

Instructions for Use  
Installation Guide

# TV ADAPTER 2



**bernafon**<sup>®</sup>  
Your hearing • Our passion



# Table of Contents

General Warnings	6
Introduction	8
TVAdapter 2 Overview	9
<b>Installation</b>	<b>11</b>
Activating the TVAdapter 2 for the First Time	12
Connecting the TVAdapter 2 to a Power Outlet	13
Connecting the TVAdapter 2 to the TV	14
Pairing SoundGate with the TVAdapter 2	24
<b>Instructions for Use</b>	<b>29</b>
TV Listening	30
SelectMe	33
Visual Indicators	34
Additional Information	35
Technical Information	36
Information and Explanation of Symbols	41
Service	42



Congratulations on the purchase of your new TV Adapter 2 wireless accessory. Your TV Adapter 2 is intended to be used together with Bernafon SoundGate devices and Bernafon wireless hearing instruments.

Great care and attention has been paid to ensure that your device has the highest quality and is easy to use and maintain.





Please read the entire contents of this booklet before using your TV Adapter 2. It contains instructions and important information about its use and handling.

## General Warnings

Familiarize yourself with the following general warnings before using your TVAdapter 2.

### **Products to be connected to external equipment**

-  The safety of the use of the TVAdapter 2 with the auxiliary input cable is determined by the external signal source. When the input cable is connected to mains-operated equipment, this equipment must comply with IEC-60065, IEC-60601 or equivalent safety standards.
-  The TVAdapter 2 is designed to comply with the most stringent Standards of International Electromagnetic Compatibility. However, the TVAdapter 2 may cause interference with other medical devices. Please contact relevant personnel to obtain permission before using the TVAdapter 2 in hospitals or similar venues.



The TVAdapter 2 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. Special attention should be paid to smaller components in order to prevent children from swallowing them and choking. If a part is swallowed, see a doctor immediately.



The TVAdapter 2 must never be washed or immersed in water or other liquids.

# Introduction

The following items are included within your TV Adapter 2 package and will be covered within this instruction guide:



TV Adapter 2  
Model: BS-F200



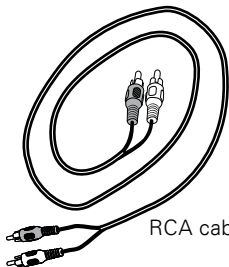
Installation Guide and  
Instructions for Use



SCART adapter



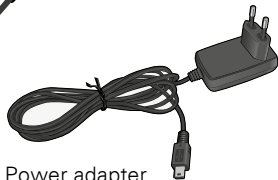
Mini jack adapter



RCA cable



TOSLINK  
cable

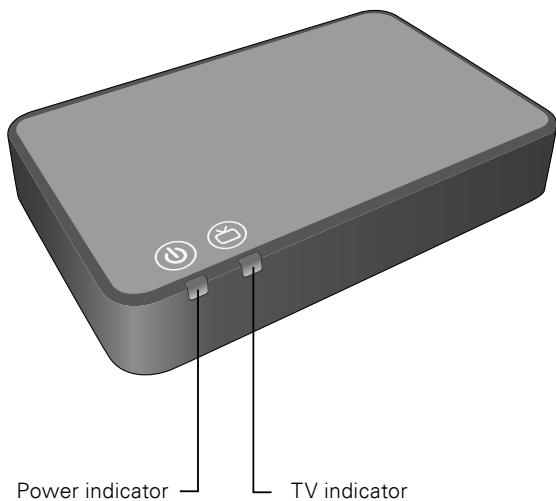


Power adapter

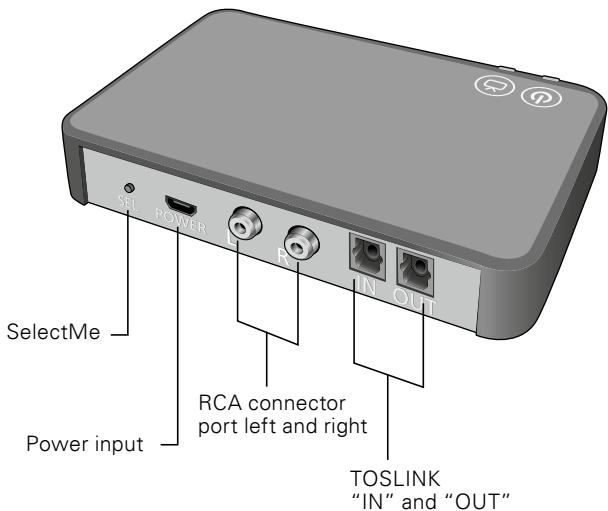


# TV Adapter 2 Overview

## Front View



## Back View



# INSTALLATION

## Activating the TV Adapter 2 for the First Time

The following pages offer easy step-by-step instructions on how to install and operate your TVAdapter 2 device.

Before you can use the TV solution together with your hearing instruments, the TVAdapter 2 must be connected to a power outlet and to the TV.

All needed parts for the installation are included in the package.

## Connecting the TV Adapter 2 to a Power Outlet

Start by connecting the TV Adapter 2 to a power outlet. Use the power adapter included within the TV Adapter 2 packaging.

- 1 Plug the power cord into the power input jack on the TV Adapter 2.
- 2 Plug the power supply into the mains wall socket.
- 3 Check that the power is turned on. After a few seconds the power indicator on the front of the TV Adapter 2 will illuminate green.



## Connecting the TV Adapter 2 to the TV

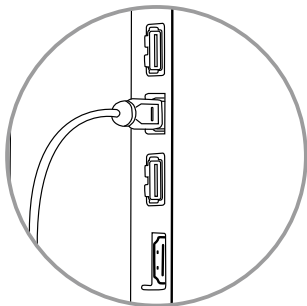
You can connect the TV Adapter 2 in four different ways.

<b>Connection</b>	<b>Page</b>
TOSLINK (either digital stereo PCM or Dolby® Digital*)	16
RCA audio output (L + R)	18
Mini jack output (typically headphone output)	20
SCART audio output (L + R)	22

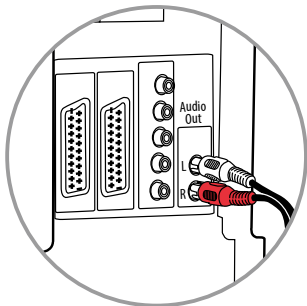
\* Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are registered trademarks of Dolby Laboratories.

Please see the following pages for a solution which fits your TV.

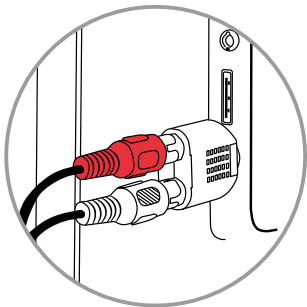
## TOSLINK, p. 16



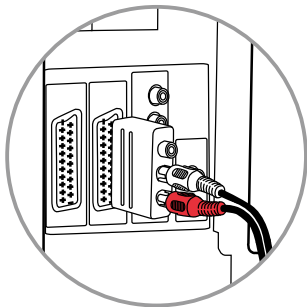
## RCA, p. 18



## Mini jack, p. 20



## SCART, p. 22



## Connecting Using TOSLINK

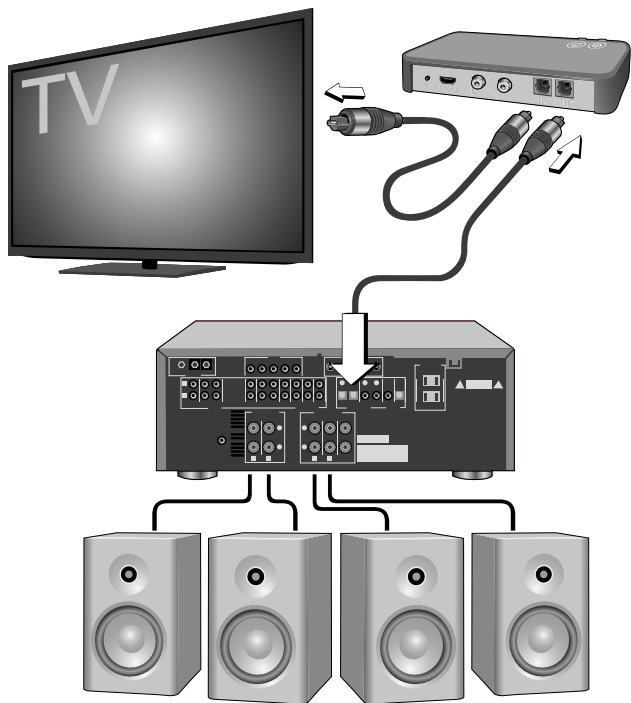
Place the TVAdapter 2 in a suitable spot near your TV.

- 1 Remove the plastic cap from the TOSLINK cable.
- 2 Connect the TOSLINK cable to the TOSLINK **output** on your TV/home theatre system.
- 3 Connect the TOSLINK cable to the TOSLINK **input** on the TVAdapter 2.
- 4 The TOSLINK output on the TVAdapter 2 may be used to connect other TOSLINK devices such as external Dolby® Decoders and surround sound systems. An additional TOSLINK cable is then needed.
- 5 Refer to page 24 for pairing of the TVAdapter 2 with your SoundGate device.



It may be necessary to configure your TV so that the correct audio output is available on the TOSLINK output.





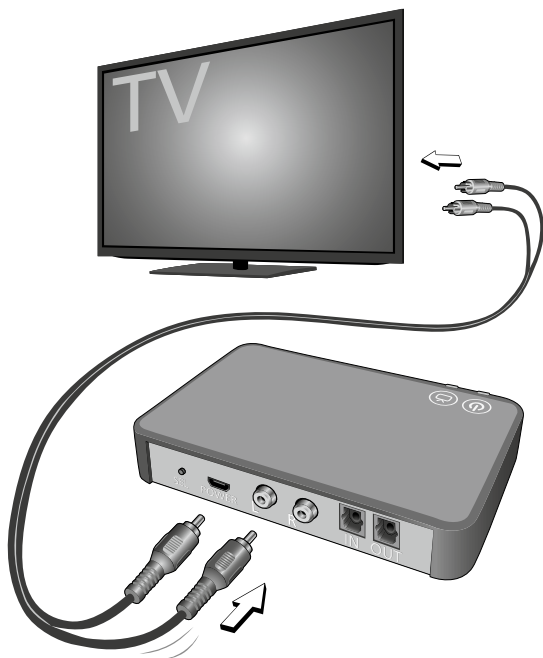
## Connecting Using RCA

Place the TVAdapter 2 in a suitable spot near your TV.

- 1 Connect the RCA cable to the RCA **output** on your TV or home theatre system. (Typically marked "L – R AUDIO OUT" and found on the TV back or bottom panel.)
- 2 Connect the RCA cable to the RCA connector ports on the back of the TVAdapter 2.
- 3 Refer to page 24 for pairing of the TVAdapter 2 with your SoundGate device.



It may be necessary to configure your TV so that the correct audio output is available on the RCA output.



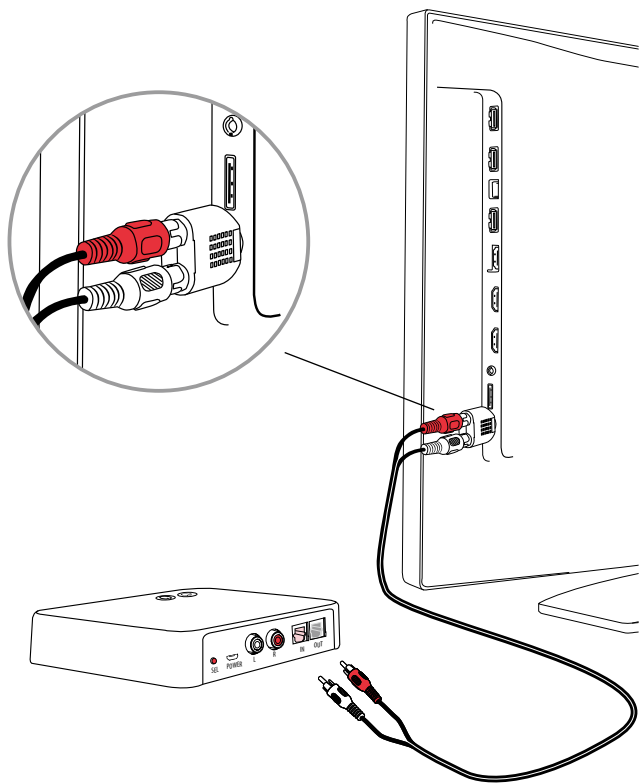
## Connecting Using Mini Jack Adapter

Place the TV Adapter 2 in a suitable spot near your TV.

- 1 Connect the RCA cable to the mini jack adapter.
- 2 Connect the mini jack to the TV (typically, it is the headphone output).
- 3 Connect the RCA connectors to the TV Adapter 2 RCA connector ports.
- 4 Refer to page 24 for pairing the TV Adapter 2 with your SoundGate device.



The TV speakers may be muted when connecting to the headphone output, and sound will only be heard through your hearing instruments.



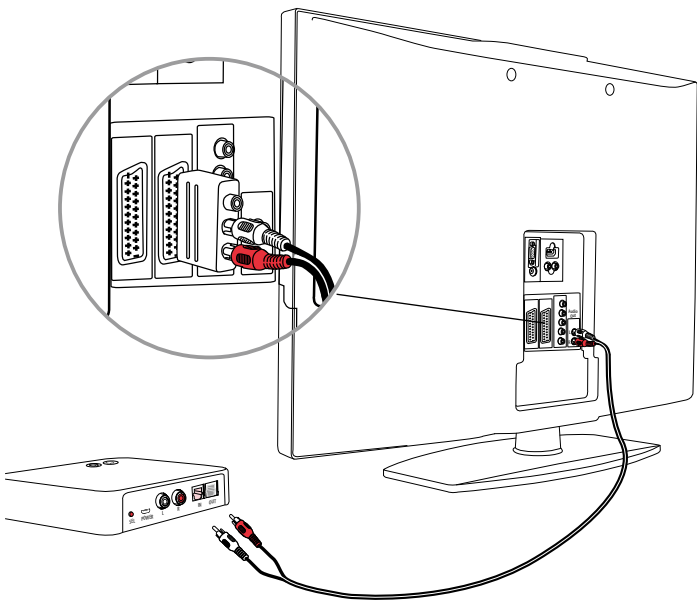
## Connecting Using SCART

Place the TVAdapter 2 in a suitable spot near your TV.

- 1 Connect the RCA cable to the red and white terminals on the SCART adapter.
- 2 Connect the SCART adapter to the SCART **output** on your TV.
- 3 Connect the RCA connectors to the TVAdapter 2 RCA connector ports.
- 4 Refer to page 24 for pairing of the TVAdapter 2 with your SoundGate device.



The audio output on the SCART connector can be dependent on the source selected on the TV.



## Pairing SoundGate with the TV Adapter 2

TVAdapter 2 may be used with all versions of SoundGate. The first time your SoundGate is used with the TVAdapter 2, the SoundGate must be paired to the TVAdapter 2.

Please read the following instructions, specific to the version of your SoundGate device.



SoundGate 3  
SoundGate 2



SoundGate



Pairing is done only once and will normally not have to be repeated.



## Pairing with SoundGate 3/SoundGate 2

Ensure the TVAdapter 2 is connected to a power outlet and the SoundGate battery is charged and powered ON. The TV indicator on the TVAdapter 2 and the LED indicator on the SoundGate should be illuminated green.

- 1 Press and hold the SoundGate Power Key for 5–6 seconds until the SoundGate LED indicator starts flashing blue rapidly.



- 2 Place the SoundGate on top of the TVAdapter 2 – the pairing can take up to 60 seconds. The pairing is completed when the TVAdapter 2 Power indicator turns blue and then stable orange.

- 3 When the Power indicator on the TV Adapter 2 and the TV indicator on the SoundGate are both stable orange, the TV Adapter 2 is connected with the SoundGate and ready to stream audio.



## Pairing with SoundGate

Ensure the TVAdapter 2 is connected to a power outlet and the SoundGate battery is charged and the key lock is in the unlocked (green) position. The TV indicator on the TVAdapter 2 should be illuminated green.

- 1 Press and hold the SoundGate Bluetooth® key for 6–8 seconds until the blue light flashes rapidly.
- 2 Place the SoundGate on top of the TVAdapter 2 – the pairing can take up to 60 seconds. The pairing is completed when the TVAdapter 2 Power indicator turns blue and then stable orange.
- 3 When the Power indicator on the TVAdapter 2 and the Audio Key on the SoundGate are both stable orange, the TVAdapter 2 is connected with the SoundGate and ready to stream audio.





# INSTRUCTIONS FOR USE

## TV Listening

You may now begin streaming audio from your TVAdapter 2. Ensure you are within the recommended range of 30 meters (98 feet) from the TVAdapter 2.

### **Begin Streaming**

For optimal use with the TVAdapter 2, ensure the SoundGate device is worn with the neck strap antenna and that the hearing instruments are powered on.

- 1 Press the TV Key on the SoundGate 3/ SoundGate 2 or the Audio Key on the SoundGate to begin streaming.



SoundGate 3  
SoundGate 2



SoundGate

- 2 The TV Key/Audio Key on your SoundGate device will illuminate orange and the Power indicator on the TV Adapter 2 will turn from green to orange. You will hear a confirmation beep in your hearing instruments followed by the sound from the connected TV.

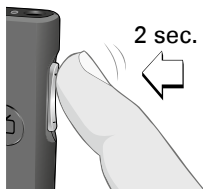
### **Volume Control**

Use the volume button on the SoundGate device to adjust the TV volume level in the hearing instruments. Adjust the volume by pressing up or down briefly.

## Mute

While watching TV it is possible to switch off the microphones in your hearing instruments, so that only the sound from the TV is heard.

Press the Volume Up or Down key for 2 – 3 seconds to mute your hearing instrument microphones. You will hear a confirmation beep indicating that the microphones in the hearing instruments are now muted.



SoundGate 3  
SoundGate 2



SoundGate

## Stop Streaming

Briefly press the TV Key/Audio Key on your SoundGate device to discontinue streaming from the TV Adapter 2. The TV Key/Audio Key on the SoundGate device will turn off and the Power indicator on the TV Adapter 2 will turn green. You will hear a confirmation beep in your hearing instruments.

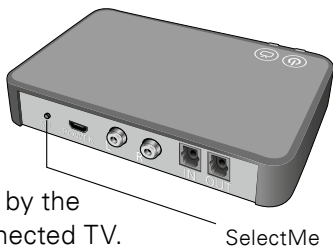


# SelectMe

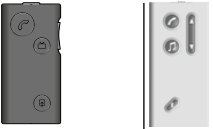





















With SoundGate 3/SoundGate 2 you can use multiple TVAdapters 2 devices (e.g., one in the living room and one in the bedroom). To use the SelectMe functionality your SoundGate device must be programmed with the latest firmware version. If you are in doubt, please contact your hearing care professional.

## To Switch between the TV Adapter 2 Devices

- 1 Make sure you are not connected to any TVAdapter 2, i.e., the SoundGate should be turned on, but not active.
- 2 Briefly press the SelectMe button on the back of the TVAdapter 2 you wish to hear the sound from.
- 3 The TVAdapter 2 is automatically connected. You will hear a confirmation beep in your hearing instruments by the sound from the connected TV.



# Visual Indicators

Devices					
Indicators	Power	TV	Front	Power	TV
In pairing mode					
TVAdapter 2 streaming from RCA input					
TVAdapter 2 streaming from TOSLINK input					
Unsupported format on TOSLINK input					

## Additional Information

### **Range**

The TV Adapter 2 has a range of up to 30 meters (98 feet) to the SoundGate 3/SoundGate 2 device, depending on furniture and walls. Within this range you can listen to the TV with good sound quality (i.e. without “crackle” sound).

### **Turn Off the TV Adapter 2**

The TV Adapter 2 uses very little power so it is not necessary to turn it off.

## Technical Information

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

The emission power from the TVAdapter 2 is max. 47.4 dB $\mu$ V/m @ 3 meters and is well below international emission limits for Human Exposure. The TVAdapter 2 complies with international standards concerning Electromagnetic Compatibility.

This instrument contains a module with:



FCC ID: U28TVBOX03

IC: 1350B-TVBOX03

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

## **FCC Statement**

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.

To comply with FCC RF exposure requirements, the device and the antenna for this device must be installed to ensure a minimum separation distance of 20 cm or more from a person's body. Other operating configurations should be avoided.

**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 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 separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## **IC Statement**

Operation is subject to the following two conditions:

- 1 This device may not cause interference.
- 2 This device must accept any interference, including interference that may cause undesired operation of the device.

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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

Hereby, SBO Hearing A/S declares that this TV Adapter 2 (model BS-F200) 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

Kongebakken 9

DK-2765 Smørum

Denmark

Use the following switch mode power supply with your

TV Adapter 2: Fuhua, Model No. UE 10W-050020SPC

Input: 100–240 V AC, 150 mA, 50–60 Hz

Output: 5 VDC 200 mA.



# Information and Explanation of Symbols



The CE conformity marking indicates conformance to all applicable European Directives.



This symbol indicates that it is important for the user to read and take into account the relevant information in these instructions for use.



This sign indicates important safety information that must be observed to minimize risks or to avoid hazardous situations.



Important information for handling and product safety.



The crossed-out wheeled bin indicates that the European Directive on waste of electronic equipment applies.



EMC and Radio communications compliance label Australia and New Zealand

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## Service

If the information listed on the previous pages did not solve a problem you are having with your TVAdapter 2 device, please contact your hearing care professional.

Do not attempt to repair your TVAdapter 2 device yourself.

Place stamp with dispenser name and address here:

< >  
8,15 mm

Placeholder  
for FSC logo

FSC  
MIX  
Paper

FSC® C043870

< 15 mm >

9,0 mm

19 mm



SBO Hearing A/S  
Kongebakken 9  
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Denmark  
[www.sbohearing.com](http://www.sbohearing.com)



E2831



Waste from electronic  
equipment must be  
handled according to local  
regulations.



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