# **INSTRUCTIONS** FOR USE

# Fitting **LINK**



#### Thank you

Thank you for choosing our product as your means to fast, reliable fitting. To support your efforts, we have put great care and attention into making sure that FittingLINK is of the highest quality and is easy to use and maintain.

FittingLINK ensures a fast and reliable connection directly between the PC and the client's hearing instruments via Bluetooth technology.

In the fitting software you will find instructional videos on how to use FittingLINK.

We recommend that you read this manual carefully before you start to use FittingLINK, in order to achieve the maximum benefit. The manual contains important information about preparing and using FittingLINK on your PC. It describes the most frequently used functions, which must be understood before you start to use FittingLINK. The manual also contains instructions and important information about the handling of your FittingLINK and FittingLINK charger. For specific information about how to use FittingLINK with your fitting software, please refer to the documentation delivered with your fitting software (e.g. installation handbooks, help files or instructional videos).

If you have any questions about the use, care, or maintenance of FittingLINK, please contact your supplier's support function.

#### Indications for Use

FittingLINK is an accessory to fitting software used when programming wireless hearing instruments. FittingLINK is intended for wireless transfer of fitting data between the hearing instruments and the device running the fitting software. FittingLINK can be connected to the device running the fitting software through the provided Bluetooth adaptor or USB cable.

FittingLINK is intended to be used by Hearing Care Professionals and hearing instrument users.

# **IMPORTANT NOTICE**

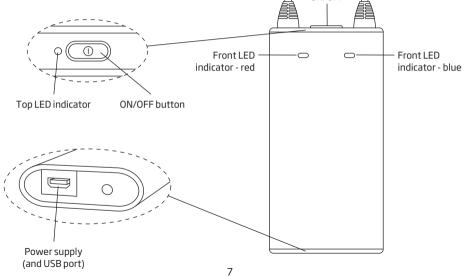
Please familiarize yourself with the entire content of this booklet before using your FittingLINK. It contains instructions and important information about the use and handling of your FittingLINK.

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# Instrument view



- Neck loop

#### Package content

FittingLINK - what is in the box?

The FittingLINK box consists of the following elements:



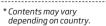


This guide (Instructions For Use)













# **∆** Warnings

You should familiarize yourself with the following general warnings and the entire contents of this booklet before using your FittingLINK.

#### Products to be connected to external equipment

When using the USB cable always insert the cable into FittingLINK before connecting the cable to other equipment.

The safety of recharging batteries with the USB cable is determined by the external equipment. When the USB cable is connected to mains-operated equipment, this equipment must comply with IEC 60065, IEC 60950-1, IEC 60601-1 or equivalent safety standards.

For safety reasons, only recharge the battery with original FittingLINK accessories. If third party equipment is used, safety cannot be guaranteed.

# **Warnings**

#### Explosives and heat exposure

There is a risk that the battery will explode and cause serious injury if FittingLINK is exposed to excessive heat. Never expose FittingLINK to extreme heat by putting it in the oven, microwave, burning it or leaving it inside a parked car in the sun.

The operating temperature for FittingLINK is between 5 and 40° C.

#### Choking hazards

FittingLINK is not a toy and therefore should be kept out of the reach of children and anyone else who might swallow parts or otherwise cause injury to themselves.

If a part is swallowed, see a doctor immediately.

#### Interference and active implants

FittingLINK is designed to comply with the most stringent Standards of International Electromagnetic Compatibility. However, FittingLINK might cause interference with other medical devices, such as defibrillators and pacemakers.

# **▲ Warnings**

- Please contact the manufacturer of your implantable device for information about the risk of disturbance.
- Immediately remove FittingLINK if interference is suspected and seek medical advice.

Interference can also be caused by power line disturbances, electromagnetic fields from other devices, radio signals and electrostatic discharges.

Please note that other active FittingLINK devices and wireless hearing instrument accessories in proximity may create interference and should be turned off.

#### Use of the neck loop

The neck loop is an antenna for the magnetic induction link to the hearing instruments.

If the neck loop should accidentally get caught on something while the client is wearing it, the neck loop is constructed to release automatically. Therefore, never try to shorten or modify the neck loop in an unauthorized way.

Always use the provided clip to shorten the length of the neck loop.

# **Warnings**

If the neck loop breaks, it cannot be repaired and must be replaced immediately. Consult your local supplier for replacement.

Please refer to "How to use FittingLINK on children".

#### Battery safety and replacement

Do not attempt to open FittingLINK, as it may damage the battery. Never attempt to replace the battery. If battery replacement is needed, please return your device to the supplier. The service guarantee is void if there are signs of tampering.

The battery is tested and in compliance with IEC 62133.

#### Basic functions - first-time use

Insert the USB cable in the bottom of the charging cradle and the charger is ready for use.



# Turning FittingLINK ON/OFF

#### Power on

Press the ON/OFF button on top of FittingLINK for approx. 2 seconds until you see a green steady light from the top LED and a short red and blue flash from the front LED indicators. The LED lights indicate that FittingLINK is powered on and you can release the ON/OFF button.

If FittingLINK cannot power on, make sure it is charged.

If the top LED shows a red light instead of the green light the battery is running low (steady red light) or very low (flashing red light) and FittingLINK should be charged. Please refer to "See how to charge FittingLINK".

#### Power off

Press and hold the ON/OFF button on top of FittingLINK for approx. 2 seconds until the top LED indicator turns off.

# How to charge FittingLINK

FittingLINK uses an internal rechargeable battery.

FittingLINK can be charged either by using the provided charger and charging cradle or by using the USB cable provided.

When charging FittingLINK for the first time, it should be left to charge for at least two hours even if the top LED indicator on the device shows that the battery is fully charged. We recommend that you turn off and store FittingLINK in the charging cradle whenever it is not in use, to ensure the best possible performance.

It is safe to leave FittingLINK in the charging cradle overnight – the battery cannot be overcharged.

#### FittingLINK charging indicator

Charging	
Top LED indicator	Description
	Device on and fully charged
	Device on and charging
	Device off and charging Once fully charged, the LED will be off

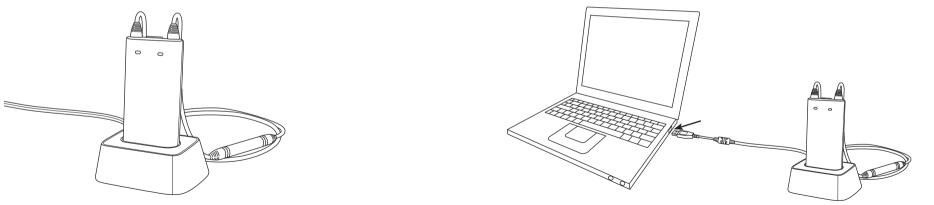
○ Steady ●● Flash

# Charging FittingLINK with the charger and charging cradle

Simply place FittingLINK in the charging cradle when you want to charge FittingLINK with the provided charger and charging cradle. Remember to connect the charger to a power outlet. As soon as the power is switched on, FittingLINK will start charging.

# Charging FittingLINK with the charging cradle and USB cable

When charging FittingLINK with the provided charging cradle and the USB cable, place FittingLINK in the charging cradle and connect the USB cable to a USB port on your PC.



Please note that if you charge via a USB hub, some hubs do not deliver enough power to actually charge FittingLINK. In this case we recommend use of the provided charger instead.

Only recharge FittingLINK using the provided charger or a stabilized USB hub/charger that provides 5VDC and  $\geq$ 500 mA.

# Charging FittingLINK without the charging cradle

If you prefer not to use the charging cradle when charging FittingLINK, you have the option to insert the USB cable directly into FittingLINK instead of the charging cradle.



#### **IMPORTANT INFORMATION**

When using the USB cable, always insert the USB cable into FittingLINK before connecting the cable to other equipment.

#### Battery low indicator

FittingLINK will indicate low battery (approx. 20 minutes programming capacity left) with a steady red light, and very low battery (approx. 5 minutes programming capacity left) with a flashing red light.

Battery low indicator		
Top LED indicator	Description	
	Low battery – approx. 20 minutes capacity left	
	Very low battery – approx. 5 minutes capacity left	

The battery should not be drained completely. Keeping the battery fully charged will prolong the capacity of the battery. The battery cannot be replaced by the user.

The battery capacity is up to 8 hours of typical daily use.

Battery charge time is 2 hours for complete charge, using the provided power supply.

Steady CFlash

To ensure the best possible performance, we recommend that you turn off and store FittingLINK in the charging cradle whenever it is not in use.

#### Connect to a PC

You can connect FittingLINK to your PC either by using the provided Bluetooth adaptor or the USB cable.

The Bluetooth adaptor enables you to connect FittingLINK wirelessly to your computer. However, in some locations Bluetooth technology is not allowed. When this is the case, simply connect FittingLINK with the computer via the provided USB cable.

Before you start connecting FittingLINK to a PC for the first time, please make sure that you have the latest version of your fitting software installed on the PC. Please also make sure that FittingLINK is fully charged. See "How to charge FittingLINK".

Please note that the provided Bluetooth adaptor connects only to FittingLINK and that FittingLINK only connects to the Bluetooth adaptor provided.

# Connect to a PC via the Bluetooth adaptor

Make sure that FittingLINK is turned **OFF**.

To obtain wireless connection between FittingLINK and your PC, simply plug the provided Bluetooth adaptor into a USB port on your PC and turn the PC **ON**.

FittingLINK has already been paired by the manufacturer with the Bluetooth adaptor provided in the box set. However the first time you connect to a PC, a message may appear on the screen and inform you that the applicable driver is being installed. Allow the installation to run before you proceed.

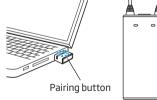
Now turn **ON** FittingLINK. See "Turning FittingLINK ON/OFF". FittingLINK is now ready for programming compatible wireless hearing instruments.

# How to re-establish pairing between FittingLINK and the Bluetooth adaptor

FittingLINK has been paired by the manufacturer with the adaptor provided in the box set.

If for some reason the PC running your fitting software does not recognize FittingLINK, you may have to re-establish the pairing between FittingLINK and the Bluetooth adaptor. In this case please close the fitting software before you continue.

1. Press and hold the pairing button on the Bluetooth adaptor for five seconds until the LED lights up with a flashing blue light.



- Press the ON/OFF button on FittingLINK for five seconds and the top LED will light up with a flashing blue light. The pairing will begin automatically. FittingLINK must be close to the Bluetooth adaptor (approx. 10 cm) while the pairing takes place.
- When the pairing is successfully completed the adaptor LED will show steady blue (until the fitting software is turned on) while the top LED on FittingLINK shows steady blue for approximately 10 seconds.

Please note that FittingLINK can only be paired to a single Bluetooth adaptor at a time and vice versa.



	Pairing
Top LED indicator	Description
	FittingLINK in pairing mode
	Pairing complete

● Flash ● Steady

When the pairing is finished, open your fitting software, detect and select FittingLINK as your programming device. It is necessary to perform and complete this selection procedure only once.

FittingLINK is now ready for programming the hearing instruments.

# Connect to a PC via the USB cable

To connect FittingLINK to your PC with the USB cable, insert the USB cable in the USB port in the bottom of FittingLINK and then insert the other end of the cable in a USB port on your PC.

Turn **ON** your PC and then turn **ON** FittingLINK. Open your fitting software, detect and select FittingLINK as your programming device. It is only necessary to perform and complete this selection procedure the first time.

FittingLINK is now ready for programming wireless hearing instruments.

Please note, you can leave the Bluetooth adaptor in your PC while connecting via the USB cable.

## **IMPORTANT NOTICE**

If you connect the USB cable to a non-powered USB hub, FittingLINK may not charge. It is recommended to connect the USB cable directly to your PC.

### FittingLINK and your fitting software

When opening your fitting software the first time after FittingLINK has been installed on the PC, it will be detected as a programming device.

Depending on which fitting software you are using, FittingLINK is either automatically added as an option on the "Detect button" or needs to be manually detected and selected as programming device in the "Preferences" menu.

For specific information about how to use FittingLINK with your fitting software, please refer to the documentation delivered with your fitting software (e.g. installation handbooks, help files or instructional videos).

# How to use FittingLINK

FittingLINK has been designed to offer you the best possible daily use during programming sessions with and without your clients.

**Programming without a client** When you want to program hearing instruments without a client wearing them, turn **ON** FittingLINK.

Place FittingLINK with the neck loop flat on a table and the hearing instruments on each side of the neck loop as shown in the drawing.

When you program hearing instruments, the neck loop must always be closed as shown in the drawing. 5-10 cm

Make sure that the neck loop is not curled or touching any electrical wires or equipment and that the hearing instruments are not touching the neck loop.

The optimal placement of the hearing instruments is on the outside of the neck loop, between 5-10 cm/2-4 in. from the neck loop as shown in the drawing.

The distance between FittingLINK and the Bluetooth adaptor in your PC can be no more than 10 meters (in direct line of sight).

Devices and installations such as power cables, TVs, PC monitors, LED light bulbs and other devices emitting magnetic noise might decrease the programming performance if placed too close to FittingLINK. Likewise a table made of or containing a lot of metal, may lead to decreased performance.

Please note that other active FittingLINK devices and wireless hearing instrument accessories in proximity may create interference and should be turned OFF.

If you experience decreased performance, we recommend that you relocate FittingLINK or turn off possible sources of interference.

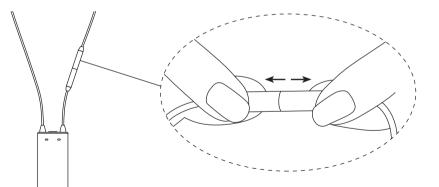
At the end of the session and before disconnecting or removing FittingLINK make sure that you have saved your programming to the hearing instruments.

Please consult the fitting software for further guidance.

#### Programming with a client

When you want to program hearing instruments while your client is wearing them, please make sure that FittingLINK is sufficiently charged.

For easy placement, the neck loop can be opened, as shown on the drawing below, while placing FittingLINK around the client's neck.



When opening the neck loop, pull the connectors apart. Do not pull the neck loop antenna.

When you program hearing instruments, the neck loop must always be closed as shown in the drawing to the right.

The distance between FittingLINK and the Bluetooth adaptor in your PC can be no more than 10 meters (in direct line of sight).

Devices and installations such as power cables, TVs, PC monitors, LED light bulbs and other devices emitting magnetic noise might decrease the programming performance if placed too close to FittingLINK. Please note that other active FittingLINKs and wireless hearing instrument accessories in proximity may create interference and should be turned off.



If you experience decreased performance, we recommend that you turn off possible sources of interference.

At the end of the session and before disconnecting or removing FittingLINK make sure that you have saved your programming to the hearing instruments.

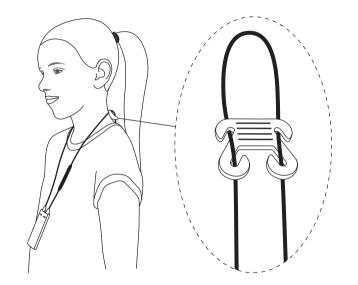
Please consult the fitting software for further guidance.

#### How to use FittingLINK on children

For children who are old enough to provide verbal feedback regarding their hearing instrument, it will be possible to use FittingLINK for programming, real-ear verification or fine-tuning.

It is also possible to use FittingLINK with babies or small children. However, the programming process with infants and small children differs from adults since they are not able to provide verbal feedback on their hearing instruments' sound quality. Therefore, it is recommended that the actual verification of the hearing instrument be done using the coupler-based verification method. See below for instructions.

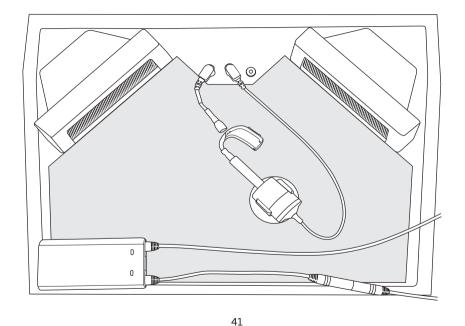
When working with children, it can be necessary to shorten the neck loop. Always use the provided clip to shorten the neck loop. Do not shorten or modify the neck loop in an unauthorized way. Please refer to the drawing on how to place the clip.



# How to use FittingLINK for coupler-based verification using hearing instrument analyzers

Place FittingLINK in the test chamber. Connect the hearing instrument to the 2cc coupler and place the hearing instrument 5-10 cm away from the outside of the neck loop, as shown here.

Close the lid of the test chamber and proceed with the coupler-based verification. Please note that FittingLINK will not work in some test chambers, due to the chambers being too small to ensure the 5-10 cm distance, or due to electromagnetic interference. If this is the case, programming must be done using the hearing instrument programming cables and a non-wireless programming interface (e.g., EXPRESSlink).



### Overview of the LED indicators

How to read the Bluetooth adaptor LED indicator.

Bluetooth adaptor		
LED indicator	Description	
	Bluetooth adaptor active	
	Bluetooth adaptor searching for in-range FittingLINK	
	Bluetooth adaptor pairing	
0	Bluetooth adaptor inactive	
	Self test error - contact your supplier	

Steady OO Slow flash Steady CLED off

#### How to read FittingLINK LED indicators.

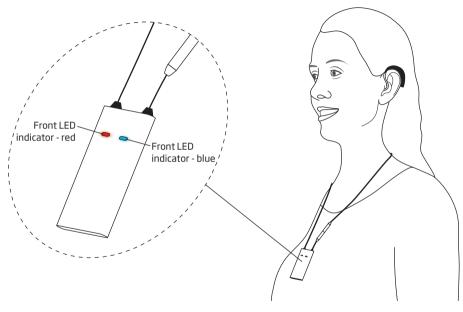
#### The top LED indicator is the battery status indicator.

Battery status	
Top LED indicator	Description
	FittingLINK on and battery fully charged
	Battery charging
	Low battery
	Very low battery
Steady C	) Flash

The front LED indicators are programming status indicators.

Programming status		
Front LED indicator	Description	
	Connected to right hearing instrument	
	Communicating with right hearing instrument	
	Connected to left hearing instrument	
	Communicating with left hearing instrument	
0	Not connected to the hearing instruments	

Steady C Flash C LED off



#### **Cleaning and maintenance**

FittingLINK is a sealed device that requires minimum maintenance. To ensure high levels of hygiene always disinfect FittingLINK before a programming session begins.

To disinfect, wipe FittingLINK and the neck loop with a 70% alcohol / 30% water solution. FittingLINK and the neck loop must never be washed or immersed in water or other liquids.

The power supply, the charging cradle and the Bluetooth adaptor must be kept free of dirt or debris. These parts are to be cleaned with a soft dry cloth only.

When FittingLINK is not in use, turn it OFF and store it in the charging cradle in order for it to be sufficiently charged and ready for the next fitting session.

# **Technical information FittingLINK**

FittingLINK contains a radio transmitter using short-range magnetic induction technology, working at 3.84 MHz and a Bluetooth radio operating at 2.4 GHz.

The magnetic field strength of the transmitter at 3.84 MHz is < -15 dB $\mu$ A/m @10m (measured in 10 kHz bandwidth) and the radiated power of the Bluetooth radio is < +8 dBm EIRP.

The emission power from FittingLINK is below international emission limits for human exposure. FittingLINK complies with international standards concerning electromagnetic compatibility.

Due to the limited size available on the device, many of the relevant approval markings are found in this document.

This device contains a module with: FCC ID: 2ACAHWLP020 IC: 11936A-WLP020 The device complies with Part 15 of the FCC rules and RSS-210 of Industry Canada.

#### Operation is subject to the following two conditions:

1. This device may not cause harmful interference.

2. This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the distance between the equipment and the receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult your supplier for help.

# Technical information Bluetooth adaptor

This device contains a module with: FCC ID: DMOCBBSKE IC: 2099D-BTD800

The device complies with Part 15 of the FCC rules and RSS-210 of Industry Canada.

#### Operation is subject to the following two conditions:

1. This device may not cause harmful interference.

2. This device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the distance between the equipment and the receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult your supplier for help.

Changes or modifications made to this equipment not expressly approved by the party responsible for compliance may void FCC authorization to operate this equipment. This Class B digital apparatus complies with Canadian ICES-003.

#### **RF Radiation Exposure Information**

Since the radiated output power of this device is far below the FCC radio frequency limits, it is not subjected to routine RF exposure evaluation as per Section 2.1093 of the FCC rules. This device complies with the US and Industry Canada portable device RF exposure limits set forth for an uncontrolled environment and is safe for intended operation as described in the user manual.

#### **Technical data**

FittingLINK model	WP-2
Bluetooth adaptor model	BTD 800 USB
Bluetooth adaptor version	WP-3
Operating conditions	Temperature: 5 °C to 40 °C Humidity: 15% to 93%, non-condensing Atmospheric pressure: 700 hPa to 1060 hPa
Storage and transportation conditions	Temperature: -25 °C to 70 °C Humidity: 15% to 93%, non-condensing

SBO Hearing A/S hereby declares that FittingLINK is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. Declaration of conformity is available at SBO Hearing A/S.

Manufactured by: SBO Hearing A/S Kongebakken 9 DK-2765 Smørum www.sbohearing.com

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