

Your StarLink TV Streamer User Manual



Accessory for:

Wireless hearing aids

Congrats on your new TV Streamer!

Your TV Streamer is designed to stream audio from various electronic audio sources — *like televisions, computers, MP3 players, DVD players, and cable boxes* — directly to your wireless hearing aids.

It can simultaneously stream audio to an unlimited number of users, allowing them to share the same listening experience.

Use this simple manual to get started.

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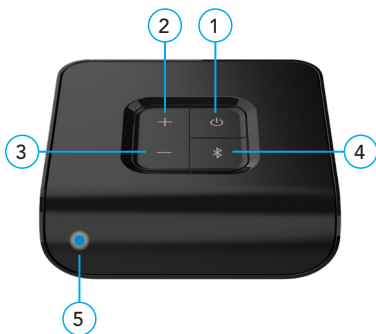
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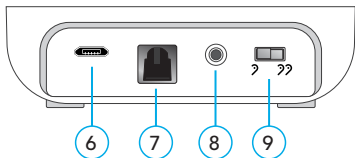
Meet your TV Streamer

Overview

- Power button**
Turns the TV Streamer **OFF/ON**.
- Volume up (+)**
To increase the audio stream volume.
- Volume down (-)**
To decrease the audio stream volume.
- Pair button**
To pair your hearing aids.
- Indicator light**
Provides operational status of the TV Streamer.
- Power supply jack (microUSB)**
For the power adapter.
- Optical TOSLINK jack**
For the Optical TOSLINK cable.
- Analog jack**
For the 3.5mm-to-RCA cable.
- Mono/Stereo switch**
 **Mono**
To use with one hearing aid.
 **Stereo**
To use with two hearing aids.



Back of TV Streamer



Set up your TV Streamer

Power ON/OFF

Use the power button to turn your TV Streamer **ON** or **OFF**:

- **ON** – press the power button. Release when the indicator light glows green.
- **OFF** – press the power button. Release when the indicator light no longer appears.

To pair with hearing aids

Before using your TV Streamer for the first time, you'll need to pair it with your hearing aid(s). This allows your accessory to recognize your hearing aids so they can work together.

STEP 1: Turn **ON** your TV Streamer

STEP 2: Turn your hearing aids **OFF** and **ON**.

- **For CROS hearing aid systems:** Turn **OFF** your hearing aids and CROS transmitter. Next, turn **ON** your hearing aids but leave the CROS transmitter **OFF**.

STEP 3: Pair your TV Streamer with your hearing aid(s):

1. Ensure your hearing aids are not connected to nearby Bluetooth® devices:
 - Turn **OFF** Bluetooth on your mobile phone.
 - Turn **OFF** any wireless accessories already paired to your hearing aids.
2. Place your hearing aids within 6 inches (15 cm) of your TV Streamer.
3. Press the **Pair** button on the TV Streamer. The indicator light will begin to blink blue.
 - **NOTE:** Audio streaming will be temporarily stopped during this step.

4. For a **set** of hearing aids:

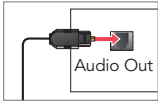
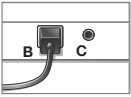
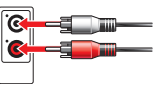
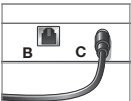
1st status indicator light blink	2nd status indicator light blink	Pairing result	Next step
1	2	Both hearing aids paired	Complete
1	2	Only one hearing aid paired	Repeat 1 – 4 within STEP 3
1	N/A	No hearing aids paired	Repeat 1-4 within STEP 3

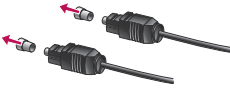
5. For a **single** hearing aid:

Status indicator light blink	Pairing result	Next step
1	Hearing aid paired	Complete
1	Hearing aid not paired	Repeat 1-3 and 5 within STEP 3

To connect your TV Streamer to an electronic audio source

There are several ways to attach an audio source to your TV Streamer. Carefully look at your electronic audio source (e.g., a television, computer, MP3 player, DVD player, or cable box) to determine which AUDIO OUT options it has.

	Insert cable into the AUDIO OUT jack on your electronic audio source	Attach the other end of cable to the rear of the TV device
Optical TOSLINK		Use jack B 
Analog RCA-to-3.5mm	 Note: Connect the red-to-red and white-to-white.	Use jack C 

1. Remove the plastic caps from both ends of the optical TOSLINK cable. 
2. Attach the optical TOSLINK cable into the audio OUT jack on your electronic audio source. Power on your electronic audio source.

- **NOTE:** If there is no TOSLINK audio OUT jack on your electronic audio source, try a different electronic audio source or try the 3.5mm-to-RCA cable.

3. Attach the other end of the optical TOSLINK cable into the optical TOSLINK jack on the back of the TV Streamer.
4. Plug the power adapter into the wall.
5. Insert the power adapter into the power supply jack on the back of the TV Streamer.

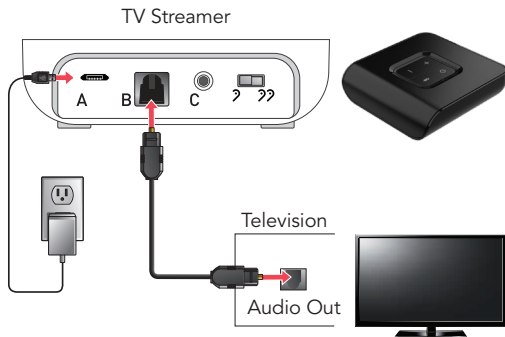


6. The indicator light on your TV Streamer will glow blue for a successful setup. It has detected audio and is now streaming.



- **NOTE:** If the indicator light remains solid green, repeat 1-6 or see *Troubleshooting guide* on p. 13.

Typical setup



Done! Head to the next page to start using your TV Streamer.

To use your TV Streamer

STEP 1: Check that your hearing aids are ON.

Before streaming audio for the first time, ensure your hearing aids are paired to your TV Streamer. See p. 5.

STEP 2: Start/stop streaming audio (from an electronic audio source). Do one of the following:

- **Hearing aid mobile app:** Open the app on your mobile phone or tablet. Select the option to start/stop streaming from **Accessories** screen.
- **Wireless Remote:**
If configured by your hearing care professional, press the Favorite button.
- **Hearing aid user control:**
If configured by your hearing care professional, a specific gesture (e.g., a long press on a user control) can start/stop streaming.



Reminder – Audio streaming will also stop when an incoming audio signal is not detected or if the TV Streamer is turned off.

STEP 3: Adjust the streaming volume.

- Press the volume up (+) or volume down (-) buttons on your TV Streamer.

Indicator light

The indicator light identifies how your TV Streamer is currently operating:

Indicator light status	Operational status
Solid green	ON and not streaming audio
Solid blue	ON and streaming audio
No indicator light appears	OFF
Blinking blue	Hearing aid pairing mode
Solid red	Malfunction or electrical issue

Problems with your TV Streamer? Try these tips. If issues continue, contact your hearing care professional.

Symptom	Possible causes	Solutions
One (or both) hearing aids unexpectedly drops out of audio streaming.	Hearing aids may be on the edge of wireless range.	Move closer to the TV Streamer.
	Battery level in hearing aid can no longer support audio streaming.	Replace hearing aid battery with new one.
	The TV Streamer may not be positioned for optimal streaming.	Re-orient the TV Streamer spatially by turning a few degrees to right or left.
	Large object, such as furniture or a wall, may be degrading signal.	For best performance, your hearing aids should be within line-of-sight of the TV Streamer.

Symptom	Possible causes	Solutions
Indicator light is solid blue, but no streamed sounds are heard in the hearing aids.	Hearing aids are not within wireless range.	Move closer to the TV Streamer.
	Audio stream needs to be manually started to be heard in hearing aids.	Manually start the audio stream via your hearing aid mobile app, wireless Remote, or hearing aid user control.
	Hearing aids are not paired with the TV Streamer.	See <i>Pair with hearing aids</i> on p. 10.
I expect to hear audio streaming, but my indicator light is solid green.	Audio cable may be connected to "audio IN" on electronic audio source.	Ensure the cable is plugged into "audio OUT" jack on the electronic audio source.
	No incoming audio signal is available.	Turn on the electronic audio source.
	Electronic audio source output is not correct format.	Set the digital output on your electronic audio source to PCM or Dolby Audio.

Symptom	Possible causes	Solutions
Indicator light is solid red.	Possible error condition.	Remove power adapter from jack A, wait 5 seconds and re-insert power adapter.
Streamed audio is not synchronized with the television picture.	Many new televisions (such as HDTVs) take a long time to process the video signal, so they may delay the audio to maintain synchronization.	- Try using another audio output jack (which may require a different type of cable) on your television. - Try using another electronic audio source. For example, if currently using cable box, try the audio OUT on a television or vice versa. - Some electronic audio sources (such as televisions or A/V receivers) have a built-in option to adjust the timing sequence of audio and video.

Intended use

The TV Streamer is an accessory to a 2.4 GHz wireless air conduction hearing aid. It is intended as a wireless transmitter of sound from a television or other electronic audio source directly to an air conduction hearing aid.

The TV Streamer is designed to comply with the most stringent Standards of International Electromagnetic Compatibility. However, it is still possible that you may experience interference caused by power line disturbances, airport metal detectors, electromagnetic fields from other medical devices, radio signals and electrostatic discharges.

The TV Streamer is designed to be cleaned with a damp cloth moistened with soapy water.

If you use other medical devices or wear implantable medical devices such as defibrillators or pacemakers and are concerned that your TV Streamer might cause interference with your medical device, please contact your physician or the manufacturer of your medical device for information about the risk of disturbance.

Your TV Streamer should not be used during an MRI procedure or in a hyperbaric chamber or other oxygen-rich environments.

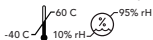
Your TV Streamer is not formally certified to operate in explosive atmospheres such as may be found in coal mines or certain chemical factories.

Use on Aircraft

Your TV Streamer should not be used on aircraft unless specifically permitted by the flight personnel.

International Use

Your TV Streamer is approved to operate at a radio frequency that is specific to your country or region and might not be approved for use outside your country or region. Be aware that operation during international travel may cause interference to other electronic instruments, or other electronic instruments may cause interference to your TV Streamer.



The TV device should be stored and transported within the temperature and humidity ranges of -40°C (-40°F) to +60°C (140°F) and 10%- 95% relative humidity, and altitude limits 70 kPa – 106 kPa (equivalent to altitudes from 1,200 ft (380 m) below sea level to 10,000 ft (3,000 m).

The TV device is designed to operate indoors in the range of temperatures from 0°C (32°F) to 40°C (104°F).

Clinical benefit

The accessory itself does not provide a direct clinical benefit. An indirect clinical benefit is provided by enabling the parent device (wireless hearing aids) to achieve their intended purpose.

We are required by regulations to provide the following warnings:

⚠ WARNING: Use of the TV Streamer directly next to other electronic equipment should be avoided because it could result in improper performance. If such use is necessary, note as to whether your hearing aids and the other equipment are operating normally.

⚠ WARNING: Use of accessories, components or replacement parts other than those provided by the manufacturer of the TV Streamer could result in increased electromagnetic emissions and decreased electromagnetic immunity and could result in degradation of performance.

⚠ WARNING: If Portable Radio Frequency communications equipment is used closer than 30 cm (12 inches) from your TV Streamer, degradation of the performance of your hearing aid could result. If this occurs, move away from the communications equipment.

Although the TV Streamer is not formally certified (IP rated) for protection against dust or water ingress, per IEC 60529, it has been tested to the IP 5X level. This means that the TV Streamer is protected from dust.

The TV Streamer does not contain any user-serviceable parts. Do not open or modify it.

Do not connect the TV Streamer to any devices not described in this manual.

The expected service life of the TV Streamer is 5 years.

Wireless Technical Description

Starkey Laboratories, Inc. TV Streamer operates in the 2.4- 2.4835 GHz band with a maximum effective radiated power of 21 dBm (North America), 10 dBm (rest of world) with transmission modulation type of GFSK and 2 MHz bandwidth. The receiver section of the radio has a bandwidth of 2 MHz.

The TV Streamer has been tested to, and has passed, the following emissions and immunity tests:

- IEC 60601-1-2 radiated and conducted emissions requirements for a Group 1 Class B device as stated in CISPR 11.
- Harmonic distortion and voltage fluctuations affecting the power input source as stated in Table 2 of IEC 60601-1-2.
- RF radiated immunity at a field level of 10 V/m between 80 MHz and 2.7 GHz as well as higher field levels from communications devices as stated in Table 9 of IEC 60601-1-2.

- Immunity to power frequency magnetic fields at a field level of 30 A/m and to proximity magnetic fields as stated in Table 11 of IEC 60601-1-2.
- Immunity to ESD levels of +/- 8 kV conducted discharge and +/- 15 kV air discharge.
- Immunity to electrical fast transients on the power input at a level of +/- 2 kV at a 100 Hz repetition rate.
- Immunity to surges on the power input of +/- 1 kV line to line.
- Immunity to conducted disturbances induced by RF fields on the power input as stated in Table 6 of IEC 60601-1-2.
- Immunity to voltage dips and interruptions on the power input as stated in Table 6 of IEC 60601-1-2.

EU ADVERSE EVENT REPORTING

Any serious incident that has occurred in relation to your devices should be reported to your local Starkey representative and the Competent Authority of the Member State in which you are established. A serious incident is defined as any malfunction, deterioration in the characteristics and/or performance of the device, or inadequacy in the device user manual/labeling which could lead to the death or serious deterioration in the state of health of the user, OR could do so upon recurrence.

FCC information

WIRELESS NOTICES

FCC ID: EOA-24TV

IC: 6903A-24TV (Models 800 and 801)

This device complies with part 15 of the FCC rules and with ISSED Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation of the device. FCC and ISSED Canada require that this device be kept at least 8 inches (20 cm) from a person's body.

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

Hereby, Starkey Laboratories, Inc declares that Starkey Laboratories, Inc. TV Streamer is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. A copy of the Declaration of Conformity can be obtained from the following addresses and from docs.starkeyhearingtechnologies.com.

Hereby, Starkey Laboratories, Inc. declares that the TV Streamer is in compliance with the UK Radio Equipment Regulations SI 2017 as amended. A copy of the UK Declaration of Conformity can be obtained from the following addresses and from docs.starkeyhearingtechnologies.com.

Regulatory information



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Waste from electronic equipment must be handled according to local regulations



Consult user manual



Keep dry

Instructions for Disposal of Old Electronics

Starkey Laboratories, Inc. encourages, the EU requires, and your local community laws may require, that your TV Streamer be disposed of via your local electronics recycling/disposal process.

Please include this user manual when disposing of your TV Streamer.

Notes

Notes



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Patent: www.starkey.com/patents