

ITONGUE MANUAL

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Itongue User Manual

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Revision 5.0

1 Introduction

1.1 About this manual

This manual will introduce you to your new Itongue system, or to the Itongue system of the person you are assisting, and give you the information needed to use the system safely. Please read this manual carefully before using Itongue. When reading the manual, pay special attention to the statements labelled **WARNING**. They indicate a situation where you or another person may be in danger of serious injury, or a situation in which the Itongue equipment may be damaged.

1.2 About Itongue

The Itongue control system allows you to control a range of electronic devices using your tongue. By moving an activation unit mounted in a tongue piercing over the surface of the Itongue mouthpiece, you can control Windows-based computers and tablets, as well as your electric controlled wheelchair. The signals from the sensors in the mouthpiece are sent to the Itongue control unit and from there to the device being controlled.

1.3 Symbols

below explains the meaning of the symbols used on your Itongue and its packaging





	Refer to documentation
	Device emits non-ionizing radiation
	Do not dispose in household waste
	Type BF applied part according to IEC 60601-1

Table 1: Symbols used on the Itongue

1.4 Contact and support

Support for your Itongue system is provided by your local dealer. See www.tks-technology.dk for the contact information of your local dealer. Having access to your Itongue system and an internet connection when you call will speed up the support process.

The Itongue is manufactured by: **TKS A/S, Niels Jernes Vej 10, 9200 Aalborg Øst, Denmark**

1.5 Warranty

The warranty is only valid if the unit is used according to the user manual and the warranty seal is not broken.

Itongue is intended to be used by cognizant persons over the age of 18. The Itongue is not intended to be used by persons who lack the tongue mobility to eject the mouthpiece using their tongue. Use of the Itongue that falls outside the intended use described above is not covered by the warranty.

2 Setting up Itongue

2.1 System overview

The Itongue consists of four parts: An activation unit (AU), a Mouthpiece Unit (MPU), a Control Unit (CU) and a Charger for the Mouthpiece Unit (CMU). The CU and CMU each include a power supply. See Figure 1 for a diagram of the Itongue, excluding the activation unit.

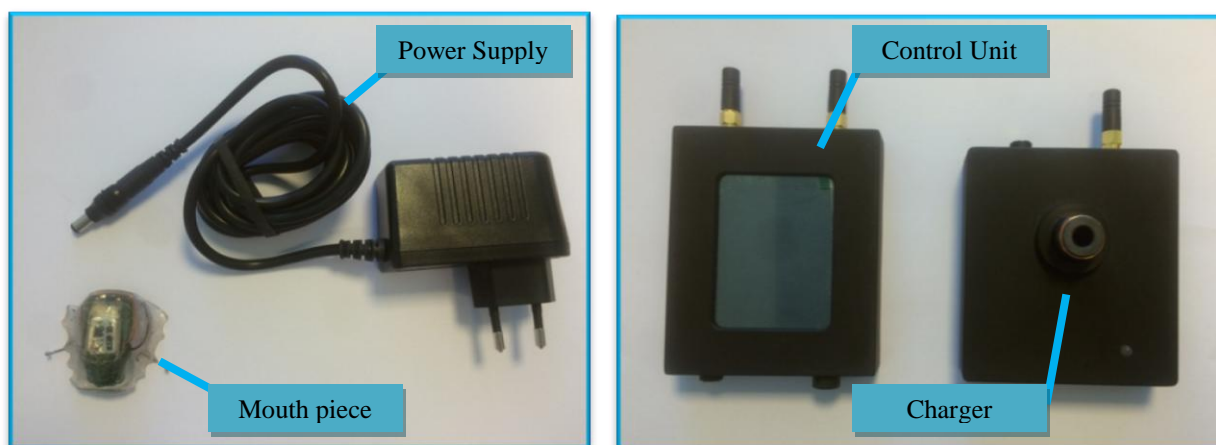


Figure 1 : Itongue parts and cable.

The activation unit (AU) activates the sensors in the MPU and is placed on the tongue. The AU is mounted on a piercing in your tongue.

The Mouth Piece Unit (MPU) is placed in the palate of your mouth when you are using Itongue. The mouthpiece is fixed to the teeth using dental retainers and is removed when Itongue is not in use.

The Control Unit (CU) allows you to operate a computer interface or control a wheelchair. The control unit has a touch screen that can be used to adjust settings and change modes without using the mouthpiece. The control unit has a power supply connector, as well as a connector for cabled connection to a wheelchair. The CU power supply is used when the CU is in use with a computer or tablet. When the CU is connected to a wheelchair, the wheelchair power adapter cable is connected to the power supply connection on the CU.

The Charger for Mouthpiece Unit (CMU) charges the mouthpiece battery after use.

WARNING: DO NOT USE THE ITONGUE WITH OTHER POWER ADAPTERS THAN THOSE SUPPLIED WITH THE SYSTEM. IF YOU REQUIRE A REPLACEMENT POWER ADAPTER, CONTACT YOUR SERVICE REPRESENTATIVE.

All necessary Itongue drivers are installed at delivery.

2.2 Before using the Itongue for the first time

The Itongue should only be used after it has been being cast and configured by a dental professional, and after completed healing of a piercing inserted by a dental or medical professional with experience in performing piercings. Do not use Itongue systems belonging to other users than yourself.

The Itongue should only be used by persons who are able to eject the mouthpiece using the tongue. Do not use the Itongue if you are not able to do so. Practice ejecting the Itongue with your tongue before using the system while alone.

2.3 Setting up Itongue

Make sure the Itongue mouthpiece is fully charged before using it for the first time. If you are not using the Itongue with a wheelchair, connect the Control Unit to the power supply cable and plug the power supply into a standard power outlet (220V). When you are done using the Itongue, you can leave the Control Unit plugged in, or switch it off by disconnecting the power supply cable from the Control Unit.

Setup of Itongue for wheelchair use should be performed by an authorized service and installation technician.

3 Using Itongue

In order for the Itongue to function properly, the control unit must be placed no more than 2-3 meters from the mouthpiece.

3.1 Before using the Itongue:

Before each use of the Itongue, please observe the following precautions.

1. Attempt to push the mouthpiece out using your tongue. You must always be able to push out the mouthpiece when using the Itongue. Frequently pushing the mouthpiece out using your tongue will increase the need to have the dental retainers adjusted by a dentist.
2. If there are visible cracks or holes in the mouthpiece encapsulation, do not use the Itongue. Contact your service representative.
3. If there is visible damage to the control unit, for example cracks in the display, do not use the Itongue. Contact your service representative.
4. If the mouthpiece feels loose and is not fixed properly to the teeth, do not use the Itongue. Contact your dentist to have the mouthpiece adjusted.

3.2 Inserting the mouthpiece

If you have not been instructed in how to insert the mouthpiece by a dentist at installation time, please contact a dentist to receive these instructions.

WARNING: PUSHING, PULLING, SQUEEZING OR OTHERWISE APPLYING FORCE TO THE MOUTHPIECE AND/OR THE DENTAL RETAINERS MAY DAMAGE THE ENCAPSULATION.

3.3 Charging the mouthpiece

The Itongue mouthpiece is powered by a battery. This battery needs to be recharged daily using the charger for the mouthpiece unit:

- Connect the charger to a power outlet. The indicator light will blink green to show that the charger is connected, but no mouthpiece is registered.
- Place the mouthpiece sensors down on the mouthpiece holder, as shown in Figure 1.
- The indicator light on the charger will light up:
 - o A yellow light indicates that the mouthpiece is charging
 - o A blinking yellow light indicates that the mouthpiece is not placed correctly in the charger. Remove the mouthpiece from the charger and place it again.

- A red light indicates that the mouthpiece is overheated. Remove the mouthpiece from the charger and find a place that is cooler and place it again. If this does not work you must contact your Itongue service representative.
- A blinking red light indicates that the battery cannot charge due to an error. Contact your Itongue service representative
- When the mouthpiece is fully charged, the light will change to green.

TKS recommends charging the mouthpiece overnight when it is not in use. To disconnect the charger, simply remove the power supply cable from the power supply connector on the charger.

WARNING: THE CHARGER IS INTENDED TO BE CONNECTED A STANDARD EU POWER OUTLET. DO NOT ATTEMPT TO CONNECT THE CHARGER TO OTHER TYPES OF POWER OUTLETS.

3.4 Modes

The Itongue has five modes:

- Keyboard
- Mouse
- Wheelchair
- Menu
- Standby

The functionality of the mouthpiece sensors changes according to the mode the system is in. In standby mode, activation of the sensors does not result in any signals being sent out.

Figure 2 to 4 show the layout of sensors in keyboard, mouse, and wheelchair mode. You can change mode using the touch screen on the control unit (CU) or by navigating through the menus using the mouthpiece.

In the bottom left corner of the screen, the battery symbol shows the level of battery power in the mouthpiece. A green battery symbol indicates that the mouthpiece is fully charged. If the battery symbol changes to yellow or red, it is time to charge your mouthpiece.

In the bottom right corner of the screen, the radio symbol shows the quality of the radio connection between the control unit and the mouthpiece.



Figure 2: Main Menu.

3.5 Navigating the CU menu

3.5.1 Wheelchair mode

In Wheelchair mode, Itongue is connected via a wire to the wheelchair make a safe connection. This mode gives you the opportunity to drive the wheelchair in whatever direction chosen on the mouse area of the MPU.

3.5.2 Keyboard mode

In Keyboard mode, Itongue is connected via Bluetooth to a Windows based computer or a tablet. The keyboard is operated as a 10 key mobile keyboard and is able to use word recognition programs.

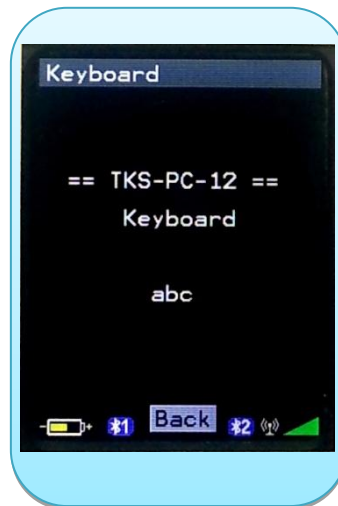


Figure 3: Keyboard mode.

The keyboard and the mouse have a fast link which enables you to switch modes rapidly.

3.5.3 Mouse mode

In Mouse mode, Itongue is connected via Bluetooth to a Windows based computer or a tablet. The mouse is operated with a mouse pad and enables you to move the mouse on the connected computer.

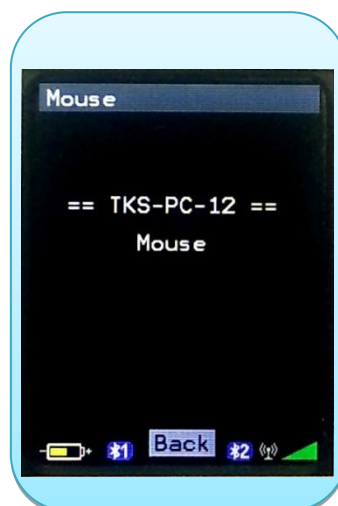


Figure 4: Mouse mode.

The keyboard and the mouse have a fast link which enables you to switch modes rapidly.

3.5.4 Connect

The CU can be paired to several bluetooth devices such as smart phones or tablets. These paired devices are listed and can be selected quickly. By this selection previously connection will be terminated automatically. Notice it's only possible to create a connection if the device is turned on and within communication range.

3.5.5 Getting started with your Windows computer or tablet

In order to get used to the location of the sensors on the mouthpiece, it is recommended to use the Itongue Visual Feedback Software with your computer and tablet. This software has been installed on your devices by your service and installation technician and can be accessed like any other program or app on your device.

Once opened, the Visual Feedback Software will show you which sensors you are activating by highlighting them in red on your computer screen (see

Figure 5). The background of the Visual Feedback window is transparent, allowing you to see what you are working on while viewing the sensors you are activating.

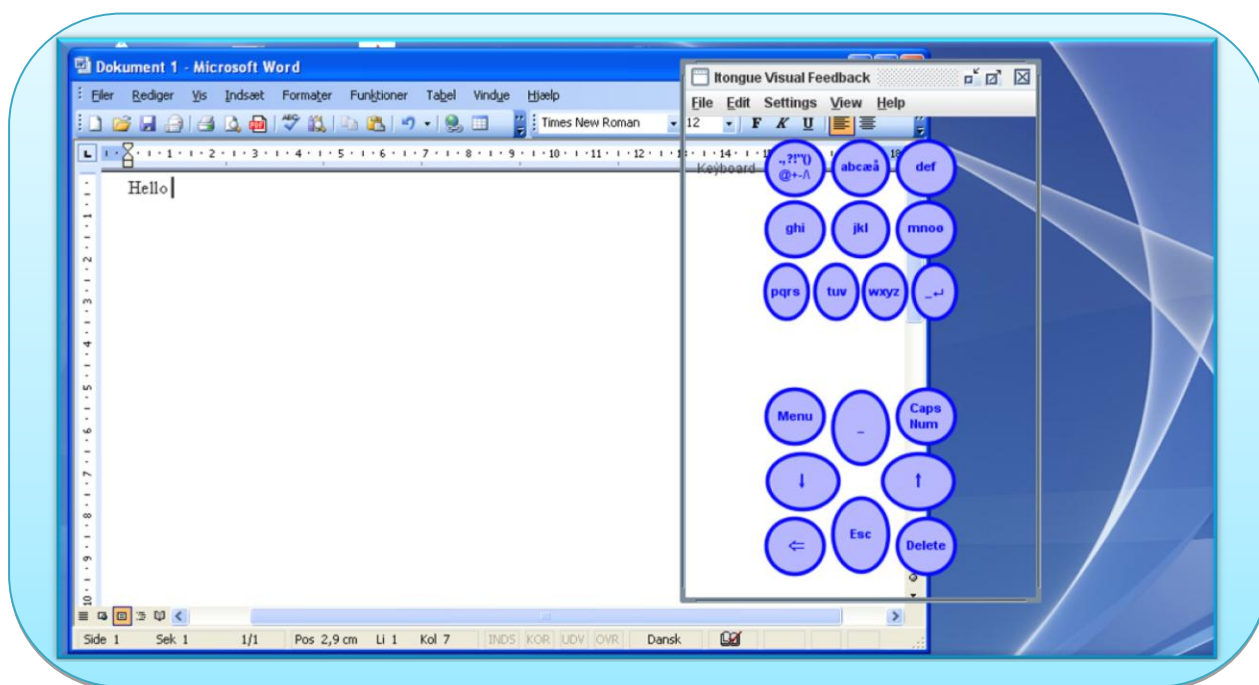


Figure 5: Visual Feedback software against Windows Desktop background.

3.5.6 Using the keyboard

1. Place the Itongue in keyboard mode using the mode button on the mouthpiece or the control unit, or the quick change from mouse mode.
2. Place your activation unit on the sensor for the letter you want to write. Keep the activation unit in place to shuffle through the letters associated with the sensor. Lift or slide the activation unit away from the sensor when your desired letter shows up.
3. From keyboard mode, a short activation of the menu button will take you directly to mouse mode. Holding the menu button for 3 seconds will take you back to the main menu, from which you can select keyboard mode or other modes.

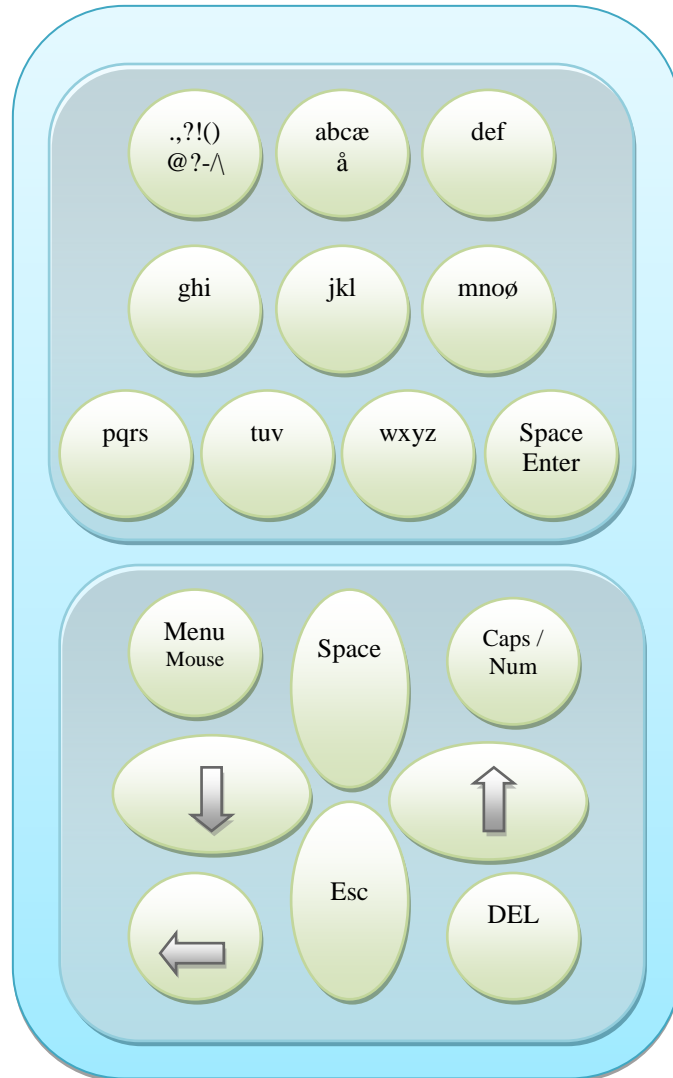


Figure 6: The layout of mouthpiece sensors in keyboard mode

3.5.7 Using the mouse

1. Place the ltongue in mouse mode.
2. Move the activation unit around the back part of the mouthpiece to control the movement of the cursor.
3. Hold the activation unit over the left or right mouse button sensor areas to click the mouse.
4. To drag and drop a selected item, hold down the mouse button for a few seconds. You can now lift the activation unit and the item will remain selected. Move the activation unit to the cursor area to drag the selected item. Tap the left or right mouse button sensor to deselect the item.
5. From mouse mode, you can return quickly to keyboard mode by selecting the menu button. Holding the menu button for more than 3 seconds returns you to the main menu.

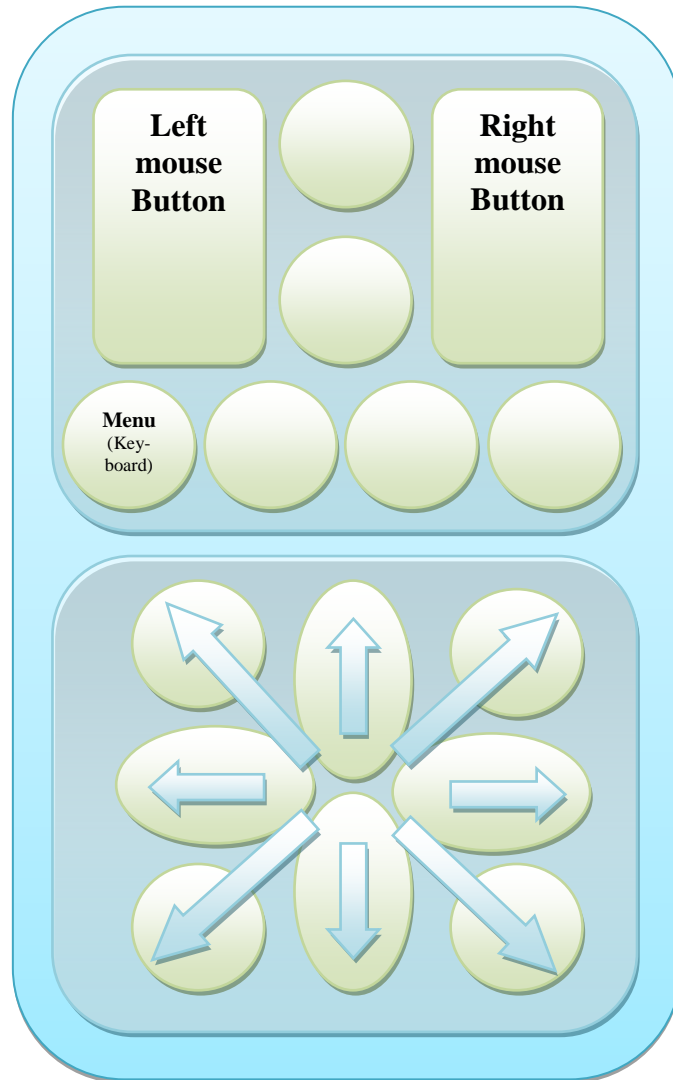


Figure 7: Layout of mouthpiece sensors in mouse mode

3.5.8 Getting started with your wheelchair.

The Itongue is compatible with almost all kind of control interfaces for wheelchairs.

WARNING: DO NOT ATTEMPT TO CONNECT THE ITONGUE WHEELCHAIR CABLE TO OTHER WHEELCHAIRS OR CONNECTIONS. OTHER WHEELCHAIRS MAY NOT BE ABLE TO SAFELY INTERPRET ITONGUE SIGNALS. CONNECTING THE WHEELCHAIR CABLE TO OTHER OUTLETS THAN THE WHEELCHAIR CONTROL INTERFACE MAY DAMAGE YOUR ITONGUE.

When using Itongue with a wheelchair for the first time, please observe the following precautions:

1. Practice using the Itongue on a computer or tablet before using it with a wheelchair.
2. Ask your wheelchair service technician to reduce the speed settings of your wheelchair.
3. Practice using the Itongue to control the wheelchair indoors and with others present.
4. Be aware that speaking while in control of a wheelchair may cause the wheelchair to move unexpectedly.

3.5.9 Controlling the wheelchair

1. Connect the Control Unit to the wheelchair by plugging the Wheelchair cable into the Wheelchair connection on the Control Unit.
2. Select wheelchair mode on the control unit or mouthpiece.
3. Turn on wheelchair if it is off by activating the on/off sensor for one second.
4. Acknowledge that you wish to change to wheelchair mode by activating the on-off/acknowledge sensor for one second.
5. Itongue is now in wheelchair mode and you can control the wheelchair using the joystick sensor area. If safety stop is activated, you will have to activate on-off/acknowledge sensor for one second.
6. To disconnect Itongue from the wheelchair, simply remove the Wheelchair connection cable from the CU.

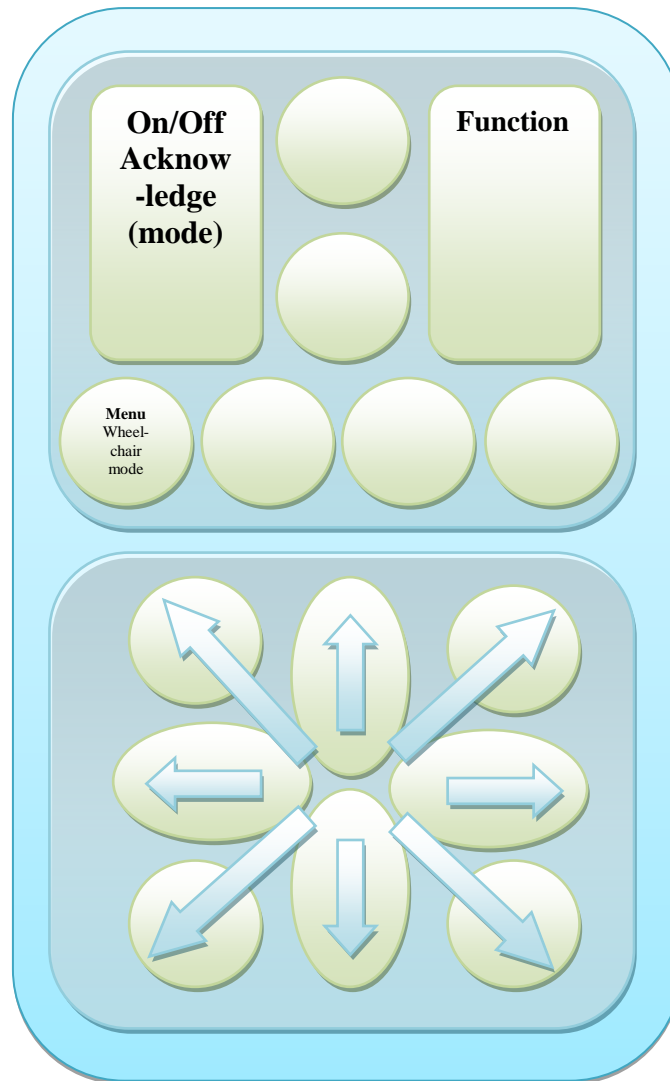


Figure 8: Layout of mouthpiece sensors in wheelchair mode

3.5.10 Error messages in wheelchair mode.

When in wheelchair mode the Control Unit can display the following error messages in red coloured text:

- **“No Wheelchair”**: A connection from the Control Unit to the wheelchair is not established. Check if the cable is connected to the wheelchair and the wheelchair is powered on.
- **“MouthPiece missing!”**: No radio connection from the Control Unit to the Mouth Piece Unit is established. The MPU is not present, not working or outside radio range.

- **“No Radio 1”**: Radio connection from the application processor to the MPU is lost. Signal is weak, noisy or has temporary been interrupted by another device transmitting on the same radio frequency.
- **“No Radio 2”**: Radio connection from the supervisor processor to the MPU is lost. Signal is weak, noisy or has temporary been interrupted by another device transmitting on the same radio frequency.
- **“Data missing”**: Bad radio connection to the MPU.
- **“Data error”**: Safety stop; calculated Joystick XY-coordinates from the application processor and supervisor processor does not match. Some of those messages are to be expected in situations having several “No Radio 1” and “No Radio 2” dropouts - that is quite normal. But if this message is persistent and dominates in occurrence over other messages, a faulty hardware is most likely the problem.
- **“Wheelchair ERROR”**: Due to an error in the wheelchair, the Control Unit is unable to establish a connection. This error can arise when the Wheelchair cable is connected to the Control Unit. Try removing the cable and replacing it in the Control Unit. If the error continues, contact your wheelchair vendor.

3.6 Daily use of the Itongue

The Itongue is intended for prolonged daily use. It is possible to eat and drink with the mouthpiece in place. Always place the Itongue in standby mode before eating or drinking. The mouthpiece should be removed before sleeping.

WARNING: SLEEPING WITH THE MOUTHPIECE IN PLACE MAY LEAD TO DENTAL INJURY OR SUFFOCATION.

WARNING: EATING AND DRINKING WITHOUT PLACING ITONGUE IN STANDBY MODE MAY LEAD TO UNINTENDED WHEELCHAIR MOVEMENTS AND RESULTING INJURY.

3.6.1 Cleaning the mouthpiece

The mouthpiece must be cleaned regularly according to the following cleaning regimen:

Daily: Brush the mouthpiece twice a day with a soft brush and mild hand soap - for example in the morning, prior to inserting the mouthpiece and in the evening, after removing the mouthpiece for the night.

Weekly: Place the mouthpiece in a mild laundry detergent for hand wash (such as Biotex for hand wash) overnight, followed by cleaning with mild hand soap and a soft brush in the morning.

Weekly: Place the mouthpiece in household vinegar (3%) overnight, followed by cleaning with mild hand soap and a soft brush in the morning.

Overnight cleaning with laundry detergent and vinegar should be spread out across the week. For example, cleaning with laundry detergent on Wednesday and cleaning with vinegar on Saturday.

In order to maintain a high level of dental hygiene, it is also necessary to be extra thorough when brushing teeth, and to schedule regular follow-ups with a dental professional.

WARNING: CLEANING THE MOUTHPIECE USING BOILING OR HOT WATER OR ABRASIVE MATERIALS AND CLEANING AGENTS MAY DAMAGE THE MOUTHPIECE.

3.6.2 Cleaning the piercing

Brush piercing (top and bottom) thoroughly with a soft toothbrush morning and evening, for example, while brushing teeth. The piercing does not need to be removed to be cleaned.

WARNING: CLEANING THE PIERCING USING ABRASIVE MATERIALS AND CLEANING AGENTS MAY DAMAGE THE PIERCING.

WARNING: NOT BRUSHING THE PIERCING MAY DAMAGE THE ITONGUE AND NEGATIVELY AFFECT YOUR DENTAL HEALTH.

3.6.3 Cleaning the control unit and charger

The control unit and charger can be cleaned by wiping with a damp cloth, as necessary. The display of the control unit should only be cleaned using a dry cloth.

WARNING: SUBMERGING THE CONTROL UNIT OR CHARGER IN WATER, OR OTHERWISE EXPOSING THEM TO LARGE AMOUNTS OF WATER, MAY DAMAGE THE EQUIPMENT AND IMPACT ITS ELECTRICAL SAFETY.

3.6.4 Adjusting the mouthpiece

The Itongue mouthpiece needs to be adjusted by a dentist just as a normal brace. If the mouthpiece feels loose, tight or otherwise uncomfortable in the mouth, the mouthpiece should not be used and the retainers should be adjusted. The Itongue depends on regular dental checkups to ensure that the system is adequately fitted. Discuss intervals for Itongue adjustment with your dentist.

WARNING: USING AN INCORRECTLY FITTED ITONGUE MOUTHPIECE CAN LEAD TO DENTAL INJURY OR BREATHING DIFFICULTY.

The piercing should remain firmly in place. If the piercing is uncomfortable or loose, see your dentist.

WARNING: A SWALLOWED PIERCING MAY LEAD TO BREATHING PROBLEMS. IF YOU BELIEVE THAT YOU HAVE SWALLOWED OR INHALED THE ITONGUE PIERCING OR PART OF IT, CONTACT YOUR DOCTOR.

3.6.5 Suitable areas for Itongue use

The Itongue is intended to be used indoors and outdoors in dry weather. In rainy conditions, the Control Unit should be placed in a waterproof bag or cover.

The Itongue is not intended to be used at more than 90% humidity (non-condensing).

***WARNING: DO NOT USE THE ITONGUE UNCOVERED IN RAINY CONDITIONS.
THIS MAY DAMAGE THE SYSTEM AND IMPAIR ITS ABILITY TO CONTROL A WHEELCHAIR.***

The Itongue control unit and charger for mouthpiece unit are classified as IP42 which means that it is protected against the ingress of particles larger than 1 mm, such as wires and screws, and protected against dripping water. The mouthpiece is completely sealed against the ingress of water and particles.

***WARNING: USE OF THE ITONGUE IN THE VICINITY OF STRONG MAGNETIC FIELDS,
SUCH AS THOSE PRODUCED BY MRI SCANNERS, MAY CAUSE SERIOUS INJURY.***

***WARNING: OTHER RADIO FREQUENCY EQUIPMENT, SUCH AS MOBILE PHONES,
MAY TEMPORARILY DISRUPT THE FUNCTIONING OF ITONGUE.***

WARNING: THE ITONGUE MUST BE COMPLETELY SWITCHED OFF DURING AIR TRANSPORT.

3.6.6 Storage of the Itongue

The mouthpiece battery must be charged regularly in order to remain functional. If the Itongue is placed in storage and not used for a period of time, the mouthpiece should be stored on the charger and the charger should be powered. Store the Itongue at room temperature and away from direct sunlight.

***WARNING: THE MOUTHPIECE BATTERY MAY BE DAMAGED AND UNABLE TO RECHARGE
IF THE MOUTHPIECE IS NOT CHARGED REGULARLY.***

***WARNING: THE ITONGUE SHOULD NOT BE STORED AT HIGH TEMPERATURES. PLACING
THE MOUTHPIECE IN FOR EXAMPLE A HOT CAR OR IN DIRECT SUNLIGHT
MAY DAMAGE THE ENCAPSULATION.***

3.6.7 Disposing of the Itongue

Your Itongue mouthpiece is expected to have a service life of 2 years.

The battery life of the mouthpiece will decrease naturally over time. The estimated lifetime of the mouthpiece battery is around 3 years. It is not possible to change the battery in the mouthpiece – do not attempt to do so yourself. Contact your Itongue dealer to purchase a new mouthpiece when the battery life has become unsatisfactory.

Deliver the Itongue to an electronic waste disposal site or return it to your dealer for proper disposal.

WARNING: DISPOSING OF ITONGUE IN HOUSEHOLD WASTE MAY RELEASE DANGEROUS SUBSTANCES INTO THE ENVIRONMENT.

4 Settings

The Configuration window on the control unit allows you to adjust the behaviour of the mouthpiece in keyboard and mouse mode to suit your needs. Wheelchair settings cannot be changed through the Itongue.

Save all changes: This button saves all your current settings.

Cancel all changes: This button cancels all changes you have made to your settings since they were last saved. This allows you to return to your previous saved settings, if you are unhappy with setting changes you have made.

4.1 Keyboard settings

To change the settings for the Itongue keyboard, go to the Settings window and then the Keyboard Settings window in the control unit menu. All the settings are adjusted by tapping the slider on the control unit screen to increase or decrease. If you are using the mouthpiece, the left and right arrow buttons can be used to increase or decrease the value. The buttons change colour when they are active. The following keyboard settings can be adjusted:

Dwell time: The time a sensor has to be active for the character associated with the sensor to be written. When a sensor is activated, the associated character will appear. If the sensor is deactivated before the dwell time has passed, the character will disappear again without being written. Activating the sensor longer than the dwell time will result in the character being written. The higher the dwell time, the longer you will have to hold the activation over a sensor to write the character. *TKS recommends a higher dwell time for beginners.*

Repeat time: The time a character is displayed before the next character appears. When the repeat time is high, each character is shown for a longer interval, giving you more time to decide whether it was the right one. *TKS recommends a higher repeat time for beginners.*

Goto Mouse time: Required activation time of the mode sensor for a direct jump between keyboard and mouse mode. Value should be less than mode time (system settings screen).

Caps/Num time: Required activation time of the caps/num sensor for shifting between lowercase char, uppercase char and numbers.

4.2 Mouse settings

To change the settings for the Itongue mouse, go to Settings, then Mouse Settings in the control unit menu. The following settings can be adjusted here:

Invert XY Reverses left and right or up and down on the cursor area. Invert XY is only possible for mouse control.

Release time: This setting determines how quickly the system responds to the activation unit moving away from a sensor. If this time is low, the system will quickly interpret a movement away from a sensor as that sensor no longer being active. *TKS recommends a higher release time for beginners.*

Sticky time: This setting determines the time the mouse button sensor must be activated to select an item for drag and drop. *TKS recommends a higher sticky time for beginners.*

Mouse speed factor: The speed of the cursor on the screen. A higher value means a higher cursor speed. *TKS recommends a lower mouse speed factor for beginners.*

Activation time: Hold time before a mouse button is activated.

4.3 Bluetooth settings

The Bluetooth settings menu is accessed from Settings, then Bluetooth Settings. Through this menu, you can initiate and end Bluetooth connections to computers or tablets. BT-1 TKS HID controls the mouse and keyboard connection to your PC or tablet, while BT-2 TKS SPP controls the connection to the Visual Feedback Software on PC or tablet. Each of the Bluetooth connections has the following options:

Find: This searches for Bluetooth devices in the area to connect to. Next to the button, a list of nearby Bluetooth devices is shown. If your desired device is not displayed, check that the device is broadcasting its Bluetooth connection according to the instructions of the manufacturer.

Select: This allows you to select the device you wish to make a pairing from the list above. The name of the selected device is coloured red. When a connection has been established the symbol “~” and a blue icon will be shown.

Conn.: This allows you to connect to the selected device. A successful connection is added to the list of paired devices.

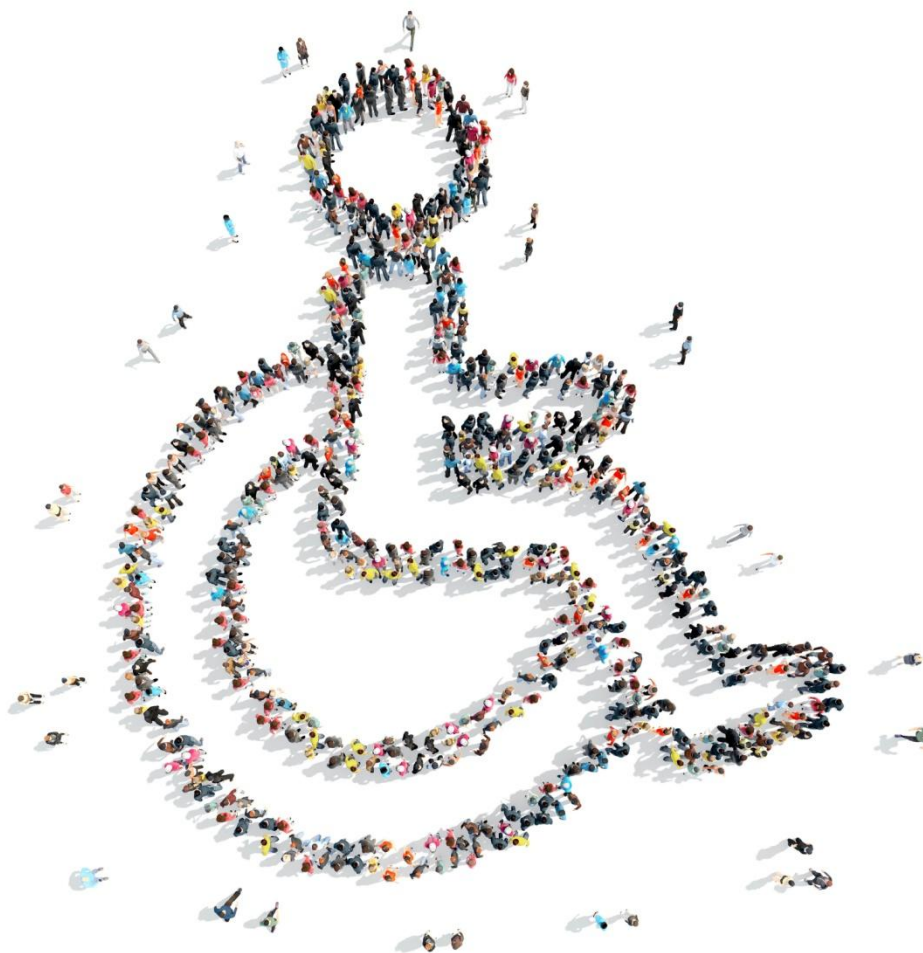
Disc.: This allows you to disconnect from the selected device.

Unpair: This removes a device from the list of paired devices.

4.4 System Settings

Mode Time: The time you need to activate the Menu sensor to exit a mode and shift to the previous menu.

Drive Map: Setting of how the control signals from the wheelchair ‘pad’ of the mouthpiece is mapped to the wheelchair. The best result is usually achieved by using the default value of 1 (recommended).



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Itongue is CE approved