing your interaction.
- Adjustable Timer in Describe Scene: Set a 3-second timer to suit your pace of capturing, scene: take it slow or skip the wait.

- **Upgraded Envision It:** Access the familiar 'Envision It' feature through the share sheet, and now with 'Ask Envision', start inquiring about images from your gallery right away.
- Envision in Apple Shortcuts: On iOS and iPadOS seamlessly integrate Envision with Apple's Shortcuts app to create customized shortcuts that fit your needs.

This article contains the following:

- 1. How to use Ask Envision when describing scenes?
- 2. Can Envision recognise taught faces in Describe Scene?

#### How to use Ask Envision when describing scenes?

Our ChatGPT-like virtual assistant **Ask Envision** is now present in this feature, to have the scene in front of you described, please follow these steps:

- 1. Select the **App** tab and navigate to **Describe Scene**.
- 2. The following three options will appear, which can be selected by double tapping with one finger if your screen reader is on:
  - a. Get a short description
  - b. Get a detailed description
  - c. Ask a Question

Once you select any of the above options, Envision App will take an immediate picture of what is in front of you. Be sure to keep your hands steady when tapping on the desired option. Keep in mind that you can activate a 3-second timer to adapt it to your capture rate. This option can be enabled or disabled at the top left of this screen.

- Once the desired option is selected, the **Ask Envision** chat will open and provide you with the type of description selected, either short or detailed. By default, the **Keyboard Mode** will be selected within **Ask Envision Preferences**.
- 4. To **Ask Envision** a question with the **Keyboard Mode** type it in the text field and press **Enter**.

- 5. If you want to switch to a voice conversation, you will find the **Voice** button to the left of the text field. Once selected, allow access to the microphone and tap on **Start Recording** to ask your question.
- 6. Once you have formulated your question with voice input, to formulate more questions tap the **Ask A New Question** button.
- 7. If you have already asked all your questions, you can tap on the **Close** button, and the chat will open again where you will be able to consult all your history of questions asked in both **Keyword Mode** and **Voice Mode**.

**Note:** For iOS users you will be able to save the image with the description in your **Photos** album, this option is located on the top left, next to the **Ask Envision Preferences** option. When using **VoiceOver**, the description generated for the photo by Envision will be spoken aloud when you hover over this photo in your **Photos** app.

For more information, see our blogpost **Discover What's New in Envision App Version 3.4: A Leap Forward in Interactive Scene Descriptions Powered By Ask Envision** 

#### Can Envision recognise taught faces in Describe Scene?

If a person whose face was taught within the Envision App is in the scene, their name will be included in the scene description. For more information, see <u>Teach Envision</u>

#### 3.8 Detect Colors

Detect the color of the object in front of you. This feature speaks out the colour of the object located in the centre of the camera frame. Use this to pick out clothing, choose from colors, and separate laundry.

This article contains the following:

- 1. How to start detecting colors?
- 2. How accurately does the Envision App detect colours?

#### How to start detecting colors?

To detect colors, follow these steps:

- 1. Select the **App** tab and navigate to **Detect Colors**.
- 2. You will hear a sound which means **Detect Colors** is now active and it is processing the colors that your camera is pointing at.
- 3. Once it has finished processing, it will speak out the colours in front of the camera's field of view.
- 4. Tap again on the **Detect Colors** button if you want to deactivate it.

#### How accurately does the Envision App detect colors?

Color detection depends on the environment. It is best to try to recognise colors in a well-lit room, otherwise, the colors may vary. This may also apply if the environment is too bright and may make the colors appear brighter than they are. Other factors that influence color recognition may be patterns, shadows or other factors. For best results, try to take a photo of the item in natural light and hold it against a white wall or ceiling to avoid picking up other colours in the background.

## 3.9 Scan Accessible QR

Finding products and accessing all of the relevant information about them can be challenging, especially in crowded supermarkets or at home if you are blind or have low vision.

Thankfully, we are not alone in tackling this challenge and together with the team at Zappar, have deployed the first truly **Accessible QR** code reader onto the main menu of the Envision App, available on both iOS and Android platforms.

## Accessible QR Code Reader on the Envision App Demonstration

To learn how this feature works, please watch the following video by tapping here.

#### **How to Access Accessible QR Codes**

To access the AQR reader on the Envision App, users can simply navigate to the **Scan Accessible QR** feature button on the main menu. With ease, you will be able to scan AQR codes on the front of products, receiving an audio narration of all available packaging information presented in a structured and accurate manner.

#### **Bringing Accessible QR Codes to Your Fingertips**

Already featured on selected **Unilever** home care products, including **Persil** in the United Kingdom, AQRs are far more accessible than standard QR codes for identifying product categories and presenting detailed product-related information.

When used on the Envision App, AQRs enable people who are blind or have low vision to more easily locate products and access comprehensive details about them, such as instructions, ingredients, safety warnings, recycling information, and promotions. The information is presented in a structured format seamlessly interacting with the already-configured accessibility features on their smartphone, offering larger text and audio output options.

The technology behind Zappar's Accessible QR solution, known as Zapvision, is at the heart of this innovation. It incorporates a unique D3 'dot-dot-dash' pattern (patent pending) around a traditional QR code. Caspar Thykier, CEO at Zappar, shares our enthusiasm for this collaboration, explaining,

Naturally, we are excited to introduce the Accessible QR scanner to our app, providing our users with more choices on how to access product information on their terms. Our hope now is that other consumer goods companies join **Unilever** and adopt AQRs as the new accessibility standard.

Try the Envision App for yourself by downloading it from the App Store or Google Play Store by tapping here.

#### 3.10 Scan Barcode

Get the description of a product from the barcode. This feature speaks out the information available from the barcode scanned. Move your phone around to position the barcode in front of your camera. A beeping will sound when the barcode is detected.

#### How to start scanning barcodes?

To scan barcodes, follow these steps:

- 1. Select the **App** tab and navigate to **Scan Barcode**.
- 2. Slowly move or rotate your phone around to look for the product barcode. You will hear a beeping sound whenever a barcode has been detected by your camera. A success sound will be played whenever the barcode has been scanned and the product name will be spoken out. This information will also be available on the screen.
- 3. Tap again on **Scan Barcode** to scan another product.

## Why is the barcode not found?

When a product can't be found, you can tap on the **More information** button, which will redirect you to the browser, where you can find some information related to it.

## 3.11 Find People

With **Find People** you can detect if there are people around you or find a specific person. This feature uses a video feed to find people. When a person is detected, a beep will sound and their name will be pronounced if their face has been taught in the Envision App. You can use this feature to locate people around you, friends, family or colleagues in a public space. This article contains the following:

- 1. How to start finding people?
- 2. How to teach a face?

#### How to start finding people?

To simply find any person that might appear in front of you, follow these steps:

- 1. Tap on the App tab. Once you have selected this tab, to access the second level which will open all the Envision App features, swipe to the left with one finger. By default, the first option will be Instant Text. To move from one feature to another, you can swipe up or down. The next features in order are Scan Text, Library, Import File, Scan Barcode, Describe Scene, Find Objects and More Features tab. If you select the More Features menu and swipe up twice, you will find the following features: Find People, Teach Envision and Detect Colors.
- 2. Double tap on **Find People**, and point your phone's back camera towards any person that may be in front of you, when a person is identified you will hear a sound.
- 3. To find a specific person, like a friend or a family member, you will first need to teach their face in <u>Teach Envision</u>.

#### How to teach a face?

For the Envision App to recognize your friends and family you need to teach their faces by following the next steps:

- 1. Tap on the App tab. Once you have selected this tab, to access the second level which will open all the Envision App features, swipe to the left with one finger. By default, the first option will be Instant Text. To move from one feature to another, you can swipe up or down. The next features in order are Scan Text, Library, Import File, Scan Barcode, Describe Scene, Find Objects and More Features tab. If you select the More Features menu and swipe up twice, you will find the following features: Find People, Teach Envision and Detect Colors.
- 2. Double tap on **Teach Envision** and select the **Teach a Face** option, the camera view will open, allowing you to take five pictures of the face of the person in front of you from different angles and distances. Once all photos have been taken, tap **Done**, enter the name for that face and tap on **Teach Envision** to save it completely. Once their face is taught, their name will be spoken out in the <u>Find People</u> feature.

#### 3.11 Find Objects

Find and locate specific objects in your surroundings. Choose objects from a predefined list to have an audio cue play when the object is in front of the camera. Use this to look for your misplaced bottles, laptop, coffee cup, and more. This article contains the following:

- 1. How to start looking for objects?
- 2. How can I select a new object?

#### How to start looking for objects?

Follow the steps below start looking for an object:

- 1. Select the **App** tab and navigate to **Find Objects**.
- 2. A list of items will be shown. Tap on the objects that you would like to find. As an example, tap on **Coffee Cup**.
- 3. The app will now speak out 'Preparing to find objects, looking for a coffee cup' which means that the camera is active and looking for a **Coffee Cup**.
- 4. Move your phone and scan your surroundings for the camera to detect a Coffee Cup that may be in front of you. As soon as the Coffee Cup is in the field of view of the phone's camera and is detected, you will hear a beep. If you do not hear a beep it means that the object has not yet been detected. For best results, move the phone slowly to allow the Envision App to correctly search for the object you are looking for.

## How can I select a new object?

If you would like to change the object you are looking for, you will have to double tap on the **Find Object** button to deactivate it and activate it again, this will display the list and you will be able to select the new object.

#### 3.12 Teach Envision

Teaching the Envision App faces of your friends and family enables it to recognise them. Once their face is taught, their name will be spoken out in the <u>Find People</u> feature. This article contains the following:

- 1. How to teach faces to Envision App?
- 2. What does the list of recognisable people contain?

#### How to teach faces to Envision App?

For the Envision App to recognize your friends and family you need to teach their faces by following the next steps:

- 1. Tap on the App tab. Once you have selected this tab, to access the second level which will open all the Envision App features, swipe to the left with one finger. By default, the first option will be Instant Text. To move from one feature to another, you can swipe up or down. The next features in order are Scan Text, Library, Import File, Scan Barcode, Describe Scene, Find Objects and More Features tab. If you select the More Features menu and swipe up twice, you will find the following features: Find People, Teach Envision and Detect Colors.
- 2. Double tap on **Teach Envision** and select the **Teach a Face** option, the camera view will open, allowing you to take five pictures of the face of the person in front of you from different angles and distances. Once all photos have been taken, tap **Done**, enter the name for that face and tap on **Teach Envision** to save it completely. Once their face is taught, their name will be spoken out in the Find People feature.

## What does the list of recognisable people contain?

This list shows the people whose faces you have taught. Envision will speak out their name if they are spotted when using the <u>Find People</u> feature.

## 3.13 Explore

This feature is a combination of the <u>Find Objects</u> and <u>Find People</u> features. Whenever you activate it, we recommend that you keep the device steady in order to allow it to detect any type of objects in front of you. This feature can be useful for understanding your surroundings when you are in an unfamiliar room, as it uses a video feed to speak aloud the objects and human faces it detects. Use it to explore a new environment and learn more about your environment.

To start exploring your surroundings, follow these steps:

- 1. Navigate to the feature **Explore** and double-tap with one finger on it. You will hear the phrase '*Preparing to explore objects*'.
- 2. Once this feature is selected, look around and, when the camera detects a person, it will say human face or person. When it detects an object, it will say the name of that object if it is part of our list of recognizable objects. For the best results, make sure to move your devices slowly around.

## 4. Settings & Preferences

#### 4.1 Account Details

On the **Settings** tab, you can change or check any settings related to your account.

In the **Account Details** tab you will find your email connected to the Envision App, along with the date you joined. In this section, you can also **Logout** of your account or **Delete your account.** 

Please note that after deleting your account you will not receive any update notifications or newsletters from Envision and all your data, such as documents saved in the library, faces taught, allies added and favourites will be deleted from our platform.

If you use this email address again to log in, you will be creating a new account and will be considered a new user. In general, your account will be deleted within 30 business days. However, if you log in with this same email address before it has been deleted, you will get your account back.

## 4.2 Support Envisioners

The Envision App on iOS and Android has become completely free since version update 3.0 released on **July 25th 2022.** We are still the same Envision you have come to know and trust but with a better-defined purpose. Join us and let's create a more accessible world together.

To download Envision App, see <u>Download and Install Envision App</u>

All active subscribers of the Envision App will forever be a part of the legacy of Envision. You are the ones who chose to support Envision all the way to this point where we have been able to build a mechanism to make the application free for everyone.

Thanks to your support and contribution, blind and visually impaired people all over the world will now have barrier-free access to a liberating tool like Envision. We genuinely appreciate it.

#### How can you still support us?

You can still choose to support us by making voluntary contributions that go directly into further development and maintenance of not just Envision App, but the whole suite of products and services that we intend to make more accessible and affordable. You can do so by donating whatever amount you deem fair by tapping here.

## 4.3 New Updates & Release Notes

Envision is a constantly evolving software and we are continuously improving its features and capabilities. Therefore, making sure you have automatic updates turned on in the App Store or Play Store, as well as notifications turned on in the Envision App to know as soon as we have released a new Envision update is essential to getting the most out of your Envision experience.

To update your Envision App to the latest version, please follow the steps below:

- Update your Envision App in the App Store by tapping here.
- Update your Envision App in the Google Play Store by tapping <a href="here">here</a>.

For Envision Glasses new software update you will receive a notification on your phone every time a new update is available and you can check the latest versions. To update your Envision Glasses, please follow the steps below:

Update your Envision Glasses by following the steps here.

To keep up to date with all the enhancements and new features we release on each update, you can check our release notes directly in the Envision App by going to the **Settings** tab and tapping on the **What's new in this update?** option. Envision Glasses users can go to the **Envision Glasses** tab and navigate to the **Help** option and tap on **What's new in this update?** 

Our release notes can as well be consulted on the following pages:

- iOS Updates
- Android Updates
- Envision Glasses Updates
- Envision Companion App Updates

#### 4.4 Give Feedback to Envision Team

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 fulfil 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, 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.

#### 4.5 Switch to Dark Mode

Dark mode helps you quickly turn the screen to dark, suitable at night time. In this mode, the Envision App uses a darker color palette and more vibrancy to make foreground content stand out against the darker backgrounds, you can toggle this setting on or off.

#### 4.5.1 How to activate dark mode?

To adjust this setting, follow the steps below:

- 1. Open your Envision App and go to the **Settings** tab.
- 2. Go to the **Dark Mode** button. When having the screen reader on, you will hear if it is currently on or off.
- 3. Do a one-finger double tap to toggle on or off the setting, you will hear a confirmation of whether the **Dark Mode** was turned on or off.

## 4.6 Configure Processing Sound

You can toggle this setting to turn on or off the sound made in the different features while the information is being processed. When this setting is on the app will play sounds for example, while it analyses the scene or text that is in front of you. When you turn it off, no sound will be played while the information is processed. This will not affect the waiting time of any feature, it is only to give you an indication of what the application is currently doing. This article contains the following:

- 1. How to turn off the processing sound when scanning books?
- 2. How to turn off the processing sound from the settings?

#### How to turn off the processing sound when scanning books?

To adjust this setting, follow these steps:

- 1. Tap on **Scan Text**.
- 2. Tap on the **Scan Text Preferences** icon located on the top right corner.
- 3. Now toggle the option Processing Sound.
- 4. Once you have enabled **Processing Sound**, you will hear a confirmation of whether the **Processing Sound** has been turned on or off.

#### How to turn off the processing sound from the settings?

To adjust this setting, follow the steps below:

- 1. Open the Envision App and go to the **Settings** tab.
- 2. Go to the **Processing Sound** button. When having the screen reader on, you will hear if it is currently on or off.
- 3. Do a one-finger double tap to toggle on or off the setting, you will hear a confirmation of whether the **Processing Sound** has been turned on or off.

## 4.7 Select Reading Language

If you are reading texts that are mostly in one language, then selecting your reading language will really improve your reading experience. When you first download the Envision App, we ask you to configure the language you want to read in. By default, we will suggest your phone's language, however, you can already select a different one. You can always adjust this language in the **App** tab or on the **Settings** tab. This article contains the following:

- 1. How to select your preferred language in the App tab?
- 2. How to select the reading language from the Settings tab?

## How to select your preferred language in the App tab?

- 1. Open the Envision App and go to the **App** tab.
- 2. Navigate to **Instant Text** or **Scan Text** and next to the **Magnifier** you will hear an option called **Preferred Language**, once you select this option a list of languages will open.
- 3. Select the language in which you want the Envision App to read your texts by double tapping with one finger on the name.

#### How to select the reading language from the Settings tab?

- 1. Open the Envision App and go to the **Settings** tab.
- 2. Go to the **Reading Language** button. This will open a new screen where all the terms are explained.
- 3. In this screen you will see a list of languages. You can select the language you want the Envision app to read your texts by doing a one-finger double tap on the name.

Keep in mind that when using **Scan Text** and having **Language Detection** enabled, your text will be read in the detected language, even if you have a different language set for reading. For instance, when you are scanning a document that is in Dutch, if you have your **Reading Language** set as English, when **Language Detection** is disabled, the Envision App will read the text with an English accent. However, if **Language Detection** is enabled, your text will be read in a Dutch accent.

### 4.8 Turn On Language Detection

Listen to a piece of text being spoken out in the correct language and voice. This option can be turned on within **Instant Text, 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 travelling abroad. You can always adjust this language on the **Read** tab on the **Read Preferences** of **Scan Text** or on the **Settings** tab. This article contains the following:

- 1. How to enable Language Detection from the Scan Text Preferences tab?
- 2. How to enable Language Detection from the Settings tab?

# How to enable language detection from the Scan Text preferences tab?

To turn on **Language Detection**, follow these steps:

- 1. Tap on **Scan Text**.
- 2. Tap on the **Scan Text Preferences** icon located on the top right corner.
- 3. Now toggle the option Language Detection.
- 4. Once you have enabled Language Detection, tap on the Back button.
- 5. Now start taking a picture of the document that you'd like to have read.
- 6. The document will be opened in the **Reader** and it will switch automatically between the different languages.

### How to enable language detection from the Settings tab?

To adjust this setting, follow the steps below:

- 1. Open the Envision App and go to the **Settings** tab.
- 2. Go to the **Language Detection** button. When having the screen reader on, you will hear if it is currently on or off.
- Do a one-finger double tap to toggle on or off the setting, you will hear a confirmation of whether the **Language Detection** has been activated or deactivated.

## 4.9 Read Columns with Layout Detection

With **Layout Detection**, you can read columns in the correct order. When this option is toggled on, Envision will read all detected headings in a document and read paragraphs from top to bottom when using the <u>Scan Text</u> feature.

For vertical scripts such as Japanese, Chinese and Korean, or when reading menu cards and bank statements, this option should be toggled off, as paragraphs will be

detected from left to right. It will directly depend on how the text is presented on the screen.

This article contains the following articles:

- 1. How to enable layout detection from the Scan Text preferences tab?
- 2. How to enable layout detection from the Settings tab?

#### How to enable layout detection from the Scan Text preferences tab?

To adjust this setting, follow these steps:

- 1. Tap on **Scan Text**.
- 2. Tap on the **Scan Text Preferences** icon located on the top right corner.
- 3. Now toggle the option **Layout Detection**.
- 4. Once you have enabled **Layout Detection**, tap on the **Back** button.
- 5. Now start taking a picture of the document that you'd like to have read.
- 6. The document will be opened in the **Reader** and it will automatically read the text in the correct order and speak out loud '*Heading*' whenever a heading is detected on the text.

## How to enable layout detection from the Settings tab?

To adjust this setting, follow the steps below:

- 1. Open the Envision App and go to the **Settings** tab.
- 2. Go to the **Layout Detection** button. When having the screen reader on, you will hear if it is currently on or off.
- 3. Do a one-finger double tap to toggle on or off the setting, you will hear a confirmation of whether the **Layout Detection** has been activated or deactivated.
- Once you have enabled Layout Detection, you can navigate to the Read tab and select Scan Text. Now start taking a picture of the document you would like to read.

For more information please see the following articles, Scan Text and Reader

## 4.10 Change Speaking Rate

Within the **Settings** tab of the Envision App, you can adjust the voice of the screen reader for the app. This article contains:

- Change Speaking Rate on Android
  - How to change the Speaking Rate from the Read Preferences tab?
  - How to change the Speaking Rate from the Settings tab?
- Change Speaking Rate on iOS
  - How to change the Speaking Rate from the Read Preferences tab?
  - How to change the Speaking Rate from the Settings tab?

#### **Change Speaking Rate on Android**

You can do this directly on the **Read Preferences** of **Scan Text**, or on the **Settings** tab.

#### How to change the Speaking Rate from the Read Preferences tab?

If you have already scanned a document and you wish to adjust the speaking rate, you can do it by following the steps below:

- 1. Go to the **Read Preferences** button and do a one-finger double tap. A pop-up window will appear.
- 2. On this pop-up, go to the **Speaking Rate** slider and adjust the speed by swiping up or down with one finger, to increase or decrease the **Speaking Rate**. You can also do a one-finger double-tap on the **Text to Speech** button to change your **Text to Speech** engine or to be redirected to the **Text to Speech** general settings on your phone to customize it.

## How to change the Speaking Rate from the Settings tab?

- 1. Open the Envision App and go to the **Settings** tab.
- 2. Go to the **Text To speech** button and do a one-finger double tap. A new screen will open.
- On this screen, you can change the **Text to Speech** engine or be redirected to the **Text to Speech** general settings on your phone to customize it.

#### **Change Speaking Rate on iOS**

Speech-related settings are only for **non-VoiceOver** speech, like the description of a scene, the results of instant or Scan text. This will not affect the VoiceOver speech. There are two ways to change the speaking rate. You can do this directly on the **Read Preferences** on the **Reader** of **Scan Text**, or on the **Settings** tab.

#### How to change the Speaking Rate from the Read Preferences tab?

If you have already scanned a document and you wish to adjust the speaking rate, you can do it by following the steps below:

- 1. Go to the **Read Preferences** button and do a one-finger double tap. A pop-up window will appear.
- 2. On this pop-up, go to the **Speaking Rate** slider and adjust the speed by swiping up or down with one finger, to increase or decrease the **Speaking Rate**.

#### How to change the Speaking Rate from the Settings tab?

- 1. Open the Envision App and go to the **Settings** tab.
- Go to the **Speech** button and do a one-finger double tap. A new screen will open.
- 3. On this screen you can adjust the speed on the slider, by swiping up or down with one finger, to increase or decrease the **Speaking Rate**.

You can also adjust the voice for the speech related to the app. For more information see, <u>Change Voices on iOS</u> or <u>Changes TTS Language in Android</u>

#### **4.11 Color Detection Preference**

Within the **Settings** tab of the Envision App, you can adjust the color detection preference.

Envision can recognise a **Standard** Palette of 30 colours or a **Descriptive** Palette of 950 colours.

#### How to change the color detection preference?

To adjust this setting, follow these steps:

- 1. Navigate to the **Settings** tab within Envision App.
- 2. Go to Color Detection and do a one-finger double tap. A new screen will open.
- 3. On this screen, you can change the **Color Detection** preference. You can switch between the **Standard** or **Descriptive** palettes according to your preference.

For more information on how to enable this feature, see <u>Detect Colors</u>

#### 4.12 Shortcuts on iOS

As an iOS user, you can select the features that you want to use with **Siri Shortcuts** or **3D Touch Shortcuts**. This is ideal for accessing your favourite features whenever you need them.

### **Siri Shortcuts**

To assign shortcuts on iOS, follow these steps:

**Step 1:** Open your Envision App and go to the **Settings** tab.

**Step 2:** Go to the **Siri Shortcuts** button and do a one-finger double-tap, you will hear the following default phrases:

- 1. Start reading instantly The default phrase is: *Read This*
- 2. Scan Text The default phrase is: **Open Scan Text**

- 3. Read PDF The default phrase is: **Read PDF**
- 4. Read Image The default phrase is: **Read Image**
- 5. Scan Accessible QR The default phrase is: **Scan Accessible QR**
- 6. Describe Scene The default phrase is: **Describe This**
- 7. Detect Colors The default phrase is: What Color Is This?
- 8. Scan Barcode The default phrase is: **Scan This Product**
- 9. Find People The default phrase is: Who Is Around Me?
- 10. Find Objects The default phrase is: *Find My Object*

**Step 3:** If you wish to edit any of the above phrases, please follow the steps below:

- 1. Do a one-finger double tap on the desired phrase to configure it. A new tab will open with the Siri Shortcuts app managed by Apple. For instance, you can select the default sentence that opens Scan Text which is: **Open Scan Text**
- 2. Once you tap on that phrase, do one-finger swipe forward until you hear **Change Voice Phrase**.
- Once you select this option you can speak out the new phrase you want to configure to open Scan Text. For instance, instead of Open Scan Text, you can change it to Start Scanning
- 4. Once you have dictated the new phrase, you can tap on the option **Done**.
- Now you can activate Siri and say the new phrase which in this example is *Start Scanning*. Siri should open *Scan Text* in this case if the configuration was saved.

**Note:** Even if you change the phrase, please note that the changes will only be reflected in the **Siri Shortcuts** app or when you activate Siri. In the Envision App you will always see the 10 default phrases above as the title.

### **3D Touch Shortcuts**

With these shortcuts, you can select the features that you want to have available when you hard press the Envision App icon on the home screen. You can add up to 4 features to be used as a shortcut. The Envision App has 4 predetermined **3D Touch Shortcuts**: Start reading instantly, which activates **Instant Text**, **Scan Text**, **Scan Barcode** and **Find Objects**. You can always edit these settings by following the next steps:

- 1. Open the Envision App and go to the **Settings** tab
- Go to the 3D Touch Shortcuts button and do a one-finger double-tap. A new screen will be opened.

3. On this screen you will first find your current 3D Touch Shortcuts, which you can delete by doing a one-finger double tap on the Remove button, or re-order them by doing a long press on the Re-order button and dragging the item to the position you want. Below, you will find more actions that you can always add new shortcuts, by doing a one-finger double tap on the add button. Keep in mind that you have a maximum of 4 3D Touch Shortcuts.

## 4.13 Data Sharing Consent

To further improve the accuracy and recognition capability of our AI, it is very valuable to have our users' data as feedback for our algorithm. For this purpose, we request your consent to share usage data with us in an anonymised form. The collected data will be temporarily stored on our secure server and discarded immediately after use. When you download the app for the first time, we ask for your approval, however, you can deactivate this consent at any time in the **Settings** tab of the Envision App.

## How to edit data sharing consent preferences?

To adjust this setting, follow the steps below:

- 1. Open the Envision App and go to the **Settings** tab.
- 2. Go to the **Data sharing** button. This will open a new screen where all the terms are explained.
- 3. Do a one-finger double tap on the **I consent** button if you agree to share data with us. Do a one-finger double tap on the **I do not consent** button if you don't agree to share data with us. For more information read our detailed **Privacy Policy**.

## 4.14 Check App Software Version

At Envision we are constantly bringing improvements to our users by app updates.

#### How to check the app software version?

You can always check your current app version on the **Settings** tab, by following these steps:

- 1. Open the Envision App and go to the **Settings** tab.
- Go to the **About Envision** button. This will open a new screen. At the top you will find the current version. On this page you will also find the following three options:
  - a. Visit Website
  - b. Privacy Policy
  - c. Terms of Use

When tapping on these options it will take you to your preferred browser.

# 5. Supported Languages

In this section, we list the languages Envision recognises, how to change voices on iOS smartphones, how to change your TTS on Android smartphones and the languages supported by VoiceOver and Talkback.

## **5.1 Languages Envision App Recognises**

This article contains the following information:

- 1. Supported Apple VoiceOver Languages
- 2. Supported Google Text to Speech TalkBack Languages
- 3. Languages Envision can read in Online Mode
- 4. Languages Envision can read in Offline Mode

Keep in mind that although the Envision App can read a wide list of languages, if you use a screen reader the language must be supported by your smartphone platform. Check below the list of languages supported by your smartphone's screen reader:

#### **Supported Apple VoiceOver Languages**

For the full list, see Languages Supported on iOS

#### Supported Google Text to Speech TalkBack Languages

For the full list, see Languages Supported by Google TTS

Now that you know which languages are supported by your <u>smartphone's screen</u> <u>reader</u>, please refer to the following lists for all the languages that the Envision App can read and recognise in online and offline mode:

#### Languages Envision App can read in Online Mode

- 1. Afrikaans
- 2. Albanian
- 3. Amharic
- 4. Ancient Greek
- 5. Arabic
- 6. Armenian
- 7. Assamese
- 8. Azerbaijani
- 9. Azerbaijani
- 10. Basque
- 11. Belorussian
- 12. Bengali
- 13. Bosnian
- 14. Bulgarian
- 15. Burmese
- 16. Catalan
- 17. Cebuano
- 18. Cherokee
- 19. Chinese

- 20. Croatian
- 21. Czech
- 22. Danish
- 23. Dhivehi
- 24. Dutch
- 25. Dzonkha
- 26. English
- 27. Esperanto
- 28. Estonian
- 29. Filipino
- 30. Finnish
- 31. French
- 32. Galician
- 33. Georgian
- 34. German
- 35. Greek
- 36. Gujarati
- 37. Haitian Creole
- 38. Hebrew
- 39. Hindi
- 40. Hungarian
- 41. Icelandic
- 42. Indonesian
- 43. Irish
- 44. Italian
- 45. Japanese
- 46. Javanese
- 47. Kannada
- 48. Kazakh
- 49. Khmer
- 50. Kirghiz
- 51. Korean
- 52. Lao
- 53. Latin
- 54. Latvian
- 55. Lithuanian
- 56. Macedonian

- 57. Malay
- 58. Malayalam
- 59. Maltese
- 60. Marathi
- 61. Mongolian
- 62. Nepali
- 63. Norwegian
- 64. Oriya
- 65. Pashto
- 66. Persian
- 67. Polish
- 68. Portuguese
- 69. Punjabi
- 70. Romanian
- 71. Russian
- 72. Russian
- 73. Sanskrit
- 74. Serbian
- 75. Sinhala
- 76. Slovak
- 77. Slovenian
- 78. Spanish
- 79. Swahili
- 80. Swedish
- 81. Syriac
- 82. Tamil
- 83. Telugu
- 84. Thai
- 85. Tibetan
- 86. Tigirinya
- 87. Turkish
- 88. Ukrainian
- 89. Urdu
- 90. Uzbek
- 91. Uzbek
- 92. Vietnamese
- 93. Welsh

95. Zulu

## Languages Envision App can read in Offline Mode

- 1. Acehnese
- 2. Acholi
- 3. Adangme
- 4. Afrikaans
- 5. Akan
- 6. Albanian
- 7. Algonquinian
- 8. Araucanian/Mapuche
- 9. Asturian
- 10. Athabaskan
- 11. Aymara
- 12. Azerbaijani
- 13. Balinese
- 14. Bambara
- 15. Bantu
- 16. Basque
- 17. Batak
- 18. Bemba
- 19. Bikol
- 20. Bislama
- 21. Bosnian
- 22. Breton
- 23. Catalan
- 24. Cebuano
- 25. Chinese
- 26. Choctaw
- 27. Cree
- 28. Creek
- 29. Croatian
- 30. Czech
- 31. Dakota
- 32. Danish
- 33. Duala
- 34. Dutch

- 35. Efik
- 36. English
- 37. Esperanto
- 38. Estonian
- 39. Ewe
- 40. Faroese
- 41. Fijian
- 42. Filipino
- 43. Finnish
- 44. Fon
- 45. French
- 46. Fulah
- 47.Ga
- 48. Galician
- 49. Ganda
- 50. Gayo
- 51. German
- 52. Gilbertese
- 53. Gothic
- 54. Guarani
- 55. Haitian Creole
- 56. Hausa
- 57. Hawaiian
- 58. Herero
- 59. Hiligaynon
- 60. Hungarian
- 61.lban
- 62. Icelandic
- 63. Igbo
- 64. Iloko
- 65. Indonesian
- 66. Irish
- 67. Italian
- 68. Japanese
- 69. Javanese
- 70. Kabyle
- 71. Kachin

- 72. Kalaallisut
- 73. Kamba
- 74. Kanuri
- 75. Khasi
- 76. Kikuyu
- 77. Kinyarwanda
- 78. Kongo
- 79. Korean
- 80. Kosraean
- 81. Kuanyama
- 82. Latin
- 83. Latvian
- 84. Lingala
- 85. Lithuanian
- 86. Low German
- 87. Lozi
- 88. Luba-Katanga
- 89. Luo
- 90. Madurese
- 91. Malagasy
- 92. Malay
- 93. Maltese
- 94. Mandingo
- 95. Manx
- 96. Maori
- 97. Marathi
- 98. Marshallese
- 99. Mende
- 100. Middle English
- 101. Middle High German
- 102. Minangkabau
- 103. Mohawk
- 104. Mongo
- 105. Nahuatl
- 106. Navajo
- 107. Ndonga
- 108. Nepali

- 109. Niuean
- 110. North Ndebele
- 111. Northern Sotho
- 112. Norwegian
- 113. Nyanja
- 114. Nyankole
- 115. Nyasa Tonga
- 116. Nzima
- 117. Occitan
- 118. Ojibwa
- 119. Old English
- 120. Old French
- 121. Old High German
- 122. Old Norse
- 123. Old Provencal
- 124. Ossetic
- 125. Pampanga
- 126. Pangasinan
- 127. Papiamento
- 128. Polish
- 129. Portuguese
- 130. Quechua
- 131. Romanian
- 132. Romansh
- 133. Romany
- 134. Rundi
- 135. Samoan
- 136. Sango
- 137. Sanskrit
- 138. Scots
- 139. Scottish Gaelic
- 140. Serbian
- 141. Shona
- 142. Slovak
- 143. Slovenian
- 144. Songhai
- 145. Southern Sotho

- 146. Spanish
- 147. Sundanese
- 148. Swahili
- 149. Swati
- 150. Swedish
- 151. Tahitian
- 152. Temne
- 153. Tongan
- 154. Tsonga
- 155. Tswana
- 156. Turkish
- 157. Turkmen
- 158. Uzbek
- 159. Venda
- 160. Vietnamese
- 161. Welsh
- 162. Western Frisian
- 163. Wolof
- 164. Xhosa
- 165. Yoruba
- 166. Zapotec
- 167. Zulu

**Note:** The above languages can be read offline. However, Envision App requires mobile data or Wi-Fi for general operation, even if the text processing is performed offline.

## 5.2 Languages Supported by Apple

Keep in mind that although Envision can read a wide list of languages, if you use a screen reader the language must be supported by **Apple** in order to be able to speak out the processed information on iOS smartphones. Kindly refer to the list below:

- 1. Arabic
- 2. Cantonese (Hong Kong)
- 3. Czech
- 4. Danish
- 5. Dutch
- 6. English (Australia)
- 7. English (Ireland)
- 8. English (South Africa)
- 9. English (UK)
- 10. English (US)
- 11. Finnish
- 12. Flemish (Belgium)
- 13. French (Canada)
- 14. French (France)
- 15. German
- 16. Greek
- 17. Hebrew
- 18. Hindi
- 19. Hungarian
- 20. Indonesian
- 21. Italian
- 22. Japanese
- 23. Korean
- 24. Mandarin (China Mainland)
- 25. Mandarin (Taiwan)
- 26. Norwegian
- 27. Polish
- 28. Portuguese
- 29. Portuguese (Brazil)
- 30. Romanian
- 31. Russian
- 32. Slovak

- 33. Spanish (Mexico)
- 34. Spanish (Spain)
- 35. Swedish
- 36. Thai
- 37. Turkish

Now that you know which languages are supported by Apple Text to Speech VoiceOver, please refer to the following list for all the languages that the Envision App can read and recognise in online and offline mode, <u>Languages Envision Recognises</u>

## 5.3 Languages Supported by Google TTS

Keep in mind that although Envision can read a wide list of languages, if you use a screen reader the language must be supported by Google TTS in order to be able to speak out the processed information on Android smartphones. Kindly refer to the list below:

- 1. Albanian
- 2. Arabic
- 3. Bangla (Bangladesh)
- 4. Bangla (India)
- 5. Bosnian
- 6. Cantonese (Hong Kong)
- 7. Catalan
- 8. Chinese (China)
- 9. Chinese (Taiwan)
- 10. Croatian
- 11. Czech (Czechia)
- 12. Danish (Denmark)
- 13. Dutch (Netherlands)
- 14. English (Australia)
- 15. English (India)
- 16. English (Nigeria)
- 17. English (United Kingdom)
- 18. English (United States)
- 19. Estonian (Estonia)
- 20. Filipino (Philippines)
- 21. Finnish (Finland)

- 22. French (Canada)
- 23. French (France)
- 24. German (Germany)
- 25. Greek (Greece)
- 26. Gujarati (India)
- 27. Hindi (India)
- 28. Hungarian (Hungary)
- 29. Indonesian (Indonesia)
- 30. Italian (Italy)
- 31. Japanese (Japan)
- 32. Javanese (Indonesia)
- 33. Kannada (India)
- 34. Khmer (Cambodia)
- 35. Korean (South Korea)
- 36. Kurdish
- 37. Latin
- 38. Malay (Malaysia)
- 39. Malayalam (India)
- 40. Marathi (India)
- 41. Nepali (Nepal)
- 42. Norwegian Bokmål (Norway)
- 43. Polish (Poland)
- 44. Portuguese (Brazil)
- 45. Portuguese (Portugal)
- 46. Romanian (Romania)
- 47. Russian (Russia)
- 48. Serbian
- 49. Sinhala (Sri Lanka)
- 50. Slovak (Slovakia)
- 51. Spanish (Spain)
- 52. Spanish (United States)
- 53. Sundanese (Indonesia)
- 54. Swahili
- 55. Swedish (Sweden)
- 56. Tamil (India)
- 57. Telugu (India)
- 58. Thai (Thailand)
- 59. Turkish (Turkey)
- 60. Ukrainian (Ukraine)

- 61. Urdu (Pakistan)
- 62. Vietnamese (Vietnam)
- 63. Welsh

Now that you know which languages are supported by Apple Text to Speech VoiceOver, please refer to the following list for all the languages that the Envision App can read and recognise in online and offline mode, <u>Languages Envision Recognises</u>

# **5.4 Languages Supported For Local Envision App Translations**

Having users from different parts of the world, and speaking different languages doesn't stop us. Help us make Envision accessible to everyone in their native language. We use the crowdsourcing platform **Crowdin** to translate our strings. If you wish to support us, you can log in to Envision's projects and translate the text from **English** into your language. The languages you can assist in translating for **Envision App** are as follows:

- 1. Albanian (sq)
- 2. Arabic (ar)
- 3. Bengali (bn)
- 4. Bulgarian (bg)
- 5. Chinese Simplified (zh-CN)
- 6. Chinese Traditional, Hong Kong (zh-HK)
- 7. Croatian (hr)
- 8. Czech (cs)
- 9. Danish (da)
- 10. Dutch (nl)
- 11. Estonian (et)
- 12. Finnish (fi)
- 13. French (fr)
- 14. Georgian (ka)
- 15. German (de)
- 16. Greek (el)
- 17. Hebrew (he)
- 18. Hindi (hi)

- 19. Indonesian (id)
- 20. Italian (it)
- 21. Japanese (ja)
- 22. Korean (ko)
- 23. Lithuanian (lt)
- 24. Malayalam (ml)
- 25. Nepali (ne)
- 26. Norwegian (no)
- 27. Persian (fa)
- 28. Polish (pl)
- 29. Portuguese (pt)
- 30. Portuguese, Brazilian (pt-BR)
- 31. Romanian (ro)
- 32. Russian (ru)
- 33. Serbian, Cyrillic (sr-Cyrl)
- 34. Sinhala (si)
- 35. Slovak (sk)
- 36. Slovenian (sl)
- 37. Spanish (es)
- 38. Swedish (sv)
- 39. Thai (th)
- 40. Turkish (tr)
- 41. Ukrainian (uk)
- 42. Urdu, India (ur-IN)
- 43. Vietnamese (vi)

## How to start supporting translations?

To start translating in Crowdin, follow these steps:

- 1. Tap here to sign up and log in.
- 2. Tap on a project that you would like to translate: Envision App, Envision Glasses, or Envision Companion 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! 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.

## Why is my language not on the list?

Would you like to translate it into your native language, yet it is not yet available on Crowdin? Please send your language request to **Envision's Customer Success Team** at <a href="mailto:support@letsenvision.com">support@letsenvision.com</a>

## 5.5 Change Voices on iOS

Within the **Settings** tab of the Envision App, you can adjust the voice of the screen reader for the app. Speech-related settings are only for **non-VoiceOver** speech, like results on **Describe Scene**, **Instant Text** or **Scan Text**. This will not affect the VoiceOver speech. There are two ways to change the speaking rate. You can do this directly on the **Reader Preferences** on the **Reader** of **Scan Text**, or on the **Settings** tab. This article contains the following:

- 1. How to change Voices from the Reader Preferences tab?
- 2. How to change Voices from the Setting tab?

## How to change voices from the Reader Preferences tab?

If you have already scanned a document and you wish to adjust the speaking rate, you can do it by following the steps below:

- 1. Go to the **Reader Settings** button and do a one-finger double-tap. A pop up window will appear.
- 2. On this pop up, go to the **Voices** button and do a one-finger double-tap. This will take you to a new window with a list of languages where you can choose the voice of your preference.

#### How to change voices from the Setting tab?

- 1. Open the Envision App and go to the **Settings** tab.
- Go to the **Speech** button and do a one-finger double tap. A new screen will open.
- 3. On this screen go to **Voices** and do a one-finger double-tap. This will take you to a new window with a list of languages where you can choose the voice of your preference.

You can also adjust the speed rate for the speech related to the app. For more information, see <u>Change Speaking Rate</u>

## 5.6 Changes TTS Language in Android

Within the **Settings** tab of the Envision App, you can adjust the voice of the screen reader for the app. You can do this directly on the **Reader Preferences** tab on the **Reader** of **Scan Text**, or on the **Settings** tab. This article contains the following:

- 1. How to change TTS Language from the Reader Preferences tab?
- 2. How to change TTS Language from the Settings tab?

# How to change TTS Language from the Reader Preferences tab?

If you have already scanned a document and you wish to change the TTS language, you can do it by following the steps below:

- 1. Go to the **Reader Settings** button and do a one-finger double-tap. A new screen will appear.
- 2. On this pop-up, go to the **Text to Speech** button and do a one-finger double tap. A new screen will appear.
- On this new screen you can change your **Text to Speech** engine or to be redirected to the **Text to Speech** general settings on your smartphone to customize it.

## How to change TTS Language from the Settings tab?

- 1. Open the Envision App and go to the **Settings** tab.
- 2. Go to the **Text To Speech** button and do a one-finger double tap. A new screen will open.
- 3. On this screen, you can change the **Text To Speech** engine or be redirected to the **Text To Speech** general settings on your smartphone to customize it.

You can also adjust the speed rate for the speech related to the app. For more information, see <u>Change Audio</u>

# 6. App Frequently Asked Questions

In this section, you will find the most frequently asked questions about Envision App with their answers.

# 6.1 Do I need an Internet connection or mobile data to use all the features of the Envision App?

Envision App requires mobile data or Wi-Fi for general operation on Android smartphones, even if the features are offline. For iOS smartphones, mobile data or Wi-Fi is not required for general operation. If you wish to use an online feature, you will be notified with an alert that you need an Internet connection.

# 6.2 What are the minimum device requirements to use the Envision App?

There are no requirements for your device. We rely heavily on cloud services for processing information in the Envision App. Keep in mind that Envision App requires **mobile data** or **Wi-Fi** for general operation, even if the features are offline.

Please note that in order to download the Envision App your smartphone requires a compatible software version.

#### **Supported Platform Versions**

- App Store: We currently support iOS 15 and above.
- Play Store: We currently support Android Version 7 Nougat and above.

For more information, see <u>Download and Install Envision App</u>

## 6.3 What happened to existing Envision Subscribers?

It's because of you and your support of Envision that we can now help hundreds and thousands of people around the world have easier access to Envision and to independence. They, like you, can now perceive possibility as never before. We hope that you can take pride in your contribution to this significant milestone, that supports our mission to make Envision as accessible as possible. To learn more about the

changes we have made to the price of Envision Glasses and the Envision App, please read our blog <u>Creating a more accessible Envision</u>.

#### What does the Envision App going free mean to you?

Firstly, be assured that you will continue to receive the same great features, product updates, and experiences that you have come to love from Envision. Secondly, If you are someone who has the means and would like to continue supporting the app directly, you can choose to pay us whatever amount you deem fair. For more information, read our blog Envision App, now free for everyone.

On behalf of our entire team and those around the world who can now use Envision to live life a little more to the full because of you – an early subscriber of the **Envision App.** We've created something special to say thank you.

#### You are now an Envision Pioneer

Created exclusively for you and our other loyal Envision supporters, you are now a recognized Envision Pioneer. Members of this exclusive community can enjoy special privileges, discounts, offers, and much more. Here are just a few of what you can expect to receive from us over the next few months.

- 10% discount on all Envision Products Effective immediately when you
  check out on the Envision Store. To receive your personalized discount code
  simply email us at support@letsenvision.com
- Priority Customer Support Go to the front of the line when you email us at support@letsenvision.com.
- The Pioneer Hall of Fame In recognition for the support you have given us and that you are now giving to others, your name and legacy will forever be honoured on our app and website.
- Pioneer Rewards Display your Pioneer status with pride. Coming soon are special badges, icons, and sounds to add to your Envision App, and exclusive access to your personal impact metrics.
- Pioneer News Keep up to date with membership activities, offers, and opportunities. Be the first to hear about new Envision features and products.

There will be more rewards and perks that will be announced in the coming months, so stay tuned for more updates from us on that. Again, on behalf of everyone at Envision,

thank you for being such an important part of our community and our future.

## 6.4 Is the Envision App free?

The Envision App on iOS and Android has become completely free since version update 3.0 released on July 25th 2022. We are still the same Envision you have come to know and trust but with a better-defined purpose. Join us and let's create a more accessible world together.

To download Envision App, see <u>Download and Install Envision App</u>

## 6.5 What information is tied to my Envision Account?

For Envision App: Face data is the only information that is attached to your Envision account and shared between devices, apart from the information on the <u>Account</u> Details tab.

For Envision Glasses and Envision App: Ally List and Face data are the only information that is attached to your Envision account and shared between devices, apart from the information in the Account Details tab.

## 6.6 How can I change my email address in the Envision App?

The only possible way to change your email address is to log out of your current account and log in with your other preferred email address.

To log out of your account, please follow the steps below:

- 1. Open the **Envision App**, and go to the **Settings** tab.
- Select Account Details and tap on the Logout button.
- Once selected, you will be able to Log In with your other preferred email address.

## 6.7 How is Envision App different from Seeing AI?

According to feedback from users, there are certain differences that stand out. Some of the differences are as follows:

- 1. Better accuracy of results, especially with text recognition.
- 2. Lower latency and faster processing.
- 3. Localized application available in more than 30 languages.
- 4. Capability to read over 60 languages including Latin-based languages.
- 5. Easier to use and more intuitive design.
- 6. Deeper engagement with the community, with active social media and customer support.
- 7. More features like **Find Objects, PDF Recognition, Multiple-Pages Text Recognition, Magnifier** and more.
- 8. More active development and weekly update cycle.
- 9. Available on iOS and Android.
- 10. Envision App has the option to be accompanied by the Envision Glasses, which provide the Envision software on a wearable device.

## 6.8 How far can Envision recognise text?

When it comes to scanning a document with the Envision App, it totally depends on the size of the text. If it is large, like a road sign, the camera can detect it from far away. However, if it is small, like a business card, the camera needs to be close to the text. As a rule of thumb, if you are trying to read the text of an A4 document, place the document on a table, stand up and bring the phone to chest height pointing perpendicularly downwards. This should ensure, more or less, that the entire page is in the frame.

## 6.9 What is the file size limit in Envision App?

The size of the image depends on the device and the complexity of the image, ranging from 2 MB to 10 MB. If you wish to upload a high-quality image larger than 10 MB, the app will simply compress it and upload it for further processing. As for PDF files, they can be of any size, as we don't have a specific limit.

## 7. 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 <a href="mailto:support@letsenvision.com">support@letsenvision.com</a>, 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 and 07:00-15:00 Central Standard Time.



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