

# LABEX™ DIGITAL EL

## USER MANUAL



## **OVERVIEW**

### **1. What is Labex Digital**

Labex Digital is a digital electrolarynx device. It is specially designed to help laryngectomees talk.

Labex Digital 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 speech.

### **2. In the box**

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

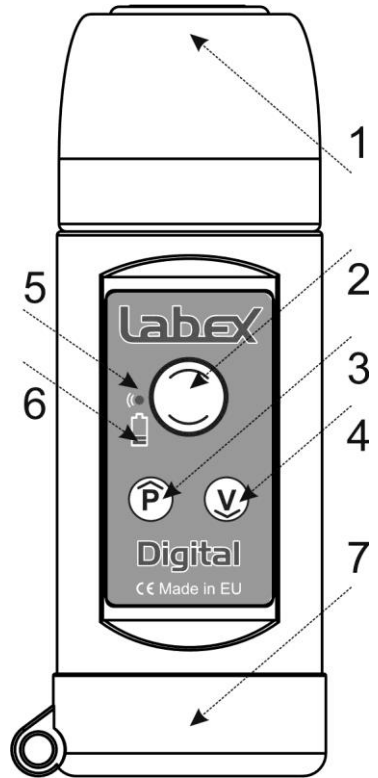
- 1 – Labex Digital electrolarynx device;
- 2 – 2 batteries 9V rechargeable Li-Io ;
- 3 – Two socket charger;
- 4 – „Labex“ lanyard;
- 5 – User manual;
- 6 – Warranty card.

### 3. Parts and buttons

Labex Digital consists of several main components:

- 1) Top cap – The part which you put on your neck to receive the sound.
- 2) START button – Main button, press it to produce sound.
- 3) UP button – Used for changing settings.
- 4) DOWN button – Used for changing settings.
- 5) Indicator LED – Lights up when the START button is pressed.
- 6) Battery indicator – Lights up when the battery needs charging.
- 7) Battery cover – Used to secure the battery inside the device.

**NOTE:** The actuator buttons are sensitive. They require about 160 grams of force to make contact. Please avoid pushing them with extreme force. Doing so could damage your device.



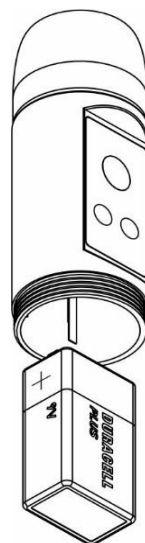
## GETTING STARTED

### 4. Basic use

You must insert the battery into the device in order to turn it on. Take one battery of the two included in the package, and carefully remove the transparencies. Swivel the bottom cap of the device. Insert the battery by ensuring that the "+" and "-" signs of the battery and the device match. Swivel the bottom cap back.

**NOTE:** Inserting the battery incorrectly will not damage the device, but it will not work.

Press the Top cap of the device against the neck and then press the Speech Button. The device will start to emit sound. This allows the proper function of the product.



### 5. 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 while you are pushing the START button. 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 important part of learning to use an electrolarynx. Finding just the right place will set you up for success.

### 6. 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/>

## 7. 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.

## SETTINGS

### 8. How to change the volume

To adjust the volume of your device, follow these steps:

- 1) Press and hold the DOWN button for about 3 seconds until the device starts buzzing.
- 2) When the device starts buzzing, release the button. The device should keep buzzing by itself without any button being pressed.
- 3) Press the UP or DOWN button to adjust the pitch up or down.
- 4) After you reached the desired volume, press the START button for confirmation. The device will automatically save your desired volume.

### 9. How to change the pitch

To adjust the pitch of your device, follow these steps:

- 1) Press and hold the UP button for about 3 seconds until the device starts buzzing.
- 2) When the device starts buzzing, release the button. The device should keep buzzing by itself without any button being pressed.
- 3) Press the UP or DOWN button to adjust the pitch up or down.

- 4) After you reached the desired pitch, press the START button. The device will automatically save your desired pitch.

## 10. How to reset all settings to factory defaults

- 1) If you feel that you want to revert the device to its factory default volume&pitch follow these steps:
- 2) Press and hold all the buttons at the same time (START, UP and DOWN buttons).
- 3) The red Battery Indicator LED will start flashing. Continue to hold all the buttons until the Battery Indicator LED stops flashing and lights up in solid red.
- 4) When the Battery Indicator LED turns solid red, release all the buttons and wait 3-4 seconds. All the settings have been reset to the factory default.

Check our website for video tutorials.

## BATTERY

### 11. Low battery

Labex Digital has a built-in battery indicator, which will warn you when the battery level gets low. When the battery goes down to 20%, the Battery Indicator LED will start blinking after every press of the START button. When the battery drains down to 10%, the Battery Indicator LED will light up solid red after each press of the START button. At this point, you should replace your battery with a fully charged one.

### 12. Different batteries

There are two high capacity Li-Io batteries included with your Labex Digital. This will allow you to always have a fully charged battery on hand. However, Labex Digital is compatible with all 9V batteries on the market – rechargeable or non-rechargeable.

## 13. Charging the battery

After you pull out your drained battery, you should charge it with the included intelligent charger:

- 1) Put the battery inside the charger while minding the “+” and the “-”.
- 2) Put the charger into an electrical socket.
- 3) The corresponding red LED will light up, meaning the battery is currently charging.
- 4) The red LED will turn off when the battery is fully charged.

**NOTE:** The included intelligent charger will NEVER overcharge your batteries.

**WARNING:** Do not try to put ANY other kind of battery inside the charger! The charger is designed ONLY for Li-Io(Lithium-Ion) batteries! Putting any other kind of battery inside the charger will result in permanent damage to the battery and the charger!

**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 battery you are using is near the end of its life cycle. If this happens, we advise you to recycle this battery and get a new one.

## CARING FOR YOUR DEVICE

### 14. 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.

## 15. Water resistance

Labex Digital can withstand being used in the rain or cleaned with a wet cloth. However, submerging the unit in water will damage the device and will void your warranty.

## 16. Contact information

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|----------------------------|--|
| Information & orders:      | <a href="mailto:sales@labextrade.com">sales@labextrade.com</a>     |
| After-sales support:       | <a href="mailto:support@labextrade.com">support@labextrade.com</a> |
| Website questions:         | <a href="mailto:admin@labextrade.com">admin@labextrade.com</a>     |
| For more information visit | <a href="https://labextrade.com">https://labextrade.com</a>        |



## 17. Technical specifications

| <b>General:</b>              |                               |
|------------------------------|-------------------------------|
| Adjustable tone              | Yes                           |
| Adjustable volume            | Yes                           |
| Speech button                | 1                             |
| Settings buttons             | 2                             |
| Frequency range              | 55 - 155 Hz                   |
| Volume range                 | 60-83 dB                      |
| Speech time                  | Up to 4 h. per charge         |
| <b>Physical:</b>             |                               |
| Diameter x Length            | Ø34 x 98 mm                   |
| Weight                       | 72g without battery           |
| Dust / Moisture resistive    | Yes                           |
| <b>Battery:</b>              |                               |
| Capacity                     | 600 mAh                       |
| Battery type                 | Rechargeable 9V 6F22 Li-Ion   |
| Batteries in the box         | 2 pcs                         |
| Battery life                 | More than 500 recharge cycles |
| Chargins station in the box  | 2 slots 9V Li-Ion             |
| Charging time from 0 to 100% | 4h 30 min with Labex charger  |
| Protection                   | Smart electronics             |

## INFORMATION

### 18. 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**.

### 19. 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.

## 20. 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.
- Damage to or destruction of a device by natural causes, including but not limited to lightning, flood, or other 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/>

## **21. 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, 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.