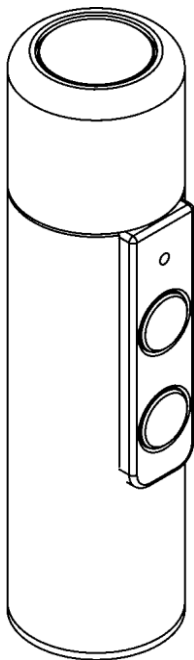


LABEX™ HARMONY ELECTROLARYNX

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 individually configurable talk buttons.

Labex Harmony is a CLASS I medical device.

General principle of operation for all models electrolarynges 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 compensating for the energy generated from the lungs.

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

2. In the box

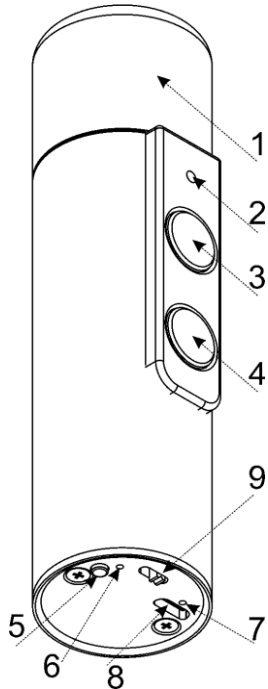
In the box, you will find everything you need to start using the device:

- Labex Harmony electrolarynx device;
- USB charging cable (USB A to micro-USB type B);
- Intelligent 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 press against your neck to receive the sound.



2. LED Indicator– Indicates battery charge and different settings information.
3. Talk Button 1 – Press to produce sound. It can be configured with its own unique volume and pitch.
4. Talk Button 2 – Press to produce sound. It can be configured with its own unique volume and pitch.
5. Settings Button (FB) – Used for changing settings, adjustments, and checking the battery discharge level.
6. Red LED – Indicates when the battery is fully charged.
7. Green LED – Indicates that the charger slot is properly connected to the power supply.
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. After you take the device out of the box, you need to fully charge it before starting usage.

Charging is carried out by 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.

The Green LED next to the micro USB slot shows that the charger slot is properly connected to the power supply.

While the Red LED is on, the charging is not complete. The Red LED turns off when the charging process is completed.

NOTE: Due to safety regulations a device usage while charging is denied.

If you turn the device on from the bottom switch while charging and try to use it, the device will not emit sound and the LED light above the speech buttons will glow in Red to warn you. To use the device, simply disconnect the charger.

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

To do this, use the ON/OFF Switch on the bottom of the device. The LED Indicator lights up in green briefly. Press the Top Cap of the device firmly against the neck and then hold Talk Button 1 or Talk Button 2 to speak. The device will start to emit sound. This allows the proper function of the product.

6. Finding the sweet spot

A sweet spot is called a place on the throat area where you feel the sound from the electrolarynx transmits through the neck tissue and out of the oral cavity with the most clarity.

The easiest way to find your sweet spot is by tightly pressing the electrolarynx Top Cap in

different locations on your neck area and articulating a single vowel while pressing one of the Talk Buttons.

What you are looking for is the place on your neck, which best transmits the sound. While looking for a sweet spot, it is crucial that you press the device tightly against your neck tissue so the sound transmits through the tissue and out of the oral cavity. **Take your time finding your sweet spot** – this is the most important part of learning 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. It is crucial to over-articulate every sound with your mouth until you feel comfortable. After that, you can start practicing short words. Slowly work your way up to sentences and conversation.

In some cases, talking can be achieved in a month, in other cases, it can take only 3 days.

For a more detailed guide, please check our blog:

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

SETTINGS

8. 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 which volume you want to adjust (TALK button 1 or TALK button 2).
2. While holding the desired Talk Button, press and hold the Settings Button. The LED indicator will 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 LED indicator will start glowing in green. The device is now in "Volume setup mode."

5. You can now press Talk Button 1 to increase the volume up and Talk Button 2 to decrease the volume.
6. When you reach your desired volume, press the Settings Button to confirm. The device will automatically save your choice.

NOTE: You can assign a different volume to each Talk Button.

9. How to change the pitch

You can adjust the pitch of each Talk 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 which pitch you want to adjust (Talk Button 1 or Talk Button 2).
3. Keep both buttons pressed. The LED Indicator will start glowing red.
4. After a few seconds, the device will start emitting sound on its own. Release all buttons. The device is now in “Pitch setup mode.”

5. You can now press Talk Button 1 to increase the pitch and Talk Button 2 to decrease the pitch.

NOTE: The LED Indicator will blink in red if you are at the maximum or minimum pitch.

Otherwise, it will glow in green.

6. When you reach your desired pitch level, press the Settings Button to confirm. The device will automatically save your choice.

NOTE: You can assign a different pitch for each Talk Button.

10. How to reset all settings to factory values

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

1. Press and hold all buttons starting from the top - Talk Button 1, Talk Button 2, and the Settings Button.

2. The LED will start glowing in blue. Continue to hold all buttons until the LED turns from blue to white.
3. When the LED Indicator turns solid white, release all buttons and wait 3-4 seconds. All settings have been reset to the factory default.

Check our website for video tutorials.

<https://labextrade.com/harmony/>

BATTERY

11. Check the battery level

While the device is turned on, press and hold the Settings Button. The LED Indicator will glow in different colors depending on the battery charge level.

GREEN – the battery charge is more than 50% of the capacity.

YELLOW – the remaining capacity is between 25% and 50%.

RED – the remaining capacity is between 10% and 25%. The LED will continue to glow in red after each button press, to remind you to charge your device.

GLOWING RED - The charge level is below 10% and the sound is disabled to protect the battery. The LED Indicator will glow in red after each press of the Talk Buttons. When you charge the battery, the sound will be enabled again.

NOTE: It is recommended to charge your device when the LED indicator lights up in RED. This will ensure the life of the battery.

NOTE: If you find that the battery in your device can not hold a charge for more than one hour of use, then the integrated battery may be 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/contact-us> or support@labextrade.com.

12. 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 LED Indicators at the bottom of the device will light up. The Red LED at the bottom of the device will turn off when the charging process is completed.

NOTE: If the bottom RED LED is flashing - the device has entered a battery protection mode. It can be triggered by one of the following situations:

- The battery temperature may be over 45°C and the charging process is temporarily stopped, while the battery cools below 45°C. This protects the battery. If the device is exposed to direct sunlight, move it to a cooler place. The charging will continue after the device cools down.

- This is a rare situation: A hardware problem may be detected and internal protection is turned on and denies charging the battery.

CARING FOR YOUR DEVICE

13. 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. Build-up dust and dirt can be the cause of malfunctioning the device.

For the best hygiene practices, the following procedure should be followed:

1. Clean the outside surfaces of the device with a slightly damp soft microfiber cloth.
2. After cleaning all 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.

14. Contact information

LABEX TRADE LTD. VAT # BG203819149

Address: 59 Sankt Peterburg Blvd., Floor 6, office 604, 4017 Plovdiv, Bulgaria, European Union

T: +359 32 54 9090, M: +359 878 616 711

Information & orders: sales@labextrade.com

15. Assistance

- You can find the relevant information on the self-assist page:
<https://labextrade.com/self-assistance-harmony/>
- Submit a ticket at
<http://support.labextrade.com>
- Questions on website and online orders:
admin@labextrade.com

For more information visit

<https://labextrade.com>

General parameters	Labex Harmony
Adjustable pitch	Yes
Adjustable volume	Yes
Pitch range	55 - 165 Hz
Volume range	60 - 83 dB
Speech time per charge	up to 30 h*
Full charge time	3,15 h with Labex charger
Mechanical buttons	3
Speech buttons	2
USB charging	Battery Charging Specification Revision 1.2
* Depending on pitch and volume selected	
Physical parameters	Labex Harmony
Diam x Length	∅ 32 x 123 mm
Weight	146 g with battery
Body material	ABS + Aluminum
Dust resistive	Yes
Moisture resistive	Yes
IP Standart	IP40**
** Only for reference	
Features	Labex Harmony
Automatic low battery warning	Yes
Check discharge level	Yes
Charge finished indication	Yes
Lanyard holder	Yes
Lanyard	Yes
Power charger	Built-in

Charger type	USB charger
Connector type	Micro USB type B
Charge current	5V 1.5A max. - depending on USB port power
Battery information	Labex Harmony
Capacity	3,7V 3400 mAh
Battery type	Li-Ion, non-removable
Batteries in the package	1 piece, integrated
Rechargeable	Yes
Protection	Smart electronics
Battery cell manufacturer	LG Chemical
Battery recharge life cycles	More than 500
Warranty conditions	Labex Harmony
Duration	2 years limited warranty
post-warranty repairs	In the factory
*** For the unit only, it does not cover batteries and chargers	

INFORMATION

16. 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 electrolynx or any accessories into the stoma.
- Do not burn or physically damage the battery.
- Do not short-circuit a cell or battery.

- Do not charge the device if its temperature is below 0°C.
- 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.

17. Safe storage:

- Store in a dark and dry place.
- Store the device and its accessories in its original box.
- It is recommended to recharge the battery every 6 months when the device is stored for a longer period. This guarantees the life of the battery.
- Store in temperatures between -20°C to +45°C.

18. Limited Warranty Conditions

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

During the Warranty Period, Labex Trade Ltd. will repair or replace, at no charge, products or parts of a product that proves defective because of improper material or workmanship, under normal use and maintenance.

This Limited Warranty is not transferable.

Due to the nature of the electrolarynges and the principle of their use, the device is not intended to be used by multiple people, shared use, and second-hand use. Because of the contact of the device to the user's neck, stoma, or other cavities - the device is for personal use only! Thus the Limited Warranty provided by Labex Trade Ltd. is non-transferable.

Duration of the coverage.

The Warranty Period for Labex™ electrolarynges is two years from the date of purchase. A fully replaced or repaired electrolarynx remains in the warranty period.

The warranty does not cover:

The external batteries as well as the chargers, because it is not possible to guarantee if the customer uses them as described in the UM.

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 unauthorized modification.
- Damaged or destroyed by natural causes including but not limited to lightning, flood, or another natural disaster.
- Theft or loss of the electrolarynx.

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).

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 check for a possible solution at <https://labextrade.com/self->

[assistance/](https://labextrade.com/self-assistance/)

19. Information on Disposal for Users of WEEE:

The 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, following 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.