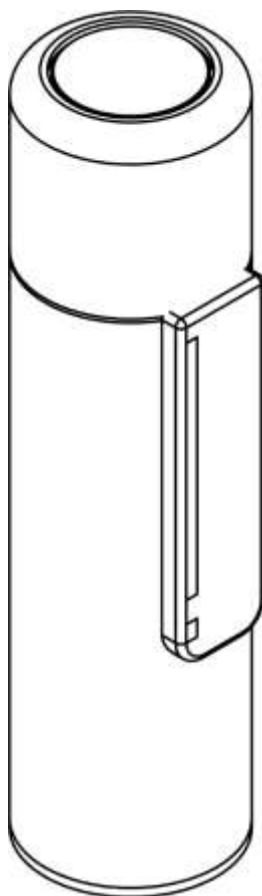


LABEX™ INSPIRATION EL

USER MANUAL



OVERVIEW

1. What is Labex Inspiration

Labex Inspiration is a digital electrolarynx device. It is specially designed to help laryngectomees talk. Its main feature is the touch slider that allows the user to change the intonation while speaking.

Labex Inspiration 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 similar to the human voice.

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

2. In the box

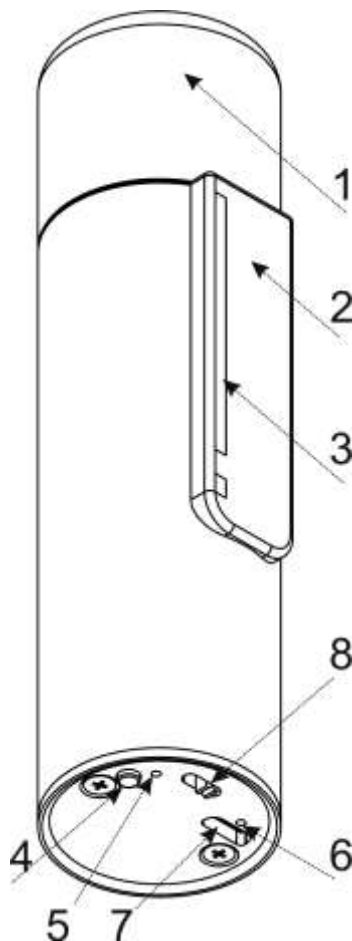
In the box, you will find everything you need to start using the device:

- 1 – Labex Inspiration electrolarynx device;
- 2 – USB charging cable (USB A to micro USB type B);
- 3 – USB charger 5V 2A;
- 4 – „Labex“ lanyard;
- 5 – The User manual;
- 6 – Original Warranty card.

3. Parts and buttons

Labex Inspiration consists of several main components:

- 1) Top cap – The part which you put on your neck to receive the sound.
- 2) Touch Slider – Touch to talk, and slide your finger up and down to change the pitch.
- 3) LED bar – Active LED bar that shows you information like current pitch level, battery level, etc.
- 4) SETTINGS button – Used for changing settings, adjustments and to check the battery discharge level.
- 5) Red LED – Indicates when the battery fully charged.
- 6) Green LED Indicates when the battery is charging.
- 7) USB port – Used to charge the device with the included USB cable.
- 8) ON/OFF switch – Used to turn the device ON or OFF.



GETTING STARTED

4. Basic use

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

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 a wall socket. The Green and

Red LEDs at the bottom of the device should light up. When your device become fully charged the Red LED turns off.

Note: The device will not work while charging. This is a safety measure.

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

To do this, use the ON / OFF slider switch located on the bottom of the device. The active LED strip illuminates briefly and indicates the battery level. Normal operation of the device is done by placing your finger on the touch panel. Moving your finger up and down will change the pitch up and down, respectively.

Note: During the startup process the device performs quick calibration of the touch sensors. **It is important to keep the fingers away from the touch sensors while switching the unit ON** to avoid missing or improper sensitivity.

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

Sometimes 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.

USING THE INSPIRATION ELECTROLARYNX

The Inspiration can be configured to work in different modes which will be presented later. However, the daily usage is reduced to 3 simple functionalities:

- **Speak & change the pitch while talking** by sliding on the touch panel. Touch the panel to start the sound and slide on to change the pitch. Release to stop the sound.
- **Quickly raise or lower the volume level.** To do so first touch the slider then hold the setting button. This will start the sound and let you hear the current volume. Sliding to the top will raise the volume, sliding down will lower the volume. Release the settings button to confirm the desired volume.
- **You can check the battery discharge level and the current intonational mode.** Press and hold the settings button only.

For 2 seconds the LED bar will show the remaining capacity of the battery. If all 8 LED lights are on then the battery is fully charged, if less than 2 are on the battery is about to run out and has to be recharged soon. A red light at the bottom of the slider will turn on.

Then for a second all LEDs will go OFF and for another second only one LED will light, corresponding to the number of current intonation mode.

THE VARIETY OF MODES ARE COMBINED INTO THE FOLLOWING GROUPS:

9. Intonational variations

- **Standard** /by default/. Regardless of the touch position, the starting pitch is fixed. Sliding up/down the slider will raise or lower the pitch.
- **Linear**. The pitch depends only on the finger position on the slider.
- **Musical notes**. The slider is divided into 8 zones and each presents one note from the D Major range.
- **East Asian modulation**. This is a variation of the linear mode.

Which tonal variation you choose depends on your preferences.

NOTE: Practice! It is recommended that you find the “sweet spot” first and start speaking syllables and words, even short phrases, and **then** begin to improvise with intonations.

10. Dynamic volume with a flat tone.

- The pitch is equal to the last used. The volume changes with the sliding of the finger along the slider.

11. The settings options are:

- Switching the Start/Stop source. The sound can be started and stopped by touching the touch panel or by the top cap.
- Set the base pitch corresponding to the middle of the touch panel.
- Factory reset.

Check our website for video tutorials.

SETTINGS

The procedure for selecting the mode of operation is a bit “hidden” to simplify the everyday use of the electrolarynx. It is expected these selections and adjustments to be performed rarely or only at the beginning of usage. A speech therapist can set them according to the user preferences.

Anyway, it is a simple procedure that can be done unlimited times. In addition, the device can always be reset to the base settings – the state it came from the factory.

12. List of all 8 modes of operation.

- #1 Standard intonation mode: Regardless of where you touch on the slider the sound will start at the same Base Pitch. Sliding your finger up and down will raise or lower the pitch, respectively.
- #2 Linear intonation mode: The pitch of the sound depends on the position of the finger at which you touch the slider. Touching close to the top will give a higher start pitch, touching close to the bottom will set the initial pitch lower. Then you can slide your finger up and down to change the pitch higher and lower, respectively.
- #3 Volume mode: Sliding the finger up and down on the slider changes the volume up and down, respectively. The pitch remains unchanged and flat, equal to the last used pitch.
- #4 East Asian modulation: The slider is separated into five distinct zones with flat tones and quick transitions in between. This mode is specifically designed for East Asian languages.
- #5 Musical notes mode: The slider is divided into 8 zones and each presents one note from the D Major range.
- #6 Automatic START/STOP source switch:
Choosing this mode will switch the source for automatic START/STOP function. Entering this mode will exchange the control point between the slider and the top of the working cap. When top cap is enabled, the device will start producing sound automatically as soon as you press the top cap to your neck. To go back to starting the sound from the slider touch, select the mode one more time.
- #7 Factory reset:
Choosing this option will revert the device to its factory settings.
- #8 Base Pitch Select:
Base Pitch is the starting pitch in the Standard Intonation mode and the pitch of the middle of the slider in the Linear Intonation mode.

When this option is selected, the device will start emitting sound on its own. Slide your finger up and down the slider to change the pitch. When you reach the desired pitch, press the SETTINGS button to confirm it.

Note: You can switch the source for automatic START/STOP function, regardless of which intonation variation is currently active.

13. How to enter and switch between the modes.

As explained above the Labex Inspiration has several working modes. Here is the procedure to select different modes of operation.

- 1) The unit must be in off state. If it is ON, turn OFF the device using the ON/OFF switch.
- 2) Press the SETTINGS button and hold it pressed.
- 3) While holding the SETTINGS button turn ON the device using the ON/OFF switch (and keep the SETTINGS button pressed). Watch the 8 segments LED bar indicator. The RED at the bottom of the slider blinks and the first bar of the LED indicator will light up.
- 4) If you keep holding the SETTINGS button after 3 seconds the second bar of the LED will light up in addition to the first one. After another 3 seconds the third bar on the LED indicator will light up too, and so on up to the eight LED of the bar.
- 5) Releasing the SETTING button will enter the mode number, equal to the count of the LEDs ON at the moment of releasing the SETTINGS button. (Check up the list in the previous point).

EXAMPLE: If you want to choose option #3 - Turn off the device. - Hold the SETTINGS button. - Turn on the device while holding the SETTINGS button. - The first LED bar will light up. Continue to hold the SETTINGS until first 3 LEDs lights steady and RELEASE the SETTINGS button.

BATTERY

14. Check the battery level

While the device is turned ON, press and hold the SETTINGS button for about 2 seconds. The LED indicator on the slider will fill up corresponding to the

Labex Inspiration User Manual, Date: 20 April 2020, # 9

battery charge level. Just like on your mobile phone. If all or nearly all LEDs light up, that means the battery is close to full. If there are only one or two LEDs light up, then your battery should be charged soon.

Note: When the battery capacity is lower than the first LED, the device will stop emitting sound, and a red LED will light up every time you touch the touch slider or the top cap. At that point you have to charge the device.

15. Charging the battery

To charge the device plug the provided USB cable in 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 in a wall socket. The Green and Red LEDs at the bottom of the device should light up. When your device become fully charged the Red LED turns off.

Note: The device will not work while charging. This is a safety requirement regarding the EMC standards requirements.

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.

CARING FOR YOUR DEVICE

16.Cleaning and maintenance:

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:

- Clean the outside surfaces of the device with a slightly wet soft microfiber cloth.
- 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.
- Wipe the device with a soft microfiber cloth again.

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.
- 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 electrolarynges 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**.

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.

Labex Inspiration User Manual, Date: 20 April 2020, # 11

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.

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.

18. 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.

19. Contact information

LABEX TRADE LTD.

59 Sankt Peterburg Blvd., Floor 6, 4017 Plovdiv, Bulgaria, European Union

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

Information & Orders: sales@labextrade.com

After-sales support: support@labextrade.com

Website questions: admin@labextrade.com

For more information visit <https://labextrade.com>

20. 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.

21. Technical specifications

| General: | |
|------------------------------|------------------------------------|
| Adjustable tone | Yes |
| Adjustable volume | Yes |
| Frequency range | 55 - 155 Hz |
| Volume range | 60-83 dB |
| Different modes of operation | 5 modes |
| Speech time | Up to 24 h. |
| Charging time from 0 to 45% | 60min 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 | 186 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 |