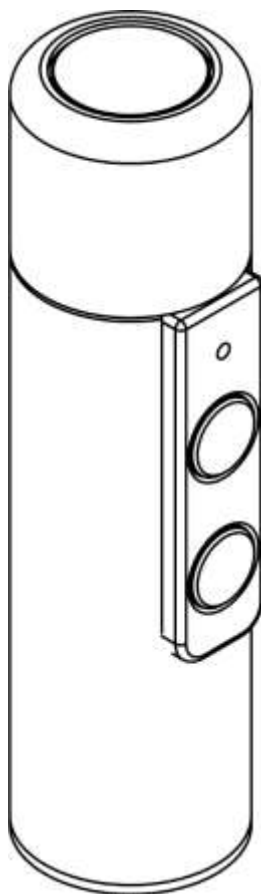


Labex™ Harmony EL

USER MANUAL



OVERVIEW

1. What is Labex Harmony

Labex Harmony is a digital electrolarynx device. It is specially designed to help laryngectomees talk. Its main feature is the two configurable talk buttons.

Labex Harmony is a CLASS I medical device.

General principle of operation for all models electrolarynxes manufactured by Labex Trade Ltd.:

The digital electrolarynx produces mechanical vibrations with a low sound frequency between 60-195 Hz. Applied to the neck, these vibrations create trembling in the oral cavity similar to the human voice.

The combination of starting and stopping sound vibrations and oral articulation creates comprehensible human speech.

2. In the box

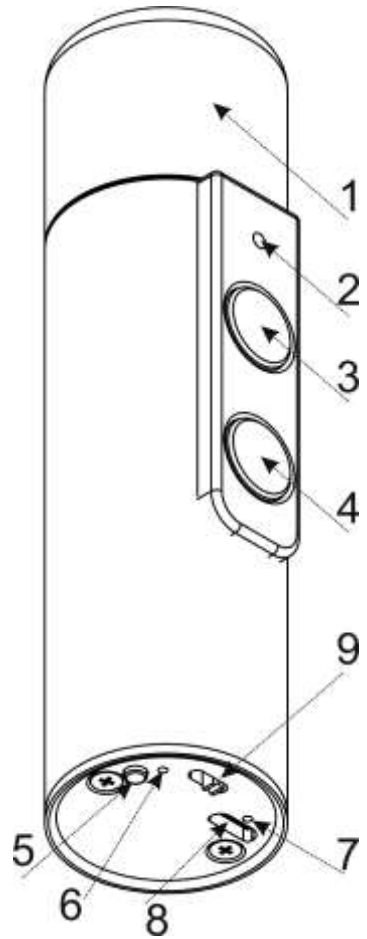
In the box, you will find everything you need to start using the device:

- Labex Harmony electrolarynx device;
- USB charging cable;
- USB charger 5V 2A;
- „Labex“ lanyard;
- User manual;
- Warranty card.

3. Parts and buttons

Labex Harmony consists of several main components:

1. Top cap – The part which you put on your neck.
2. Indicator LED – Indicates battery charge
3. TALK button 1 – Press the button and talk. It can be configured with its own unique volume and pitch.
4. TALK button 2 – Press the button and talk. It can be configured with its own unique volume and pitch.
5. SETTINGS button – Used for changing settings.
6. Red LED – Indicates when the battery fully charged.
7. Green LED Indicates when the battery is charging.
8. USB port – Used to charge the device with the included USB cable.
9. ON/OFF switch – Used to turn the device ON or OFF.



GETTING STARTED

4. Basic use

The device is partially charged by the manufacturer. You need to fully charge the device before starting usage.

Charging the device is performed when the LED on the panel turns red when one of the two voice buttons is pressed. Charging is carried out with the charger included in the box. Plug the provided USB cable into the USB port of the device, the other end of the cable connects to the charger and the charger plugs into the socket. The green and red LEDs on the bottom of the device will turn on. When the red light goes out, the device is fully charged.

Note: The device will not work while charging. This is a safety measure that protects the device from damage.

5. After charging the device, it must be turned on.

To do this, use the ON / OFF slider switch on the bottom of the device. The multicolor LED lights up green briefly. Press the Talk button 1 or Talk button 2 to start the sound.

After you get the device out of the box, you need to turn it on. Use the ON/OFF switch at the bottom of the device to turn the device on. The LED will light up in green for a short time. When you press TALK button 1, or TALK button 2 while the top cap is pressed against your neck, you can start talking.

6. Finding the sweet spot

A sweet spot is a place where you feel the sound from the electrolarynx transmits through your neck tissue and your oral cavity with the most clarity. The easiest way to find your sweet spot is to place the electrolarynx on your neck in different positions and actuate the sound. What you are looking for is the place on your neck, which transmits sound the best. While looking for a sweet spot, it is crucial that you press it firmly against your neck tissue, so the sound transmits through your tissue and out your oral cavity. **Take your time finding your sweet spot** this is the most crucial part of learning how to use an electrolarynx. Finding just the right place will set you up for success.

7. First Words

After you have pinpointed the desired spot, you can start making some basic sounds. Focus on single vowels first. Over-articulate every sound with your mouth until you feel comfortable with all the vowels. After that, you can start practicing short words. Slowly work your way up to sentences and conversation.

For a more detailed guide, please check our article:

<https://labextrade.com/tips-for-using-electrolarynx/>

8. Expectations

Learning to speak with an electrolarynx device is not easy. Think of it as learning to play a musical instrument. It will take time, practice, and patience. In some cases, talking can be achieved in a month, in other cases it can take only 3 days.

SETTINGS

9. How to change the volume

You can adjust the volume of each button individually. To do so, follow this procedure:

1. Press and hold the talk button you wish to adjust the volume of (TALK button 1 or TALK button 2).
2. While holding your desired talk button, press and hold the SETTINGS button. The LED should start glowing in red.
3. Keep both buttons pressed.
4. After a few seconds, the device will start emitting sound on its own. Release all buttons. The device is now in "Volume setup mode."
5. You can now hold TALK button 1 to increase the volume up, or TALK button 2 to decrease the volume down.

NOTE: The LED will blink in red if you are at the maximum or minimum volume. Otherwise, it will blink in green.

6. After you reached your desired volume, press the SETTINGS button to confirm, the device will automatically save your desired volume.

NOTE: You can choose different volume for each TALK button.

10. How to change the pitch

You can adjust the pitch of each button individually. To do so, follow this procedure:

1. Press and hold the SETTINGS button.
2. While holding the SETTINGS button, press and hold the TALK button, you wish to change the pitch of (TALK button 1 or TALK button 2).
3. Keep both buttons pressed. The LED should start glowing red.
4. After a few seconds, the device will start buzzing on its own. Release all buttons. The device is now in "Pitch setup mode."
5. You can now hold TALK button 1 to increase the pitch up, or TALK button 2 to decrease the pitch down.

NOTE: The LED will blink red if you are at the maximum or minimum pitch. Otherwise, it will blink green.

6. After you reached your desired volume, press the SETTINGS button to confirm, the device will automatically save your desired pitch.

NOTE: You can choose a different pitch for each TALK button.

11. How to reset all settings to factory defaults

If you feel you want to revert the device to its factory default volume & pitch, follow these steps.

1. Press and hold all the buttons at the same time (TALK button 1, TALK button 2 and SETTINGS buttons).
2. The LED will start blinking in blue. Continue to hold all the buttons until the LED turns from blue to white.
3. When the LED turns solid white, release all the buttons and wait 3-4 seconds. All the settings have been reset to factory default.

Check our website for video tutorials.

BATTERY

12. Check the battery level

While the device is turned ON, press and hold the SETTINGS button. The Indicator LED will light up.

GREEN – Battery is charged (50% - 100%)

YELLOW – Battery is below half (25% - 50%)

RED – Battery is below 25%. The LED will continue to glow in red after each button press, to remind you to charge your device.

When the battery gets critically low, the device will stop producing sound, and the LED will blink in red after each press of the talk buttons. This will ensure that there will be no damage to the battery and will keep the battery healthy.

NOTE: It is recommended to charge your device when the indicator LED lights up in RED. This will make keep the battery life and you will have plenty of charge, and the battery stays healthy.

Note: If you find that the battery in your device can not hold a charge for more than one hour of use, there is a possibility that the integrated battery is near the end of its life cycle. If this happens during or outside the included warranty period, please contact your local distributor or Labex Trade Ltd. at <https://labextrade.com/contacts> or at support@labextrade.com.

13. Charging the battery

To charge the device plug the provided USB cable into the USB port at the bottom of the device. Plug the other end of the provided USB cable into the provided USB charger and plug the charger into an electrical socket. The Green and Red LEDs at the bottom of the device should light up. Your device has finished charging when the Red LED, at the bottom of the device, turns off.

Keep in mind that the device will not work while it is charging. This is a safety measure to prevent any damage to the device.

CARING FOR YOUR DEVICE

14. Cleaning the device

Since the device is in constant contact with skin and other surfaces, it should be cleaned at least once every 24 hours. For the best hygiene practices, the following procedure should be followed:

1. Clean the outside surfaces of the device with a slightly wet soft microfiber cloth.
2. After cleaning all the surfaces, you can disinfect the device by applying a small amount of disinfectant gel or alcohol. Alternatively, alcohol wipes can be used.
3. Wipe the device with a soft microfiber cloth again.

15. Contact information

LABEX TRADE LTD.

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After-sales support:	support@labextrade.com
Website questions:	admin@labextrade.com
For more information visit	https://labextrade.com

16. Technical specifications

General:	
Adjustable tone	Yes
Adjustable volume	Yes
Frequency range	70 - 165 Hz
Volume range	60-83 dB
Speech buttons	2
Setting button	1
Speech time	Up to 30 h.
Charging time from 0 to 45%	60 min with Labex charger
Charging time from 0 to 100%	3h 15min with Labex charger
Connector	Micro USB
USB Charging	Battery Charging Specification 1.2
Input power:	5V 1.5A max.

Physical:	
Diameter x Length	Ø 32 x 123 mm
Weight	188 g
Body material	Premium Polished Stainless Steel
Top cap material	ABS plastic
Battery:	
Capacity	3400 mAh
Battery type	3.7V Li-Ion
Battery model	Custom Pack
Cell manufacturer	LG Chemical
Battery life	More than 3 Years
Protection	Smart electronics

INFORMATION

17. Warnings

- **Do not submerge the device underwater.** Do not wash the device under running water. This will potentially damage the device.
- **Do not try to disassemble** the device under any circumstances. This will permanently void your warranty.
- **Do not use any third-party** chargers or charging cables. Use the original ones provided in the box. Using any other charging equipment could potentially damage the battery or the device.
- Do not insert any part of the electrolarynx or any accessories into the stoma.
- Do not burn or physically damage the battery.
- Do not short-circuit a cell or battery.
- Do not store cells or batteries haphazardly in a pocket, purse, box or drawer where they may short-circuit each other or be short-circuited by conductive materials such as coins or keys.
- The device contains a strong magnet that may interfere with pacemakers or other implantable devices. Consult with your physician before use.

Please note that due to the nature of the electrolarynxes and the principle of their use, the device is not intended to be used by multiple people, shared use, and second-hand use. Due to the contact of the device to the user's neck, stoma, or other cavities - the device is **for personal use only!**

Once a person has used the device, it should not be used by anyone else. Because of this fact, the included warranty provided by Labex Trade Ltd. is **non-transferable**.

18. Safe storage:

- Store in a dark and dry place.
- Store the device and its accessories in its original box.
- Store in temperatures between -20°C to +45°C.

19.Warranty

All Labex devices come with a limited 2-year warranty from the date of purchase. The warranty period of a replacement electrolarynx or part lasts as long as the remaining warranty of the original electrolarynx.

This Limited Warranty covers any defects in material or workmanship under normal use according to the User Manual during the Warranty Period.

Trying to open or repair the device; causing extensive shock damage (dropping it, hitting it against other objects, etc.); or liquid damaging it (submerging in water or other chemicals) will void your warranty.

During the Warranty Period, Labex Trade Ltd. will repair or replace, at no charge, products or parts of a product that prove defective because of improper material or workmanship, under normal use and maintenance. This Limited Warranty is not transferable.

This Limited Warranty does not cover any problem that is caused by:

- Conditions, malfunctions or damage not resulting from defects in material or workmanship.
- Conditions, malfunctions or damage resulting from negligence, improper maintenance or modification.
- Damaged or destroyed by natural causes including but not limited to lightning, flood, or another natural disaster - Theft or loss of the EL.

Shipping charges as well as the risk of loss or damage to the electrolarynx while in transit to Labex Trade Ltd are taken care of by the customer. The back shipping is covered by the Company.

Please read the warranty card. To learn more about the Labex warranty, please visit <https://labextrade.com/warranty-policy/>

If you have any problems with your device, contact your distributor or contact us directly <https://labextrade.com/contacts/>

20.Information on Disposal for Users of WEEE:

This symbol on the product box and/or accompanying documents means that used electrical and electronic equipment (WEEE) should not be mixed with general household waste. For proper treatment, recovery, and recycling, please take this product(s) to designated collection points where it will be accepted free of charge. Alternatively, in some countries, you may be able to return your products to your local retailer upon the purchase of an equivalent new product. Disposing of this product correctly will help save valuable resources and prevent any potential negative effects on human health and the environment, which could otherwise arise from inappropriate waste handling. Please contact your local authority for further details of your nearest designated collection point. Penalties may be applicable for incorrect disposal of this waste, in accordance with your national legislation.

For professional users in the European Union, if you wish to discard electrical and electronic equipment (EEE), please contact your dealer or supplier for further information.

For disposal in countries outside of the European Union: This symbol is only valid in the European Union (EU). If you wish to discard this product, please contact your local authorities or dealer and ask for the correct method of disposal.