



Presents
LyriQ AI Reader



User Manual

Rev 1.0

1. Introduction

LyriQ AI is an electronic text-to-speech device for people who are blind and for those with a visual impairment. Enjoy reading any printed material, such as letters, newspapers, and books, and hear them read aloud in a natural sounding voice.

2. What's in the box

- LyriQ AI device
- Power supply / charger
- Keypad (optional) and keypad USB charging cable

3. Unpacking and powering up LyriQ

1. Place the LyriQ AI onto a flat surface. Open the camera arm by lifting it up.
2. Plug the power adapter into an outlet, and plug the other end into the LyriQ AI power port located on the left side of the base.
3. Press and hold power button located on the left side of the base for 3 seconds. You will hear some beeps, and soon after, the phrase "Place your document."

To power LyriQ AI off, press and hold the power button for 3 seconds.

4. How to read with LyriQ AI

With the text facing up, place your document onto the base and make sure it is completely still. If needed, place the document towards an edge of the LyriQ AI to ensure that the text is not being blocked by your hands. Once the document has been placed, you will hear the shutter sound that a camera makes, and in a few seconds, LyriQ AI will begin reading your document aloud.

Connecting to the Internet

In order to use LyriQ Ai features, the LyriQ Ai device should be connected to the internet through a WiFi router.

There are two ways to connect LyriQ Ai to the home WiFi internet router:

Connecting Using QR Code on a Smartphone

In order to connect using the QR code on a smartphone method you need to know the WiFi network name (SSID) and the password.

1. Open the internet browser on your smartphone and go to www.zyrlo.com/qrgen
2. Fill out the form with the network name (SSID), the password (key) and choose the type of encryption (most routers utilize WPA encryption).
3. Press Generate QR Code button.
4. Go to the LyriQ Ai *menu* (*BACK + FASTER buttons*) and select the option *WiFi*
5. Select *Scan QR code* option and place the phone on the base of the LyriQ Ai, QR code facing upwards

The LyriQ Ai will read the QR code and will connect to the network.

Connecting using WPS

1. Locate a WPA button on the router
2. Go to the LyriQ Ai *menu* and select the option *WiFi*
3. Select *Connect with WPS*
4. Select the name of the network
5. Press the WPA button on the router

The LyriQ Ai will connect to the router without a password

Connecting New Device

When device is new and has never been connected to WiFi, long press PAUSE button, and Hark Ai will prompt to either place the phone with QR code or press WPS button

Using LyriQ Ai Advanced Recognition

Barcode Recognition

Using the barcode recognition feature of the LyriQ Ai a blind person can easily distinguish between a can of soup and a can of tomato sauce even though both have the same shape, weight and feel.

In order to scan the barcode with LyriQ Ai, place the product in the middle of the LyriQ Ai base and rotate it until the barcode is facing upwards. Once LyriQ Ai detects the barcode, it will make an chime audio indication that barcode is close to the top. Keep rotating, very slowly. Once the whole barcode is in the field of view of the LyriQ Ai camera, you will hear a beep and LyriQ Ai will say out loud all of the information available for that product.

The information about the product may include: name, brand, brief or detailed description, nutrition facts, ingredients, etc.

Advanced Artificial Intelligence Processing

Whenever the user would like the LyriQ Ai to prioritize important details of a document at hand, the user can invoke advanced Ai processing.

Once the document is placed on the LyriQ Ai base and the reading starts, press and hold the Pause button. You will hear a chime and then a series of beeps. Beeps indicate that the LyriQ Ai had sent the document image to the online server and is waiting for the result of advanced Ai processing. Once the LyriQ Ai receives the result of advanced Ai processing back, it will read it aloud.

Advanced Ai Processing Use Cases:

- **Bills and Receipts**

LyriQ reads all printed text that is placed on its base. However, when you have a receipt or a bill, often all you need to know is just a few important details, which are usually found at the bottom and end up being read last.

LyriQ Ai reads the document summary, which may include the name of the vendor, total amount, and the date.

- **Handwriting Recognition**

LyriQ A will read handwriting, for example, the personal message in a greeting card, hand written recipes, or a hand-written note or receipt.

- **Language Translation**

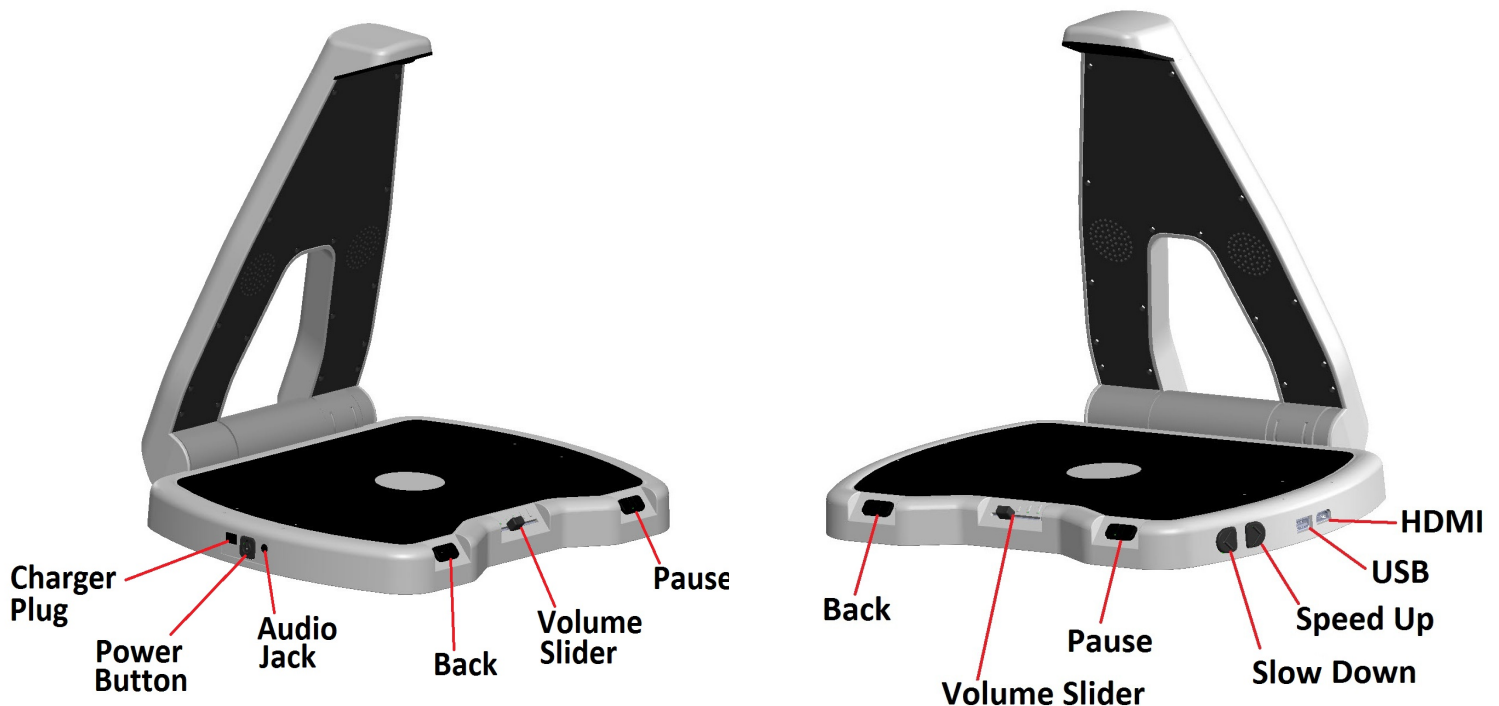
LyriQ Ai can translate from nearly any language to the language currently selected on the LyriQ Ai device.

5. Controlling LyriQ AI

There are 3 methods to control LyriQ AI:

1. Base Buttons
2. Hand Gesture Controls
3. Keypad (if optional keypad is included)

5.1. Base Buttons Control



LyriQ AI has four control buttons on the base

- **Pause/resume button** *located on the front right side of the LyriQ AI base.* Press this button while the LyriQ AI is reading to pause reading. Press it again to resume reading.
- **Back button** *located on the front left side of the LyriQ AI base.* Press this button to repeat the previous sentence. Each press takes the reader back one sentence. Press it once to repeat the previous sentence, twice to go back two sentences and so on.
- **Reading speed buttons** *shaped as two semi-circles located on the right side of the base.* The slow down button is located closer to the front of the device. Press the slow down button to read slower. The speed up button, directly next to the slow down button, is closer to the back of the device. Press the speed up button to read faster.
- **Volume control slider** *located in the front center of the device.* Move the slider to the left to decrease the volume, and to the right to increase the volume.

5.2. *Hand gesture controls*

Hand gesture is the easiest and most simple way to control LyriQ AI. Hand gesture controls are disabled by default. To enable, press the pause/resume button for 3 seconds.

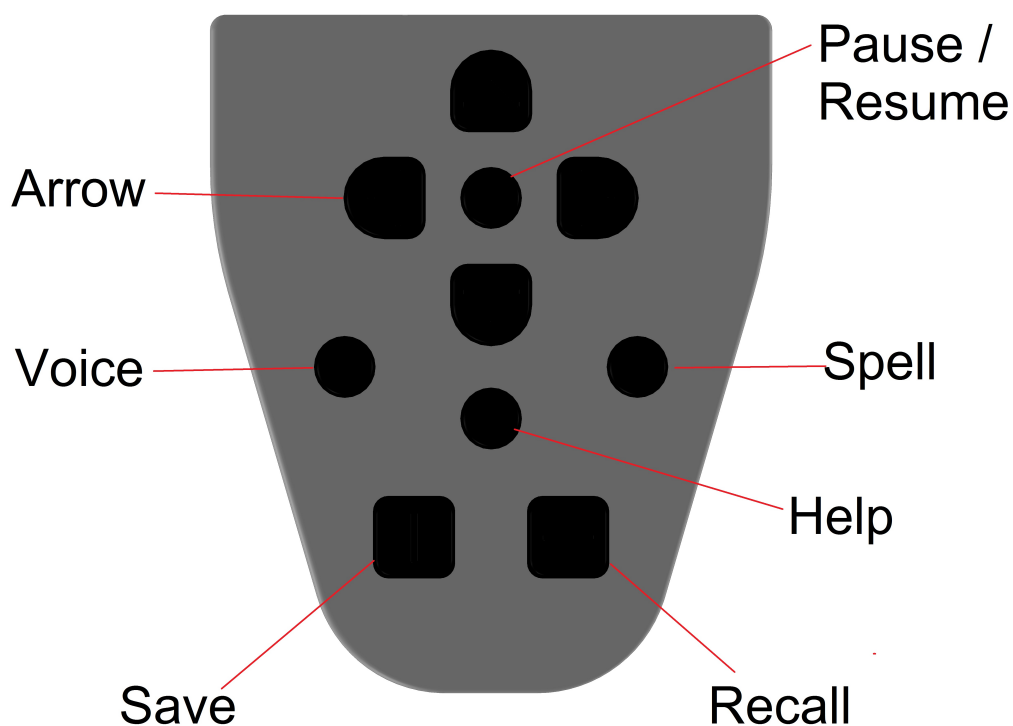
To pause or resume reading: move your hand slowly just above the document from the left to the right.

To go back to a previous sentence: move your hand slowly just above the document from the right to the left. Repeat multiple times to reach desired sentence.

Please note that the above hand gestures work only when document is on the LyriQ AI base.

5.3. *Keypad controls*

If **optional keypad** (sold separately) is included, LyriQ AI can be controlled by the keypad.



Help Button: This is the round button located in the center of the keypad. Press the help button together with any other button to hear a description of the button and its function. Press the button on its own to hear general help information.

Pause / Resume Button: This is the round button located on the top of the keypad in the center of the arrow keys. This button will pause and resume reading.

Arrow Buttons: These are the four moon-shaped buttons located around Pause/Resume button.

Spell Button: This is the round button located to the right of the help button. Press the spell button to hear the spelling of the current word.

Voice Button: This is the round button located to the left of the help button. Press the voice button to change voice or language.

Save Button: This is the square button located on the lower left side of the keypad. Hold down the save button and one of the arrow buttons at the same time and the device will save the image and say "image saved." Up to four pages can be saved with one page designated to each arrow button.

Recall Button: This is the square button located on the lower right side of the keypad. Hold down the recall button and press one of the arrow buttons to read a previously saved page. The device will say "reading image" and then read the saved image.

Note: Keypad automatically turns off when it is attached behind LyriQ camera arm. Keep keypad attached in place when not in use. Remove keypad before using.

6. Summary of commands

Command	Keys on device	Keys on keypad
Pause or resume reading	Pause/resume button	Pause/resume button
Go back one sentence	Back button	See using keypad section
Increase reading speed	Speed up button	
Decrease reading speed	Slow down button	
Enable/disable gestures	Pause/resume button long press	
Switch voice from speaker to paired Bluetooth headset / hearing aid (Bluetooth LyriQ only)	Press pause/resume button and speed up button together for 3 seconds	Press and hold voice and arrow up buttons for 3 seconds
Switch voice/language (alternate through all languages installed). See Note1.	Press pause/resume button and slow down button together for 3 seconds	Press voice button
Hear general help		Press and hold help button
Hear help of any button on the keypad		Press and hold help button, then press the button to hear help
Enable/disable read through columns. See Note2.	Press speed up and slow down buttons together prior to placing a document	Press arrow left and arrow right buttons together
Spell current word		Press and hold spell button
Save current page into one of four memory slots		Press save button and one of arrow buttons.
Read page saved in one of four memory slots		Press recall button and one of arrow buttons.
Enter menu	Press back button and speed up button together for 3 seconds	
Hear battery level (if battery is installed)	Press back button for 3 seconds	

Note1. When switching language you will hear the beep, then announcement of a new language. If page OCR is not complete, language cannot be switched until OCR finished. In that case you will hear beep and not the announcement.

Note2. Reading through columns is enabled for the next scanned page only.

7. Using keypad navigation buttons

Optional keypad can be used for advanced navigation. Use arrow up and arrow down keys to select whether you want to navigate by character, word, sentence or paragraph.

Use the left and right arrow buttons to go backward and forward respectively.

8. Menu navigation

Command	Key on device
Next menu item	Slow down button
Previous menu item	Speed up button
Select item	Pause/resume button
Go back to previous level/exit	Back button

9. Menu

Press and hold back and speed up buttons together for 3 seconds to enter menu. The menu items are:

1. Bluetooth
 - 1.1.Scan for devices (or paired device is device is paired)
 - 1.2.Exit
2. Settings
 - 2.1.Languages
 - 2.2.Flash
3. Info
4. Exit

10. Bluetooth

If equipped with optional Bluetooth module, LyriQ AI can output audio to Bluetooth wireless headsets. In order to use a wireless headset, it has to be paired with LyriQ AI. In order to pair:

- Enter the main menu.
- Select **Bluetooth**.
- Enable pairing mode on your headset.
- Select **Scan for devices**. LyriQ AI will start searching for devices, and after 10-20 seconds will list found devices.
- Use speed up/down keys to select the device you want to pair with. Press pause/resume to pair.

11. Saving books with LyriQ AI

LyriQ allows you to save books or multi-page documents on a USB flash drive. In order to scan a book:

- Plug in USB flash drive to LyriQ AI USB port located on the right side of the base.
- Wait until “USB storage detected” announcement.
- Place first page of the book on LyriQ AI base. Wait until “Page saved” announcement.
- Repeat previous step for all the pages.

After all desired pages are scanned, press Pause/Resume button. LyriQ AI will convert all scanned pages to text and MP3.

For further information please contact us at :

1-800-364-1608

or visit us for our other products to assist at:

www.magnifyingamerica.com