

PHILIPS

HearLink

TV Adapter



User Guide

HEA6002

Warranty certificate

Date: _____ Model: _____

Warranty period: _____

Serial no.: _____

Hearing center

International warranty

Your TV Adapter is covered by an international limited warranty issued by the manufacturer for a period of 24 months from the date of delivery. This limited warranty covers manufacturing and material defects in the device itself, but not in accessories such as batteries, cables, power supplies, etc. Problems arising from improper/incorrect handling or care, excessive use, accidents, repairs made by an unauthorized party, exposure to corrosive conditions, damage due to foreign objects entering the device or incorrect adjustments are NOT covered by the limited warranty and may void it. The above warranty does not affect any legal rights that you might have under applicable national legislation governing sale of consumer goods. Your hearing care professional may have issued a warranty that goes beyond the clauses of this limited warranty. Please consult him/her for further information.

If you need service

Take your TV Adapter to your hearing care professional, who may be able to sort out minor problems and adjustments immediately.

Introduction to this booklet

This booklet guides you on how to use and maintain your new TV Adapter. Please read the booklet carefully, including the Warning section. This will help you to achieve the full benefit of your new TV Adapter.

If you have additional questions about the use of your TV Adapter, please contact your hearing care professional.

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

Intended use

The TV Adapter is intended as a wireless transmitter of sound from a TV or from other electronic audio devices to hearing aids.

The TV Adapter is intended to be used by children (> 36 months) and adults together with their hearing solution.

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Package content

The TV Adapter box consists of the following elements:



TV Adapter



Power supply



Mini jack adapter



RCA cable




















TOSLINK
cable



This booklet

TV Adapter overview

Mode	Power indicator	TV indicator
Power on, not paired to any hearing aids		
Pairing complete (steady light 30 secs)		
Power on, not streaming		
RCA inserted and streaming		
No RCA/Audio input		
TOSLINK inserted and streaming (digital)		
TOSLINK inserted and streaming (invalid signal)*		
Fault condition**		

 No light

  Blinking

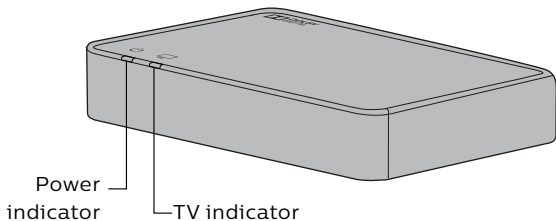
 Fading

 Steady

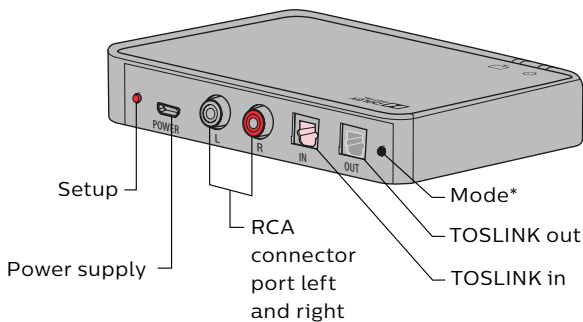
* Try other input connection

** Contact your hearing care professional

Front view



Back view



* Reserved for future use

Installation

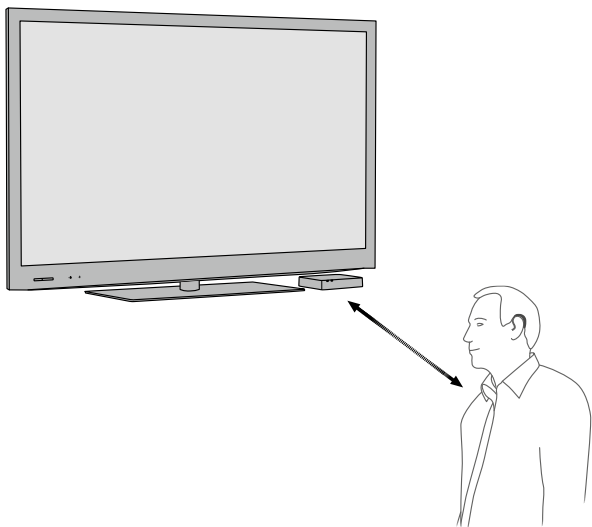
Using the TV Adapter for the first time

Before you can use your hearing aids with your TV, the TV Adapter must be connected to a power outlet, connected to the TV and paired with your hearing aids.

This is a step-by-step guide on how to install the TV Adapter.

Placing the TV Adapter

Place the TV Adapter close to the TV horizontally, with free line of sight to the hearing aids.

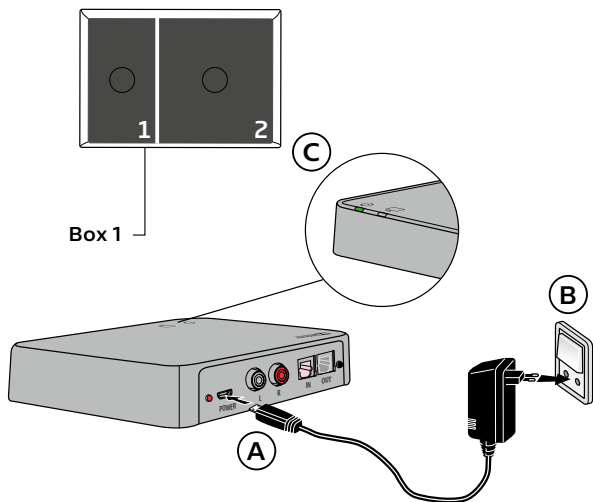


Connecting the TV Adapter to a power outlet

Start by connecting the TV Adapter to a power outlet.

Use the power supply from box 1

1. Plug the power cord into the “power” connector on the TV Adapter (A).
2. Plug the power supply into the mains wall socket (B).
3. Check that the power is turned on (C); after a few seconds both indicators will fade blue to indicate that pairing with your hearing aids is needed. See page 26.



Connecting the TV Adapter to the TV

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

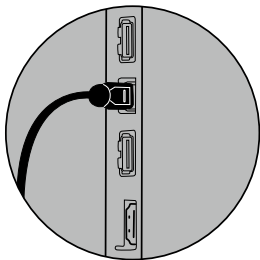
Connection	Page
TOSLINK (either digital stereo PCM or Dolby® Digital*)	18
RCA audio output (L+R)	20
Mini jack output (typically headphone output)	22
SCART audio output (L+R)	24

* Dolby and the double-D symbol are registered trademarks of Dolby Laboratories.

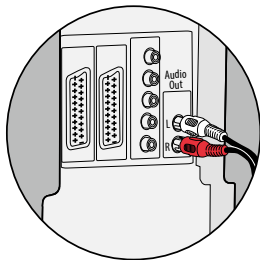
We recommend using TOSLINK.

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

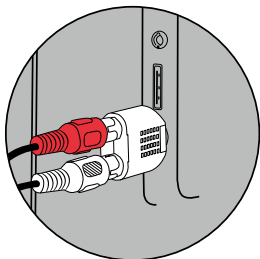
TOSLINK (p. 18)



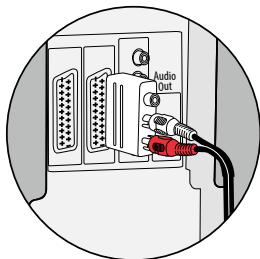
RCA (p. 20)



Mini jack (p. 22)



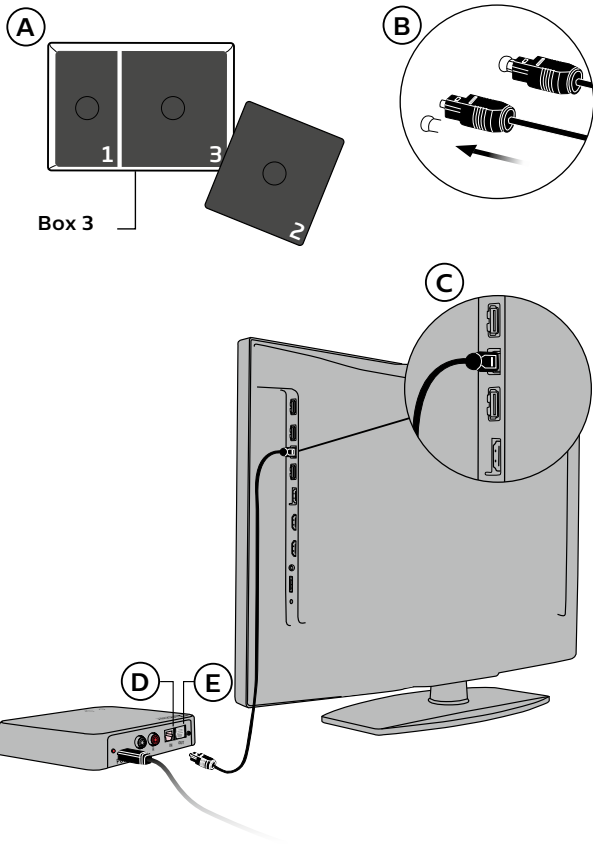
SCART (p. 24)



Connecting using TOSLINK

1. Use the TOSLINK cable from box no. 3 (A).
2. Remove the plastic cap from the TOSLINK cable (B).
3. Connect the TOSLINK cable to the TOSLINK output on your TV/home theater system (C).
4. Connect the TOSLINK cable to the pink TOSLINK input (D) on the TV Adapter.
5. The TOSLINK output (E) may be used to connect other TOSLINK devices such as external Dolby Decoders and surround sound systems.
6. Refer to page 26 for pairing of the TV Adapter with your hearing aid.

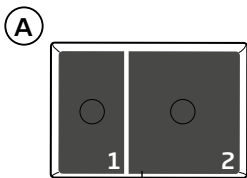
It may be necessary to configure your TV, DVD player or home theater system so that the correct audio output is available on the TOSLINK output.



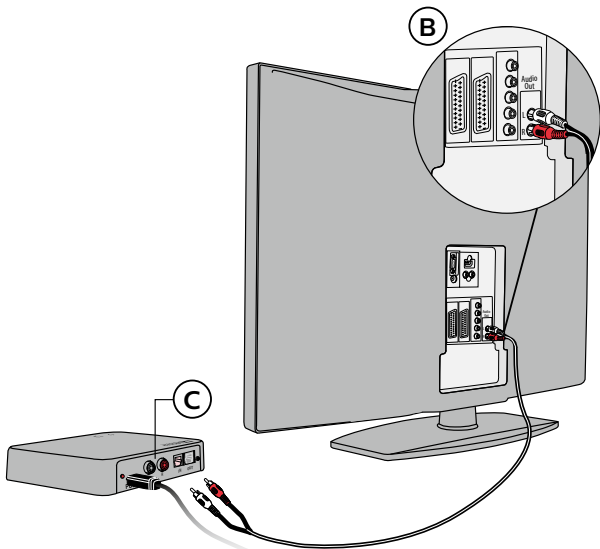
Connecting using RCA

1. Use the RCA cable from box no. 2 (A).
2. Connect the RCA cable to the RCA output on your TV (B) or home theater system. (Typically marked “L – R AUDIO OUT” and found on the TV back or bottom panel.)
3. Connect the RCA cable to the RCA connectors (C) on the back of the TV Adapter.
4. Refer to page 26 for pairing of hearing aids with the TV Adapter.

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



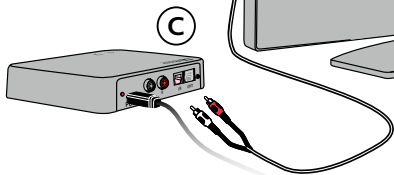
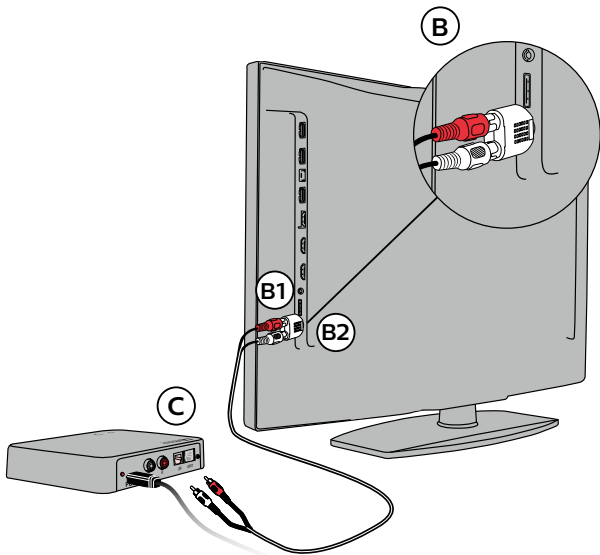
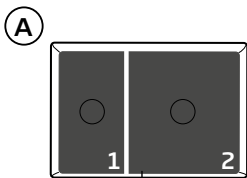
Box 2



Connecting using mini jack adapter

1. Use the mini jack adapter from box no. 2 (A).
2. Connect the RCA cable to the mini jack adapter (B1).
3. Connect the mini jack to the TV, this is typically the headphone output (B2).
4. Connect the RCA connectors to the TV Adapter RCA input (C).
5. Refer to page 26 for pairing of the TV Adapter with your hearing aids.

The TV speakers may be muted when connecting to the headphone output, and sound only heard through the hearing aids/TV Adapter.



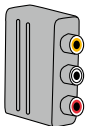
Connecting using SCART

1. Use a SCART adapter* (A).
2. Connect the RCA cable to the red and white terminals on the SCART adapter (B).
3. Connect the SCART adapter to the SCART output on your TV (C).
4. Connect the RCA connectors to the TV Adapter RCA input (D).
5. Refer to page 26 for pairing of the TV Adapter with your hearing aids.

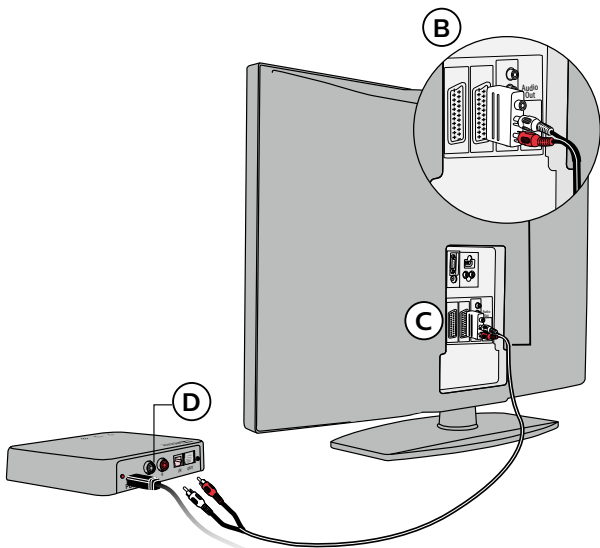
* The SCART adapter is an accessory which is not included in the package content. If you need a SCART adapter, please contact your hearing care professional.

The audio output on the SCART connector can be dependent on the source selected on the TV. For example, some TVs will only make TV sound available on the SCART output (i.e. not sound from a connected DVD player).

SCART adapter (accessory)



A



Pairing the TV Adapter with your hearing aids

Before using the TV Adapter, it must be paired with your hearing aids.

Pairing is only required once, and takes around 20 – 60 seconds.

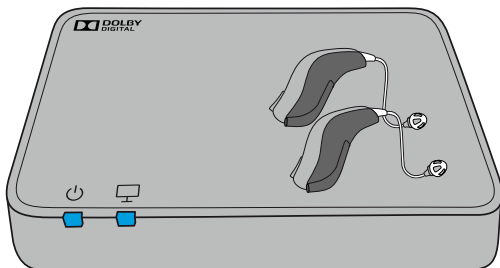
This TV Adapter can be paired to as many hearing aids as you like. All users will be able to hear the same sound. Please see page 36 for more details.

Important notice

Please refer to your hearing aid's User Guide for details on the functionality of your specific hearing aid solution.


Make sure the TV Adapter is powered on.

Switch the hearing aids off and on to initiate pairing mode. Please refer to the User Guide for your specific hearing aid model.



Place both hearing aids close to, or on top of the TV Adapter.

Pairing is completed when the power indicator and the TV indicator are blue for about 30 secs.

TV Adapter	Description
	Pairing completed

Start TV sound using your hearing aids

Once a TV Adapter has been paired with your hearing aids, it will be available as a program in your hearing aids. To listen to TV simply press and hold the program switch on your hearing aids to change program.

The program cycle will depend on the programs already available in your hearing aids.

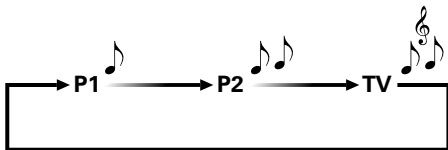
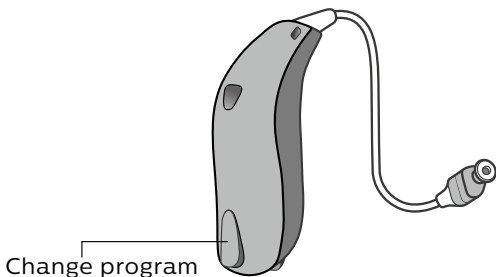
The TV program indicator – which is different from hearing aid program indicators – will be heard once the TV program is selected.

Important notice

Please refer to your hearing aid's User Guide for details on the functionality of your specific hearing aid solution.

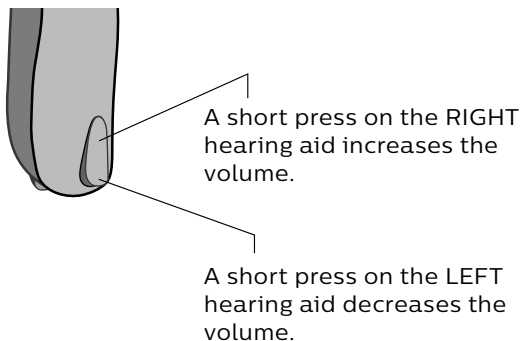
Turn off TV sound using your hearing aids

To stop the sound from the TV simply change to the desired program in your hearing aids.



Volume control using your hearing aids

Use the Volume Control on your hearing aid to adjust the TV volume level in both hearing aids. Adjust the volume by pressing up or down briefly. Press briefly, repeatedly, for further adjustments.



The TV volume in the hearing aids is normally not affected by volume adjustments from the TV remote control.

Important notice

Please refer to your hearing aid's User Guide for details on the functionality of your specific hearing aid solution.

Start TV sound using the hearing aid Remote Control

The Remote Control is an optional accessory to your wireless hearing aids.

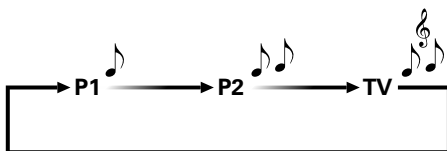
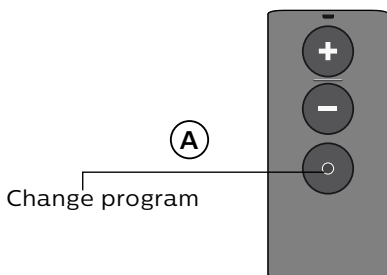
Once a TV Adapter has been paired to your hearing aids it will be available as a program. To listen to TV simply press the program selector and change program (A).

The program cycle will depend on the programs already available in your hearing aids.

The TV program indicator – which is different from program indicators – will be heard once the TV program is selected.

Turn off TV sound using your Remote Control

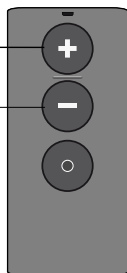
To stop the sound from the TV simply change to the desired program in your hearing aids.



Volume control using your Remote Control

Use the volume buttons on your Remote Control to adjust the TV volume level in both hearing aids.

Adjust the volume by pressing up or down briefly. Repeat the brief press for further adjustments.

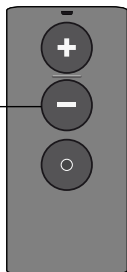


The TV volume in the hearing aids is normally not affected by volume adjustments from the TV remote control.

Mute using your Remote Control

While watching TV you can switch off the microphones in your hearing aids, so that only the sound from the TV is heard.

Press and hold the volume down button for approx. 3 seconds until the surrounding sound is muted. To unmute simply press volume up or down briefly.



The mute and volume functions are optional and can be customized by your hearing care professional.

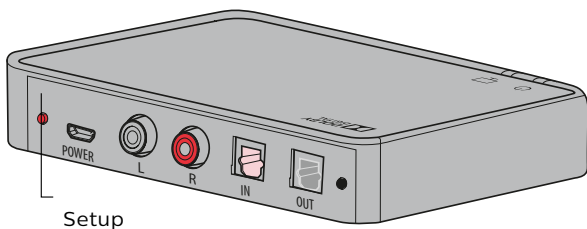
More than one user


An unlimited number of hearing aid users can listen to the sound from one TV Adapter. Pair the hearing aids to the TV Adapter as described on page 26.

Removing a user/clear pairings

To remove a user from your TV Adapter perform a system reset and re-pair the required hearing aids.

1. Reset system: press and hold the setup button for more than 5 seconds.
2. Indicators fade blue to indicate no pairings.
3. Re-pair the required aids (see page 26).



TV Adapter	Description
	No pairings

Cleaning and maintenance

Use a soft, dry cloth to clean the TV Adapter.

Important notice

The TV Adapter must never be washed or immersed in water or other liquids.

Warnings

You should familiarize yourself fully with the following general warnings and the entire contents of this booklet before using your TV Adapter to ensure personal safety and correct use. Consult your hearing care professional if you experience unexpected operations or events with your TV Adapter.

Warnings

Fire hazards

- The power source in your TV Adapter has insufficient energy to cause fire in normal usage conditions.

Interference

- Your TV Adapter has been thoroughly tested for interference according to the most stringent international standards. However, interference between your TV Adapter and other devices may occur, (e.g. some mobile telephones, citizens band devices and other wireless devices). If this occurs, increase the distance between the TV Adapter and the interfering device.

Connection to external equipment

- The safety of the use of the TV Adapter when connected to external equipment with an auxiliary input cable, is determined by the external signal source. When connected to external equipment plugged into a wall outlet, this equipment must comply with IEC-62368 (or IEC-60065, IEC-60950 until June 20, 2019) or equivalent safety standards.

Technical information

Model name	TVA3
Operating conditions	Temperature: +5°C to +40°C (41°F to 104°F) Humidity: 15% to 93%, non-condensing Atmospheric pressure: 700 hPa to 1060 hPa
Storage and transportation conditions	Temperature and humidity shall not exceed the below limits for extended periods during transportation and storage: Temperature: -25°C to +70°C (-13°F to +158°F) Humidity: 15% to 93%, non-condensing
Dimensions	124x80x21 mm; weight 107g
System features	<ul style="list-style-type: none">• Autopairing: TV Adapter will automatically pair with hearing aids in pairing mode• AutoStream: TV Adapter will automatically start streaming audio when a valid audio signal is detected• MultiConnect: TV Adapter can connect to an unlimited number of hearing aids

Compatibility	The TV Adapter works with all versions of Philips hearing aids with 2.4 GHz radio technology
Input connectors/ format	<ul style="list-style-type: none"> • Mini jack 3.5 mm (L+R) (using included cable and converter) • RCA (L+R) • TOSLINK Digital Stereo (PCM) /Dolby Digital®
Output	TOSLINK (buffered output of TOSLINK input)
Range	Up to 15 meters (free line of sight from TV Adapter to hearing aids)
Audio inputs (format)	<ul style="list-style-type: none"> • Stereo analog input (RCA) • Stereo/PCM (TOSLINK) • Dolby Digital® (TOSLINK)
Latency (TV Adapter input to hearing aid speaker)	<p>Analog: 25 ms</p> <p>Digital: 28 ms</p> <p>Dolby Digital®: 45 ms</p>
Line input sensitivity	6 dB Vrms (analog), impedance: 10 KΩ
Audio bandwidth	10 kHz /stereo from input to hearing aids
Dynamic self-adjustment	AGC (analogue inputs) (line in approximation to 0 dB 5 secs)

Status indicators	Power and status LED on front
Colors	Dark gray
Power consumption	Idle, not streaming sound: 0.8 W Streaming sound: 1.5 W
Transceiver:	
Operating frequency	2.402 GHz – 2.480 GHz (ISM Band)
Number of channels	39
Output power	Max. 50 mW equal to 17 dBm dBm EIRP. In compliance with all relevant standards.
Channel bandwidth	1 MHz / 2 MHz
Type of modulation	GFSK / 2GFSK
ITU designator	F7E

The TV Adapter contains a radio transceiver using Bluetooth® Low Energy (BLE) and a proprietary short range radio technology both working at ISM band 2.4 GHz. The radio transmitter is weak and always below 50 mW equal to 17 dBm in total radiated power. The TV Adapter complies with international standards concerning radio transmitters, electromagnetic compatibility and human exposure.

Due to the limited space available on the TV Adapter relevant approval markings can be found in this document.

Additional information can be found in the “Technical Information” section (see pages 42-44).

USA and Canada

This device is certified under:

FCC ID: 2ACAHTVA3

IC: 11936A-TVA3

The device complies with Part 15 of the FCC Rules and with Industry Canada's licence-exempt RSSs.

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.

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

This Class B digital apparatus complies with Canadian ICES-003.








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 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 manufacturer or an experienced radio/TV technician for help.

Radiofrequency radiation exposure Information

This equipment complies with FCC and IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Description of symbols used in this booklet or on the packaging label

	<p>Warnings Text marked with a marking symbol must be read before using the product.</p>
	<p>Manufacturer The product is produced by the manufacturer whose name and address are stated next to the symbol. Indicates the medical device manufacturer, as defined in EU Directives 90/385/EEC, 93/42/EEC and 98/79/EC.</p>
	<p>CE mark The product complies with Medical Device Directive 93/42/EEC.</p>
	<p>Electronic waste (WEEE) Recycle your hearing aids, accessories or batteries according to local regulations or return them to your hearing care professional for disposal. Electronic equipment covered by Directive 2012/19/EU on waste and electrical equipment (WEEE).</p>
	<p>Regulatory Compliance Mark (RCM) The product complies with electrical safety, EMC and radio spectrum requirements for products supplied to the Australian or New Zealand market.</p>
 TA-2016/1772	<p>South Africa ICASA label Indicates that the device has license to be sold in South Africa.</p>
 2016DJ3206	<p>China CMIIT ID Indicates that the device is certified in China.</p>

<div style="border: 1px solid black; padding: 5px; width: fit-content;"> Complies with IMDA Standards DA103820 </div>	<p>Singapore IMDA label Indicates that the device complies with the standards and specification published by Info-Communications Media Development Authority (IMDA) and is compatible with the public telecommunication networks in Singapore and does not cause radio frequency interference to other authorized radio-communication networks.</p>
<p>Rated input: 5.0 V \equiv 0.4 A</p>	<p>Power supply outlet</p>
 <p>[R] 201-160125</p>	<p>Japan TELEC label and Japan JATE label “R” indicates mark for certified radio equipment.</p>
 <p>03564-17-05812</p>	<p>Brazil ANATEL label Indicates that the device is certified and homologated in Brazil.</p>
	<p>Keep dry Indicates a medical device that needs to be protected from moisture.</p>
	<p>Caution symbol Consult instruction for use (User Guide) for warnings and cautions.</p>
<div style="border: 1px solid black; padding: 5px; width: fit-content;"> REF </div>	<p>Catalogue number Indicates the manufacturer’s catalogue number so that the medical device can be identified.</p>
<div style="border: 1px solid black; padding: 5px; width: fit-content;"> SN </div>	<p>Serial number Indicates the manufacturer’s serial number so that a specific medical device can be identified.</p>

CTN	CTN CTN is a commercial unique part-number used for sales and customers to identify each product type wearing Philips brand name.
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REACH Declaration:

REACH requires Philips Hearing Solutions to provide chemical content information for Substances of Very High Concern (SVHC) if they are present above 0.1% of the article weight. No substances on the REACH SVHC list applicable at the time of manufacturing is present in Product HearLink. More recent information can be found on the website www.hearingsolutions.philips.com/REACH.

The manufacturer declares that this TV Adapter is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.

Declaration of Conformity is available at the manufacturer.



SBO Hearing A/S

Kongebakken 9

DK-2765 Smørum

Denmark

www.hearingsolutions.philips.com



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

Notes

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www.hearingsolutions.philips.com

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