



SENNHEISER



Set 860

Digital TV Listening System

Instruction manual

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Important safety instructions



- ▶ Read this instruction manual carefully and completely before using the product.
- ▶ Always include this instruction manual when passing the product on to third parties.
- ▶ Do not use an obviously defective product.
- ▶ Only use the product in environments where wireless 2.4 GHz transmission is permitted.

Preventing damage to health and accidents



- ▶ These headphones allow you to set higher volumes than conventional headphones. Protect your hearing from high volume levels.
Permanent hearing damage may occur when headphones are used at high volume levels for long periods of time. Sennheiser headphones sound exceptionally good and provide clear speech intelligibility at low and medium volume levels.
- ▶ To prevent hearing damage, set the volume to a low level before passing the product on to third parties.
- ▶ Do not use the product in an environment that requires your special attention (e.g. in traffic or when performing skilled jobs).
- ▶ Always keep the headphones/MCA 800 charging adapter at least 3.94" (10 cm) from cardiac pacemakers or implanted defibrillators. The headphones/MCA 800 charging adapter contain/s magnets that generate a magnetic field which could cause interference with cardiac pacemakers and implanted defibrillators.
- ▶ Do not use the product near water. To reduce the risk of fire or electric shock, do not expose the product to rain or moisture.
- ▶ Keep the product, accessories and packaging parts out of reach of children and pets to prevent accidents and choking hazards.
- ▶ Only use the power supply units supplied by Sennheiser.

Preventing damage to the product and malfunctions

- ▶ Always keep the product dry and do not expose it to extreme temperatures to avoid corrosion or deformation. The normal operating temperature is from 5 to 40 °C/41 to 104 °F.
- ▶ Use the product with care and store it in a clean, dust-free environment.
- ▶ Switch off the product after use to conserve battery power.
- ▶ Unplug the power supply unit from the wall socket
 - to completely disconnect the product from the power source,
 - during lightning storms or
 - when not using the product for long periods of time.

- ▶ Always ensure that the power supply unit is
 - in a safe operating condition and easily accessible,
 - properly plugged into the wall socket,
 - only operated within the permissible temperature range,
 - not exposed to direct sunlight for longer periods of time in order to prevent heat accumulation.
- ▶ Varnish or furniture polish may degrade the feet of the transmitter, which could stain your furniture. You should therefore place the transmitter on a non-slip pad to avoid potential staining of furniture.
- ▶ Do not operate the product near heat sources.
- ▶ Clean the product only with a soft, dry cloth.
- ▶ Use only attachments/accessories/spare parts supplied or recommended by Sennheiser.

Safety instructions for lithium polymer rechargeable batteries



WARNING

If abused or misused, the standard/rechargeable batteries may leak. In extreme cases, they may even present a risk of

- explosion,
- fire development,
- heat generation,
- smoke or gas development.

	Switch rechargeable battery-powered products off after use.
	Do not charge a product with a built-in rechargeable battery if the product is obviously defective.
	Only use rechargeable batteries and chargers recommended by Sennheiser.
	Only charge rechargeable batteries at ambient temperatures between 5 to 40 °C/41 to 104 °F.
	When not using rechargeable batteries for extended periods of time, charge them regularly (about every three months).
	Do not heat above 70 °C/158 °F, e.g. do not expose to sunlight or throw into a fire.
	Dispose of batteries/rechargeable batteries at special collection points or return them to your specialist dealer.

Intended use/Liability

This wireless TV headphone system is suitable for use with TV sets, hi-fi systems, and home cinema systems and can be connected to analog and digital audio sources.

This product is intended for private domestic use only. It is not suitable for commercial use. This product is also not intended to be used with portable audio devices.

It is considered improper use when the product is used for any application not named in the corresponding product documentation.

Sennheiser does not accept liability for damage arising from abuse or misuse of this product and its attachments/accessories.

Before putting into operation, please observe the respective country-specific regulations.

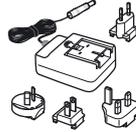
Package contents



RR 800 stethoset receiver with built-in rechargeable battery



TR 860 transmitter with charging station



NT 5-10AW power supply unit with multi-country adapters (EU, UK, US, AU)



1 pair of ear pads for small ears



1 pair of ear pads for pressure-sensitive ears



Optical digital cable, 1.5 m



Stereo audio cable with 3.5 mm jack plugs, 1.5 m



Safety guide



Quick guide



Instruction manual in English, German, French, and Spanish

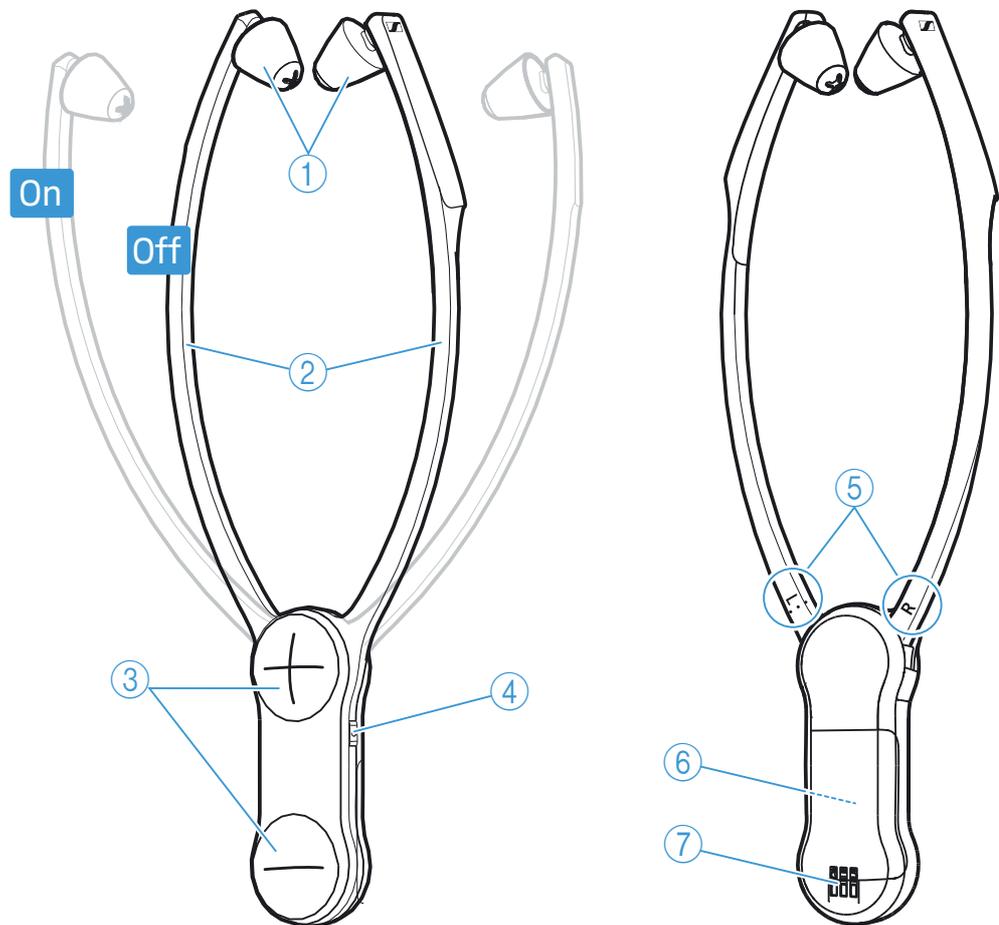
The instruction manual in other languages can be downloaded as a PDF file at www.sennheiser.com/download.



A list of accessories can be found on the Set 860 product page at www.sennheiser.com. For information on suppliers, contact your Sennheiser partner. To find a Sennheiser partner in your country, search at www.sennheiser.com.

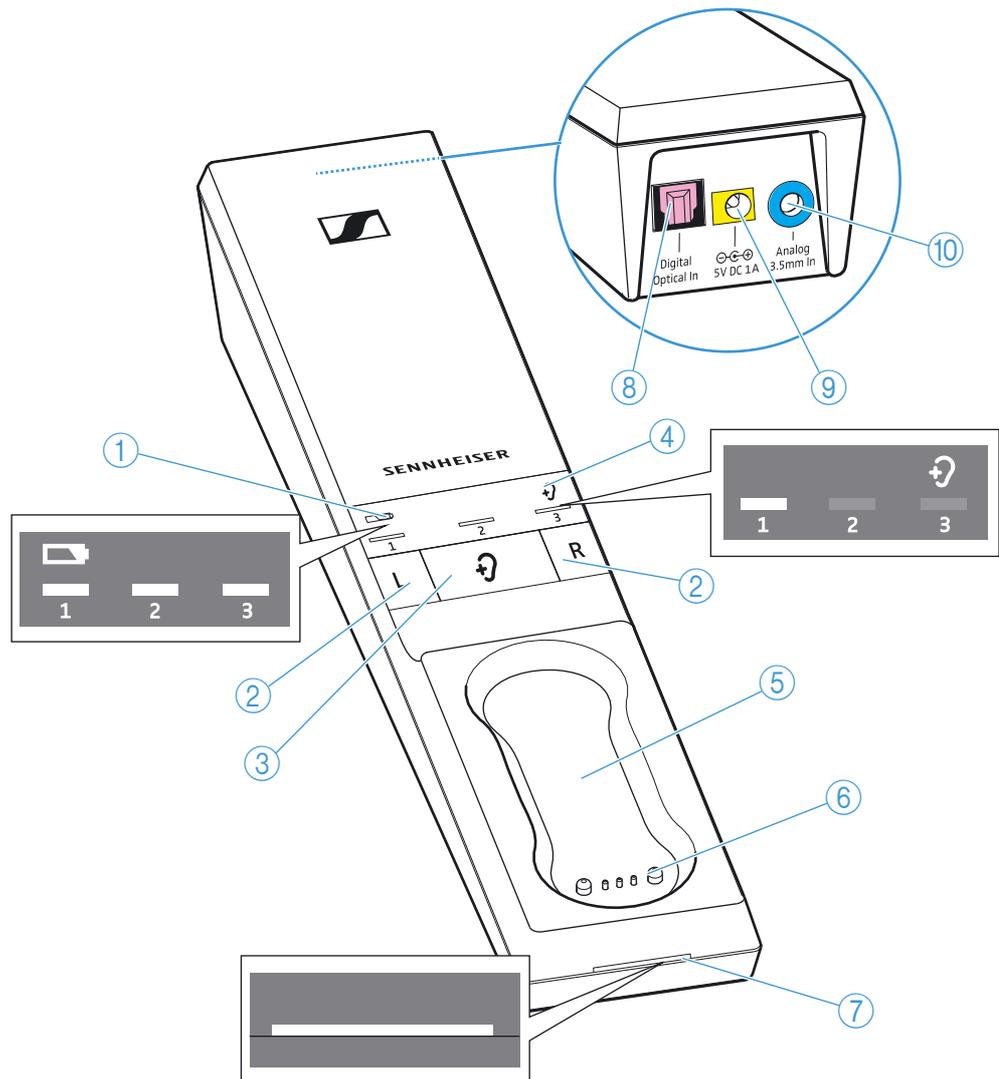
Product overview

Overview of the RR 800 stethoset receiver

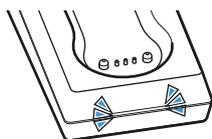


- ① Ear pads, replaceable
- ② Ear bows with on/off function
- ③ Volume buttons + and -
- ④ *Speech intelligibility* button
- ⑤ **R** marking for the right ear and **L** marking for the left ear
- ⑥ Built-in rechargeable battery
- ⑦ Charging contacts

Overview of the TR 860 transmitter



- ① **Battery LED** , indicating the charging process/remaining operating time of the receiver (see page 16 and 17)
- ② Balance buttons for right ear **R** and left ear **L**
- ③ **Hearing profile button** , for selecting the hearing profiles (see page 24)
- ④ **Hearing profile LED**,  indicating the activated hearing profile (see page 24)
- ⑤ Charging compartment for stethoset receiver
- ⑥ Charging contacts for stethoset receiver with holding magnets
- ⑦ **Transmitter status LED** (see page 9)
- ⑧ **Digital Optical In** audio input (marked pink) for connecting a digital audio source (optical)
- ⑨ **5V DC 1A** socket (marked yellow) for connecting the power supply unit
- ⑩ **Analog 3.5 mm In** audio input (marked blue) for connecting an analog audio source (3.5 mm jack socket)



Overview of the *Transmitter status* LED

<i>Transmitter status</i> LED	The transmitter...
—	... is in standby mode.
 lights up white	... and the stethoset receiver are connected. The speech intelligibility function is deactivated (see page 26).
 lights up blue	... and the stethoset receiver are connected. The speech intelligibility function is activated (see page 26).
 flashes blue and white	... has detected an incompatible digital audio signal (see page 12).

i The LEDs on the transmitter indicate the current operating state. If you are not pressing any button on the stethoset receiver or the transmitter, the LEDs automatically dim after approx. 30 seconds to not disturb you.

Overview of the acoustic signals/beeps

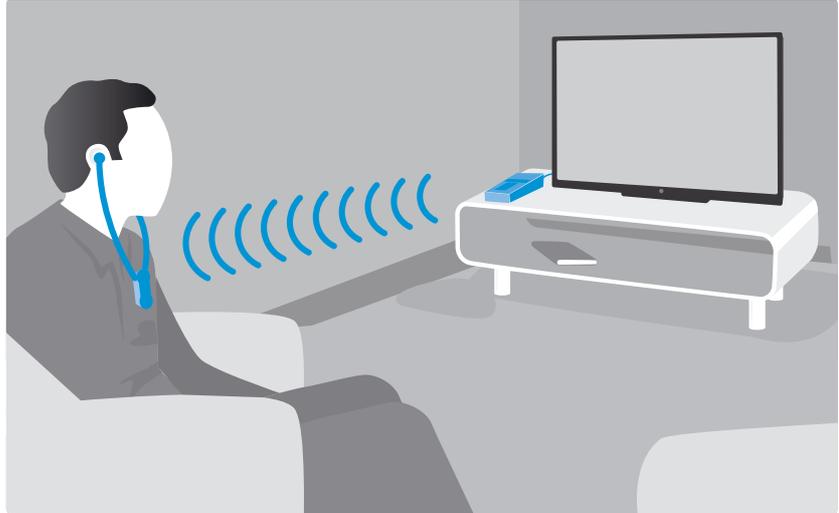


Beeps...	Meaning
during operation, 2 beeps	The rechargeable battery is almost empty, recharge the rechargeable battery (see page 16).
during operation, no audio transmission, 5 beeps	The receiver is outside the transmission range (see page 38).
when changing the volume	The maximum or minimum volume is reached (see page 22).
when changing the balance setting	The maximum or minimum balance setting is reached (see page 23).

Putting the Set 860 into operation

Setting up the transmitter

- ▶ Choose a suitable place near your sound source.
- ▶ Separate the transmitter from other wireless devices in the room by at least 50 cm/20" to avoid interference.
- ▶ Do not place the transmitter close to metal objects such as shelf bars, reinforced concrete walls, etc. as this can decrease the transmitter's range.



Connecting the transmitter to an audio source

You can connect the transmitter either to a digital or an analog audio source (e.g. a TV and a stereo hi-fi system).

If you connect an audio source to **both** inputs (digital and analog), only the analog audio source will be reproduced.

 You can also refer to the beginner's video guides on how to connect your digital wireless headphone system to a TV: www.sennheiser.com/how-to-videos.

- ▶ Switch your audio source off before connecting the transmitter.
- ▶ Check the connection possibilities of your audio source (audio output, usually marked "OUT").
- ▶ Select the corresponding connection cable and, if necessary, a suitable adapter
- ▶ To connect the transmitter to your audio source, refer to the connection diagram suitable for your audio source (see the following chapters). Follow the color codings on the transmitter and on the cables.

Connection possibilities of the audio source		Color coding on the transmitter	Connection cable	Page
A	Optical (digital) 		Optical digital cable	12
B	3.5 mm jack socket (analog) 		Stereo audio cable	13
C	RCA (analog) 		Stereo audio cable with RCA adapter (3.5 mm jack socket to 2 RCA plugs; optional accessory)	14
D	SCART (analog) 		Stereo audio cable with SCART adapter (3.5 mm jack socket to SCART connector; optional accessory)	14

 Accessories and adapters are available from your local Sennheiser partner.

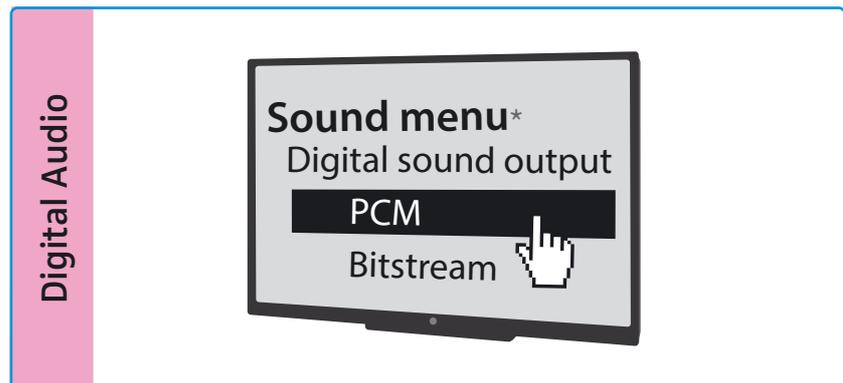
A

Connection possibility A: optical (digital)

To achieve the best possible listening experience, connect the transmitter to your TV or hi-fi system using the supplied optical digital cable.

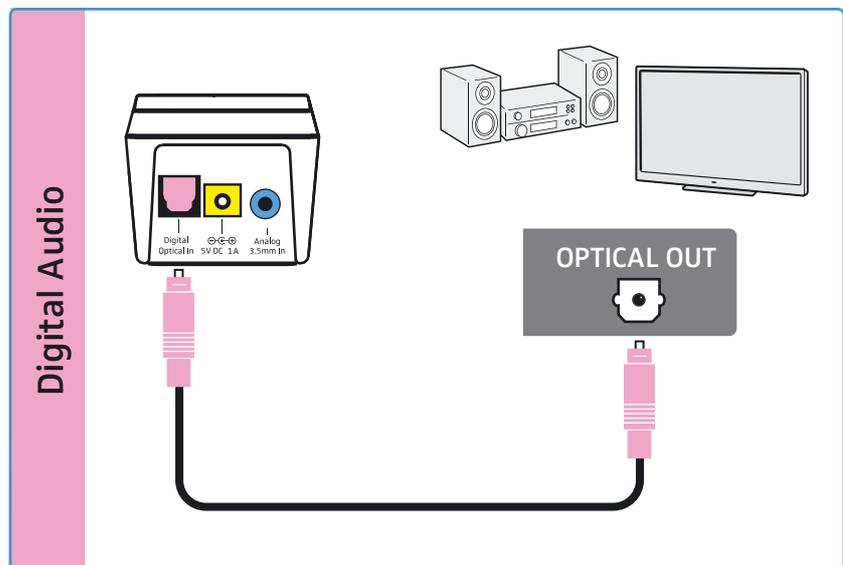
Note that your wireless headphone system only supports digital signals coded in the **PCM** format. Information on how to set the audio format of the connected audio source to PCM can be found in the Sound menu or in the instruction manual of your device.

If an incompatible digital audio signal is being received, the *Transmitter status* LED flashes white and blue. Audio cannot be reproduced.



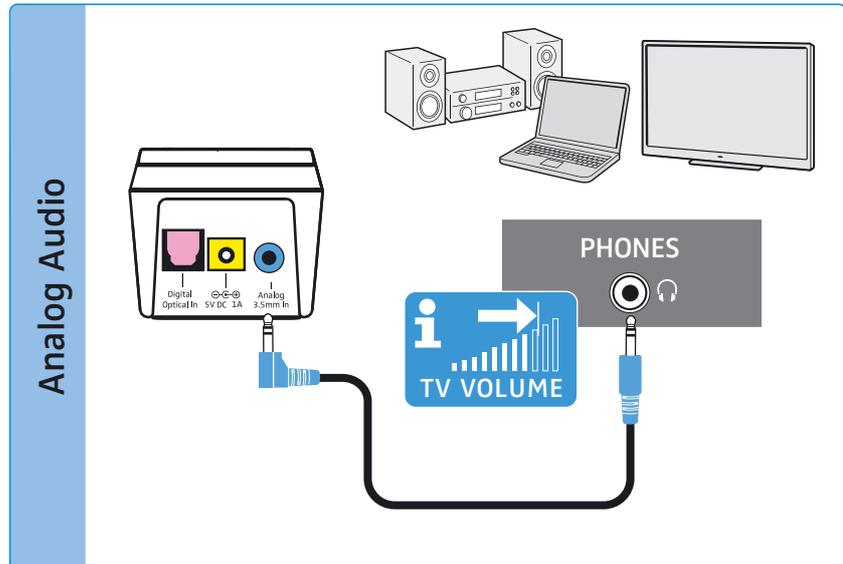
* The appearance of the Sound menu can vary depending on the device you are using.

- ▶ Connect the optical digital cable to the pink **Digital Optical In** audio input of the transmitter and to the optical output of your audio source.



B**Connection possibility B: 3.5 mm jack socket (analog)**

- ▶ Connect the stereo audio cable to the blue **Analog 3.5 mm In** audio input (3.5 mm jack socket) of the transmitter and to the 3.5 mm headphone socket of your audio source.



- i** Adjust the volume of the headphone socket on your TV/audio source **to at least a medium level**.

This improves the quality of wireless audio transmission. For detailed information, please refer to the instruction manual of your TV/audio source.

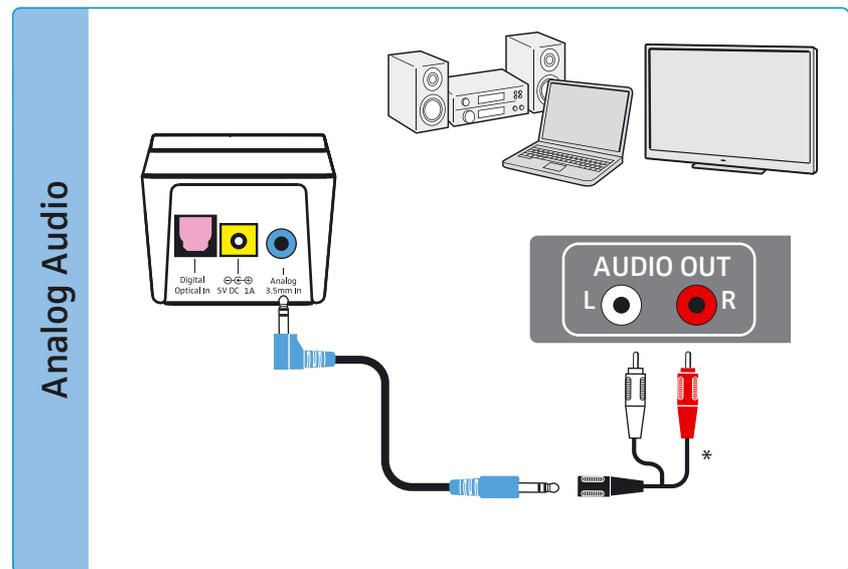
If the headphones socket on your audio source is a 6.3 mm/1/4" jack socket, you require an adapter (3.5 mm jack plug to 6.3 mm/1/4" jack plug, optional accessory) for the supplied 3.5 mm stereo audio cable.

Some TV models mute the loudspeakers when you connect the transmitter to the 3.5 mm headphone socket. Other TV models have their own menu for adjusting the volume of the headphone socket. Check the menu of your TV for information on how to deactivate the muting function or adjust the volume. Alternatively, connect the TV and the transmitter using a different connection possibility (A, C or D).

C

Connection possibility C: RCA sockets (analog)

- ▶ Plug the RCA adapter* onto the stereo audio cable.
- ▶ Connect the stereo audio cable to the blue 3.5 mm jack socket of the transmitter.
- ▶ Connect the RCA connectors to the RCA sockets (mostly labeled "AUDIO OUT" or $\ominus \rightarrow$) of your audio source. Connect the red connector to the red RCA socket and the white connector to the white or black RCA socket.

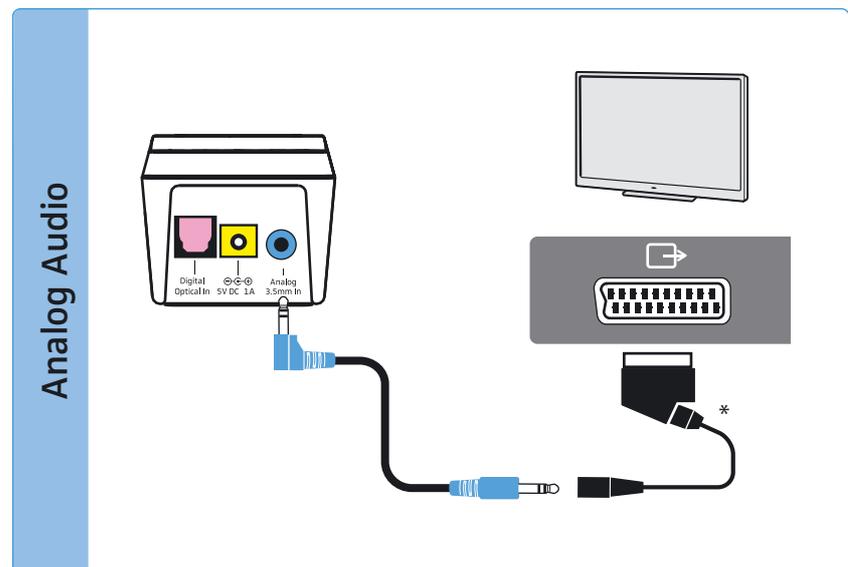


* optional accessory

D

Connection possibility D: SCART socket (analog)

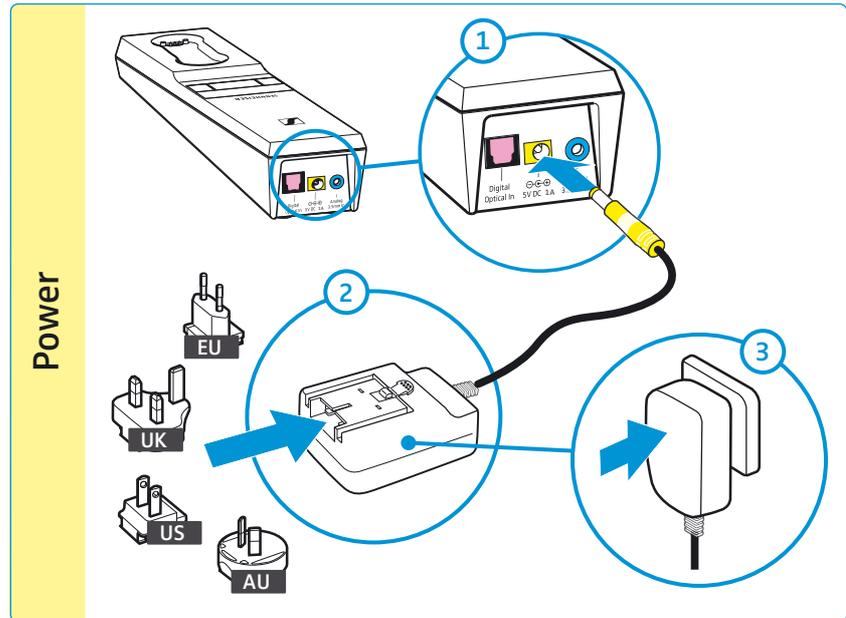
- ▶ Plug the SCART adapter* onto the stereo audio cable.
- ▶ Connect the stereo audio cable to the blue 3.5 mm jack socket of the transmitter.
- ▶ Connect the SCART connector to the SCART socket (mostly labeled $\boxleftarrow \rightarrow$ or \boxrightarrow) of your audio source.



* optional accessory

Connecting the transmitter to the power supply system

- 1 Connect the connector of the power supply unit to the yellow socket of the transmitter.
- 2 Select a suitable country adapter and slide it onto the power supply unit until it clicks audibly into place.
- 3 Plug the power supply unit into the wall socket.
All LEDs on the transmitter light up for 5 seconds. The transmitter is in standby mode.

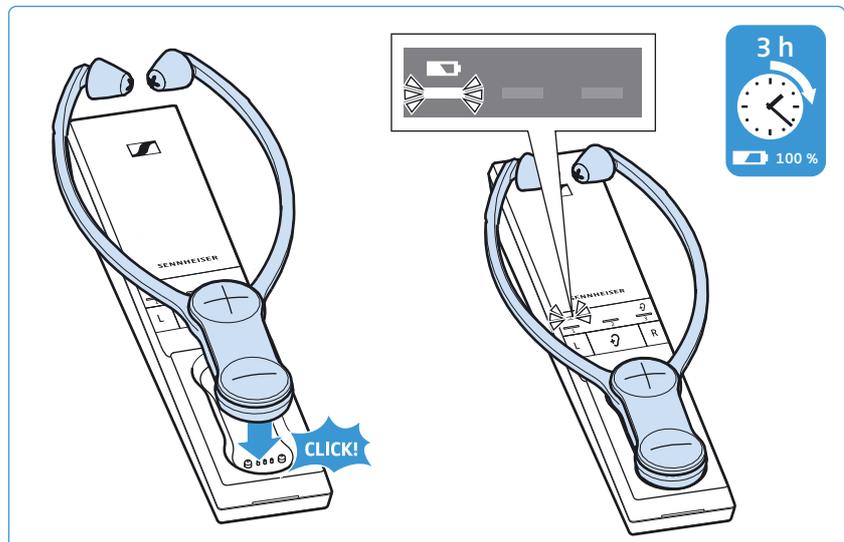


Charging the stethoset receiver's rechargeable battery

A complete charging cycle takes **about 3 hours**. Before using the receiver for the first time, charge its rechargeable battery for a complete charging cycle without interruption.

When the rechargeable battery is almost empty, you hear 2 beeps in the stethoset receiver. The *Battery* LED  on the transmitter lights up white. The stethoset receiver switches off after a few minutes.

- ▶ Place the stethoset receiver into the transmitter's charging compartment so that the volume buttons face upwards. The stethoset receiver is magnetically oriented to the correct position. The stethoset receiver automatically switches off and the *Battery* LED  on the transmitter lights up white. The LED segments display the charge status of the rechargeable battery. When the rechargeable battery is fully charged, all LED segments light up white.



Battery LED 	Meaning
 –	The transmitter is not charging.
 1 st LED segment flashes	The rechargeable battery is being charged. Less than 1/3 of the charge capacity is reached.
 1 st LED segment lit, 2 nd LED segment flashes	The rechargeable battery is being charged. Up to 1/3 of the charge capacity is reached.
 1 st + 2 nd LED segments lit, 3 rd LED segment flashes	The rechargeable battery is being charged. Up to 2/3 of the charge capacity is reached.
 All LED segments lit	The rechargeable battery is fully charged.
 <i>Battery</i> LED flashes rapidly	A charging error/battery error has occurred (see page 28).

i Always store the stethoset receiver in the transmitter's charging compartment to ensure that it is fully charged when needed. The intelligent battery charging technology prevents overcharging.

i The display during charging can be set so that it automatically switches off after 30 seconds (see page 32).

Displaying the remaining operating time of the rechargeable battery

When you switch the stethoset receiver on, the *BatteryLED*  displays the remaining operating time/charge status.

<i>BatteryLED</i> 	Meaning
 <i>BatteryLED</i> flashes slowly	Rechargeable battery is empty; recharge the rechargeable battery
 1 st LED segment lit	approx. 6 hours of operating time
 1 st + 2 nd LED segments lit	approx. 12 hours of operating time
 All LED segments lit	approx. 18 hours of operating time

To indicate that the operating time is decreasing, each LED segment slowly dims before it goes off completely.

If the actual operating time differs widely from the specified values, the rechargeable battery is probably exhausted and should be replaced. Information on the rechargeable battery can be found on page 28.

i The display of the remaining operating time can be set so that it automatically switches off after 30 seconds (see page 32).

i If more than one stethoset receiver is connected to the transmitter, the remaining operating time/charge status cannot be displayed.

Using the charging reminder function



When the stethoset receiver is switched off and the transmitter automatically switches off (standby mode), the *BatteryLED*  will flash back and forth for 10 minutes to remind you to charge the stethoset receiver.

▶ Charge the stethoset receiver by placing it into the transmitter's charging compartment (see page 16).
The LED stops flashing and the charging process starts.

i You can also switch off the charging reminder function (see page 32).

Selecting and replacing the ear pads

You can choose between:

- ear pads for larger ears (pre-mounted on delivery)



- ear pads for smaller ears

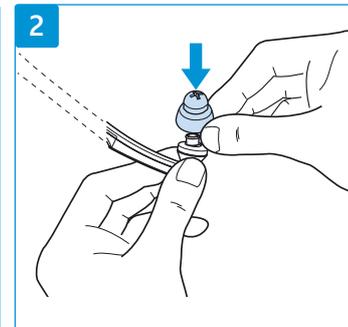
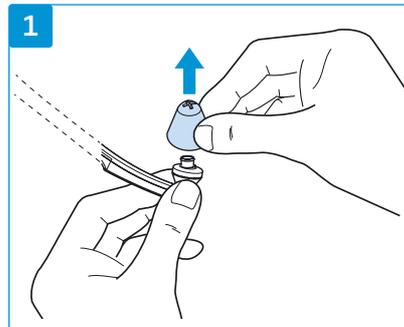


- ear pads for pressure-sensitive ears



To replace the ear pads:

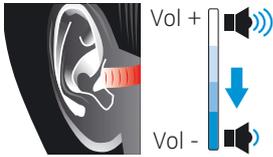
- 1 Carefully remove the ear pads from the stethoset receiver.
- 2 Put the other ear pads on the stethoset receiver.



 Spare ear pads in different materials and forms are available from your Sennheiser partner.

Using the Set 860

Switching the wireless headphone system on



WARNING

Danger of hearing damage due to high volumes!

This receiver allows you to set higher volumes than conventional devices. Constant high-volume use can cause hearing damage.

- ▶ Before putting the stethoset receiver on, set the volume on the receiver to a low level.
- ▶ Do not expose yourself to high volume levels for extended periods of time.
- ▶ Use a hearing profile (see page 24) that improves especially speech intelligibility without the need for a high volume.



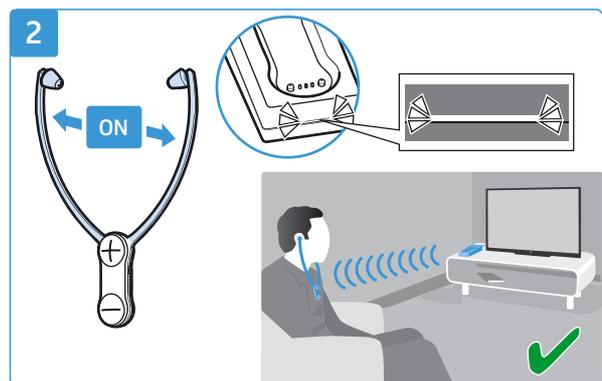
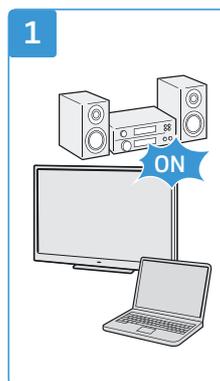
- 1 Switch your audio source on.

If the transmitter is connected to the headphone socket (see page 13) of your TV/audio source, adjust the volume of the headphone socket on your TV/audio source to at least a medium level.

- 2 Take the stethoset receiver out of the transmitter's charging compartment and pull the ear bows apart so that you can put the receiver on.

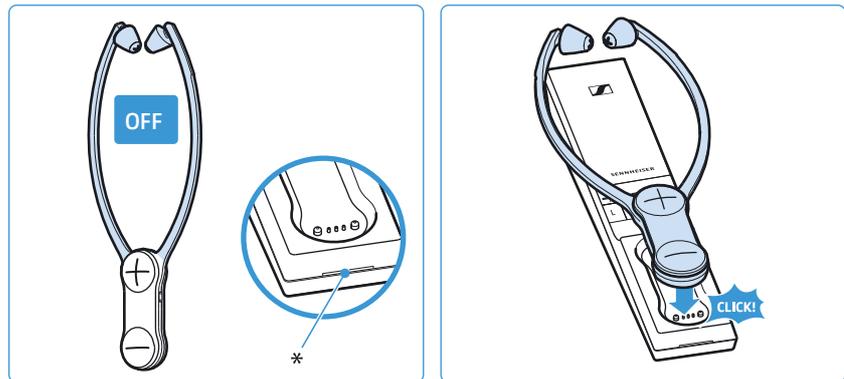
The stethoset receiver automatically switches on when you pull the ear bows apart. The transmitter automatically switches on and the *Transmitter status* LED lights up white or blue. The audio transmission starts.

The remaining operating time of the stethoset receiver is displayed on the transmitter (see page 17).



Switching the wireless headphone system off

- ▶ Take the stethoset receiver off so that the ear bows fold inwards. The stethoset receiver automatically switches off after 20 seconds. The transmitter automatically switches off (standby) when there is no stethoset receiver connected. The *Transmitter status* LED goes off.
- ▶ Always store the stethoset receiver in the transmitter's charging compartment to ensure that it is fully charged when needed. The charging process starts (see page 16).



* LED goes off

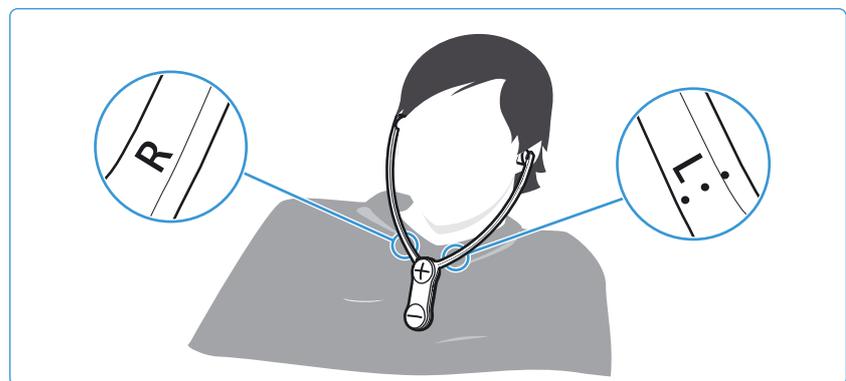
- i** If the stethoset receiver is outside the transmission range for more than 5 minutes or if the transmitter receives no audio signal for more than 30 minutes, the wireless headphone system switches off automatically (standby).

To disconnect the transmitter from the power supply system (e.g. when you are on holiday):

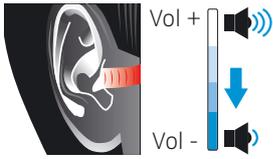
- ▶ Unplug the power supply unit from the wall socket.

Wearing the stethoset receiver

- ▶ Wear the stethoset receiver so that it hangs freely from your ears and rests lightly on your chest. When putting the stethoset receiver on, observe the **L** (left) and **R** (right) markings on the rear of the ear bows. The volume buttons face away from your body to facilitate ease of use.
- ▶ Wear the stethoset receiver so that
 - the ear pads are positioned just in front of your ear canals.
 - you feel a gentle pressure on your ears. The ear pads adapt to your ear form. If you find the ear pads uncomfortable, try the ear pads for smaller ears (Package contents, see page 18).
 - the stethoset receiver hangs freely from your ears and rests lightly on your chest.



i Spare ear pads in different materials and forms are available from your Sennheiser partner.



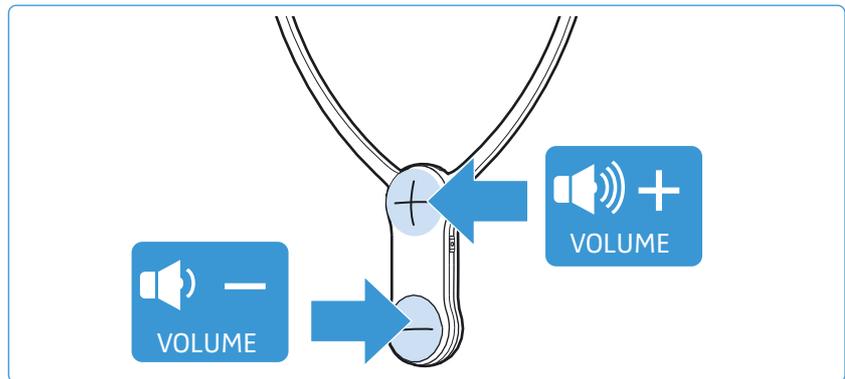
Adjusting the volume



WARNING

Danger of hearing damage due to high volumes!

- ▶ Before putting the stethoset receiver on, set the volume on the receiver to a low level.
- ▶ Do not expose yourself to high volume levels for extended periods of time.
- ▶ Press the volume button **+** or the volume button **-** until the volume is adjusted to a comfortable level. When the minimum or maximum volume is reached, you hear a beep in the stethoset receiver.



- i** If you have set a very high volume level and switch the TV headphone system off and on again, the volume is reset to a moderate level to protect your hearing.

Adjusting the balance

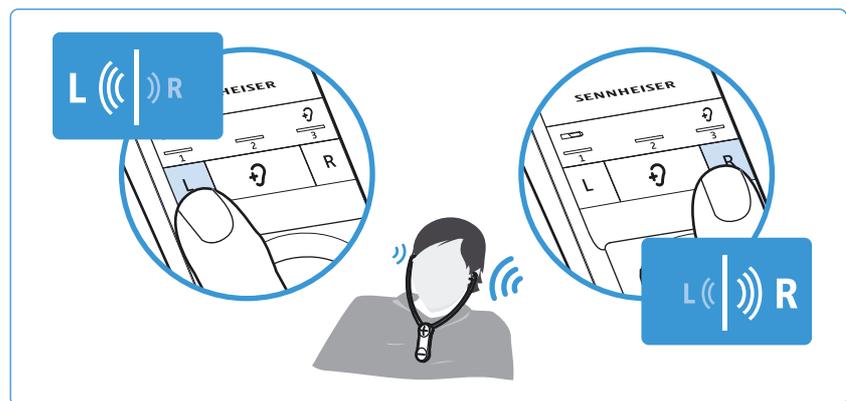
The balance buttons allow for left/right volume adjustment. Adjust the balance so that you hear equally well with both ears.

i The balance setting is stored on the stethoset receiver. If you are using several receivers with a transmitter, the respective receivers are optimally adjusted to match the personal hearing preferences of the users (e.g. you and your partner). Please note that the personal hearing preferences can only be adjusted when only stethoset receiver is connected to the transmitter.

i You can switch your headphone system from stereo to mono in order to be able to hear all details on either the right or left ear (see page 30).

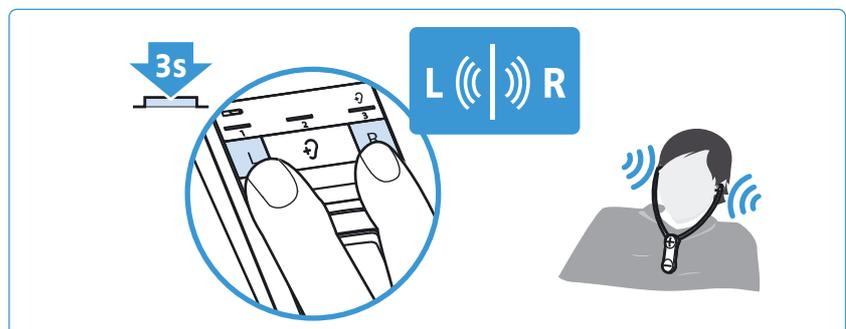
▶ Press the balance button **R** (right) or **L** (left) on the transmitter to gradually increase or reduce the volume for your right or left ear.

When the minimum or maximum balance setting is reached, you hear a beep via the receiver.



To reset the balance setting to the middle setting:

▶ Simultaneously press the balance buttons **R** (right) and **L** (left) on the transmitter for 3 seconds.



i To prevent accidental adjustment of the balance settings, you can activate the settings protection function (see page 33).

Selecting a hearing profile for sound enhancement

The hearing profiles allow you to alter the sound of the audio signal in order to improve the speech intelligibility and to adjust the sound to suit your preferences. The profiles are used to specifically change certain frequency ranges by e.g. boosting or attenuating low-frequency or high-frequency tones.

All hearing profiles feature a compression function which compensates for volume differences by boosting the volume of quiet passages and reducing the volume of loud passages if necessary.

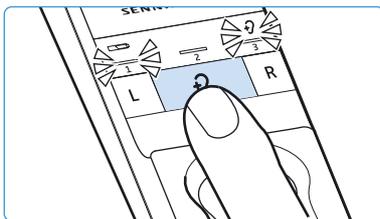
i The balance setting is saved on the stethoset receiver. If you are using several receivers with a transmitter, the respective receivers are optimally adjusted to match the personal hearing preferences of the users (e.g. you and your partner). Please note that the personal hearing preferences can only be adjusted when only stethoset receiver is connected to the transmitter.

Displaying the activated hearing profile

The activated hearing profile is not permanently displayed.

To check the activate hearing profile:

- ▶ Switch the stethoset receiver on by putting it on (see page 19).
- ▶ Briefly press the *Hearing profile* button  on the transmitter. The currently activated hearing profile is displayed for 10 seconds.



Activated hearing profile	<i>Hearing profile</i> LED 	Sound enhancement	Compression
–	 No LED segment lit	The sound from the connected audio source is reproduced unchanged.	no
Hearing profile 1	 1 st LED segment lit	Low-frequency tones are slightly boosted to provide a warm, full sound. High-frequency tones are reproduced less piercing and clanking.	yes
Hearing profile 2	 2 nd LED segment lit	High-frequency tones are strongly boosted to provide a crystal-clear sound, especially for sibilants and high-frequency tones such as twittering of birds.	yes
Hearing profile 3	 3 rd LED segment lit	Low-frequency tones are attenuated so that they cannot mask high-frequency tones.	yes

i A graphic representation of the hearing profiles can be found on page 40.

Selecting a hearing profile

To select the hearing profile that best suits you, proceed as follows:

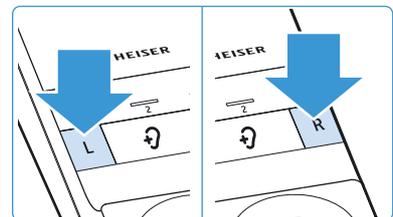
- 1 Switch your audio source on and select a program where speech is foregrounded.



- 2 Put the stethoset receiver on and make sure that only this receiver is connected to the transmitter. Otherwise, a hearing profile cannot be adjusted.



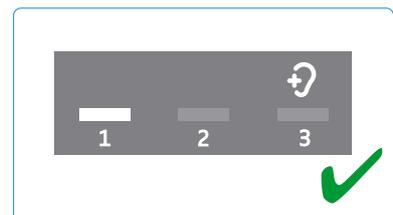
- 3 Use the **L** and **R** buttons on the transmitter to adjust the balance (see page 23). This ensures that each subsequently selected hearing profile is perfectly matched to your left/right balance setting.



- 4 Press the *Hearing profile* button  on the transmitter for 2 seconds to select the next hearing profile. Press the button again for 2 seconds to switch to the next hearing profile.



- 5 Test which of the hearing profiles (1, 2 or 3) gives you the best sound quality and helps you to hear best. Your individual hearing profile is adjusted and saved on the stethoset receiver.



 Since your level of hearing impairment may change over time, we recommend that you repeat the selection of the hearing profile from time to time.

 If you switch to the next hearing profile, the speech intelligibility function is automatically deactivated so that you can hear the hearing profile unchanged (see page 26).

 To prevent accidental adjustment of the hearing profile settings, you can activate the settings protection function (see page 33).

Activating/deactivating the speech intelligibility function

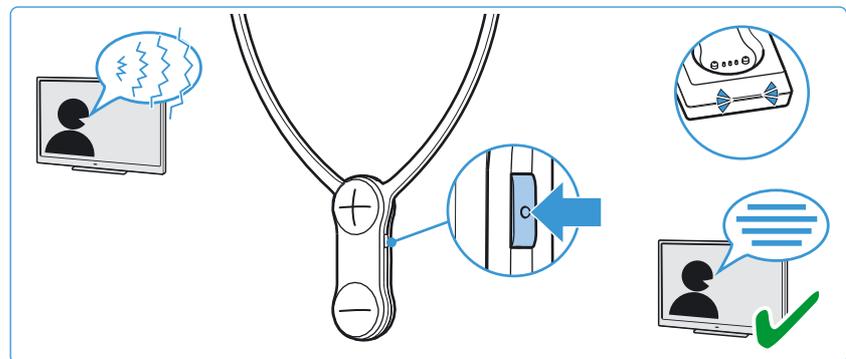
When speech is mixed with annoying background noise, speech may be difficult to understand.

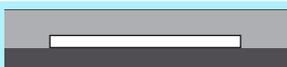
The speech intelligibility function automatically detects and reduces annoying background noise. The audio signal is permanently analyzed and adjusted accordingly so speech is foregrounded and easier to understand.

Application examples

Application	Speech intelligibility function	Advantage
TV motion pictures, TV series or audio books	activated	Dialogs muffled by background music and noise are easier to understand.
Sportscasts	activated	The presentation muffled by background noise in the stadium is easier to understand.
Music	deactivated	No speech, the speech intelligibility function is not needed.

- ▶ Press the *Speech intelligibility* button to activate or deactivate the function.

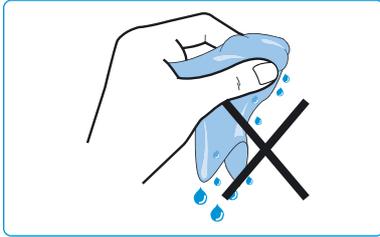


Transmitter status LED	Speech intelligibility function
 lights up blue	activated Annoying background noise is effectively reduced, speech becomes clearer and easier to understand.
 lights up white	deactivated

i The speech intelligibility function can also be used in addition to one of the hearing profiles 1-3.

i If you are using several receivers with a transmitter, the speech intelligibility function is activated or deactivated for all receivers.

Cleaning and maintaining the Set 860



CAUTION

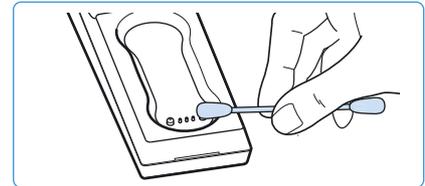
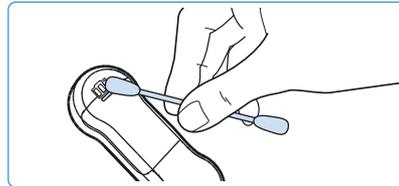
Liquids can damage the electronics of the product!

Liquids entering the housing of the product can cause a short-circuit and damage the electronics.

- ▶ Keep all liquids far away from the product.
- ▶ Do not use any solvents or cleansing agents.

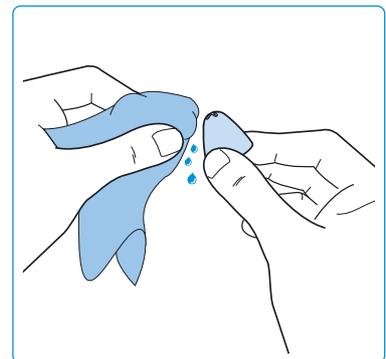
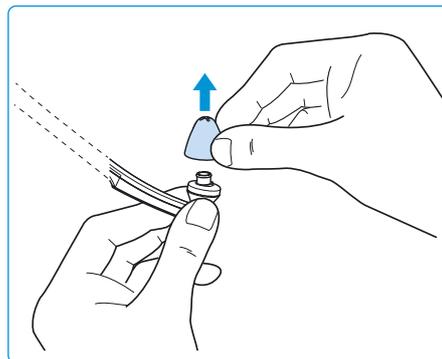
To clean the wireless headphone system:

- ▶ Switch your wireless headphone system off and disconnect the transmitter from the socket before cleaning.
- ▶ Clean the product only with a soft, dry cloth.
- ▶ Clean the charging contacts on the stethoset receiver and in the charging compartment from time to time using e.g. a cotton swab.



To clean the ear pads:

- ▶ Carefully remove the ear pads from the stethoset receiver.
- ▶ Clean the ear pads with warm soapy water and rinse thoroughly.
- ▶ Let the ear pads dry completely at room temperature.
- ▶ Put the ear pads back on the stethoset receiver.



i For reasons of hygiene, you should replace your ear pads from time to time. Spare ear pads in different materials and forms are available from your Sennheiser partner.

Replacing the stethoset receiver's rechargeable battery

The BAP 800 rechargeable battery of the stethoset receiver is compactly built into the receiver housing and does not have to be replaced or removed.

If the operating time of the stethoset receiver decreases drastically or if a charging error is displayed during charging (see page 16), the rechargeable battery may be exhausted or defective and has to be replaced.

CAUTION

Danger of damage to the product!

During the warranty period, the rechargeable batteries must only be replaced or removed by an authorized Sennheiser service partner, otherwise the warranty will be null and void.

- ▶ Contact your Sennheiser service partner if the rechargeable batteries need to be replaced or removed.

Outside the warranty period, the rechargeable batteries may be replaced or removed by any qualified service center in an appropriate manner. Instructions for qualified service centers on how to replace or remove the rechargeable batteries are available from your Sennheiser service partner.

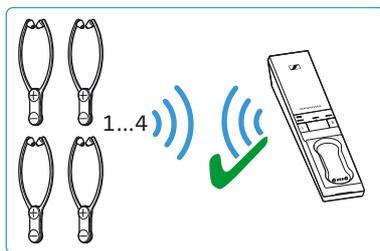
You need suitable tools for replacement. We therefore recommend to have the rechargeable battery replaced by your Sennheiser service partner. To find a Sennheiser service partner in your country, search at www.sennheiser.com.

Using additional functions

The following additional functions are not required for normal use of the wireless headphone system. You can, however, extend the potential use of the system and adjust some of the functions to your individual needs.

Pairing one or several stethoset receivers with the transmitter

The stethoset receiver and the transmitter of your wireless headphone system are factory pre-paired. The following steps are only necessary if you want to pair additional stethoset receivers with the transmitter.

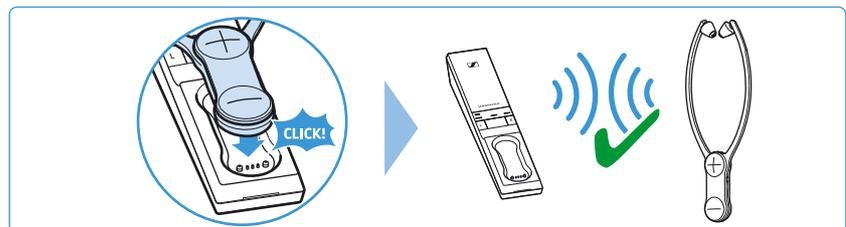


You can simultaneously use up to 4 paired stethoset receivers with your transmitter. All other paired and switched-on receivers cannot connect to the transmitter.

i If more than one stethoset receiver is connected to the transmitter, the remaining operating time/charge status and the hearing profile cannot be displayed. In addition, the balance and a hearing profile cannot be adjusted. These functions can only be used/adjusted when only one stethoset receiver is connected to the transmitter.

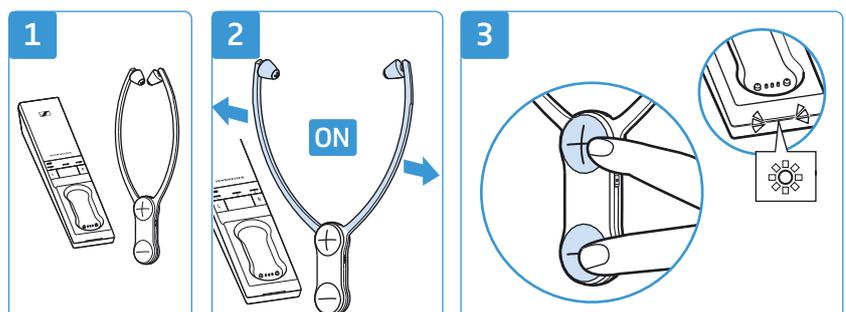
Option A (contact pairing)

- ▶ Place the stethoset receiver into the transmitter's charging compartment. The stethoset receiver is paired with the transmitter.



Option B (proximity pairing)

- 1 Place the stethoset receiver as close as possible to the transmitter.
- 2 Switch the stethoset receiver on by pulling the ear bows apart.
- 3 Simultaneously press and hold the volume buttons $+/-$. Once pairing is completed, the *Transmitter status* LED flashes white. Release the buttons.



Switching between stereo and mono operation

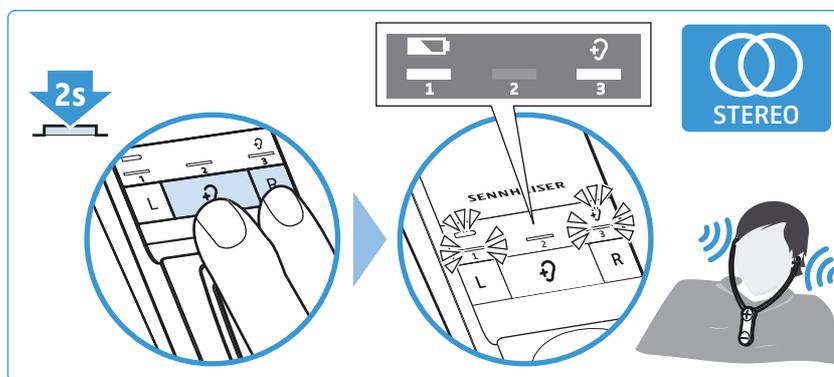
With certain sound recordings, voice or audio signals are recorded on one channel only (right or left stereo channel). This can result in a loss of individually recorded voices or instruments, especially when you have changed the balance setting.

In order to avoid this effect, you can switch between stereo and mono operation.

This setting is saved on the **transmitter**, independent of the stetho-
set receiver you are using.

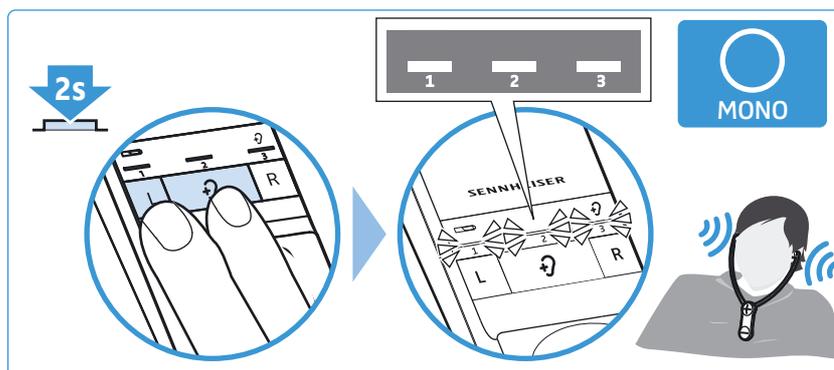
Activating stereo operation

- ▶ Simultaneously press the balance button **R** (right) and the *Hearing profile* button  on the transmitter for 2 seconds.
The LED segment 1 and the *Battery* LED  as well as the LED segment 3 and the *Hearing profile* LED  light up for 10 seconds. Stereo operation is activated.



Activating mono operation

- ▶ Simultaneously press the balance button **L** (left) and the *Hearing profile* button  on the transmitter for 2 seconds.
The LED segments 1, 2 and 3 light up for 10 seconds. Mono operation is activated.



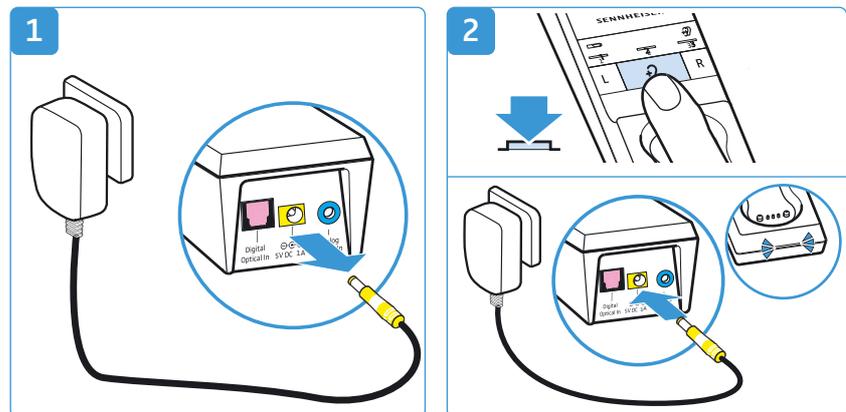
Advanced settings

The advanced settings allow you to adjust the wireless headphone system to your individual needs and to protect the settings against accidental changes.

Activating the protected settings mode

You can change the advanced settings by activating the protected settings mode:

- 1 Disconnect the transmitter from the power supply system by unplugging the connector of the power supply unit.
- 2 Keep the *Hearing profile* button  pressed and connect the transmitter to the power supply system by connecting the connector of the power supply unit to the yellow socket of the transmitter.



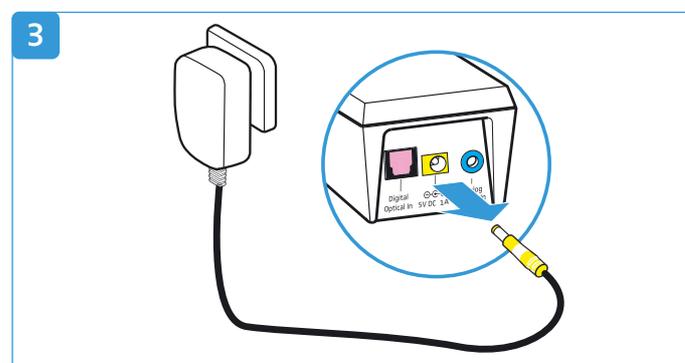
The protected settings mode is activated. The *Transmitter status* LED flashes blue. The LED segments indicate the current settings as specified in the following chapters:

- battery status display (see page 32)
- charging reminder function (see page 32)
- settings protection function (see page 33)

Deactivating the protected settings mode and saving the advanced settings

To save the advanced settings and to deactivate the protected settings mode:

- 3 Disconnect the transmitter from the power supply system by unplugging the connector of the power supply unit.



Battery status display

This setting is saved on the **transmitter**, independent of the stetho-
set receiver you are using.

To change the battery status display:

- ▶ Make sure that the protected settings mode is activated (see page 31).
- ▶ Press the Balance button **L**.



Status and display of the <i>Battery</i> LED	Function/behavior
permanently activated (operation and charging)*  1 st LED segment lit	The current charge status is permanently displayed during charging. The remaining charge status is permanently displayed during operation.
activated for 30 seconds (operation and charging)  1 st LED segment off	The current charge status is displayed for 30 seconds during charging. Then all LEDs go off. The charging process is continued. The remaining charge status is displayed for 30 seconds during operation. The battery status display then goes off.

* factory setting

- ▶ Save the setting by disconnecting the transmitter from the power supply system (see page 31).

Charging reminder* function

This setting is saved on the **transmitter**, independent of the stetho-
set receiver you are using.

To activate or deactivate the function:

- ▶ Make sure that the protected settings mode is activated (see page 31).
- ▶ Press the Balance button **R**.



Status and display of the charging reminder function	Function/behavior
activated*  3 rd LED segment lit	When you switch the stetho- set receiver off and the transmitter switches to standby mode, the battery status display will flash for 10 minutes to remind you to charge the stetho- set receiver.
deactivated  3 rd LED segment off	After switching the wireless headphone system off, all LEDs remain off.

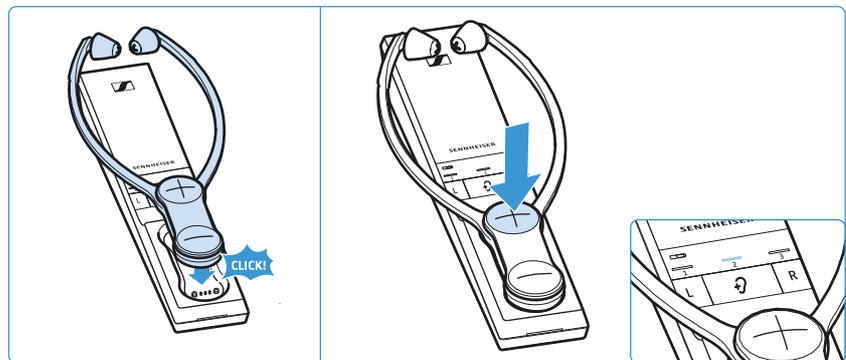
* factory setting

- ▶ Save the setting by disconnecting the transmitter from the power supply system (see page 31).

Settings protection function

The settings protection function prevents accidental adjustment of the hearing profile and the balance setting (this protection function is saved on the **stethoset receiver**). Switching between stereo and mono operation on the transmitter is no longer possible (this protection function is saved on the **transmitter**).

- ▶ Make sure that your stethoset receiver's balance setting and hearing profile are correctly adjusted (see page 23 and 24) and that the transmitter is set to stereo or mono operation as desired (see page 30).
- ▶ Make sure that the protected settings mode is activated (see page 31).
- ▶ Place the stethoset receiver into the transmitter's charging compartment.
- ▶ Press the volume button **+** on the stethoset receiver to activate the settings protection function.



Status and display of the settings protection function	Function/behavior
activated  2 nd LED segment lit	The activated hearing profile and the balance setting for the stethoset receiver cannot be changed/deactivated. Switching between stereo and mono operation on the transmitter is not possible.
deactivated*  2 nd LED segment off	The hearing profiles can be changed at any time (see page 24), the balance setting can be changed (see page 23) and you can switch between stereo and mono operation (see page 30).

* factory setting

- ▶ Save the setting by disconnecting the transmitter from the power supply system (see page 31).

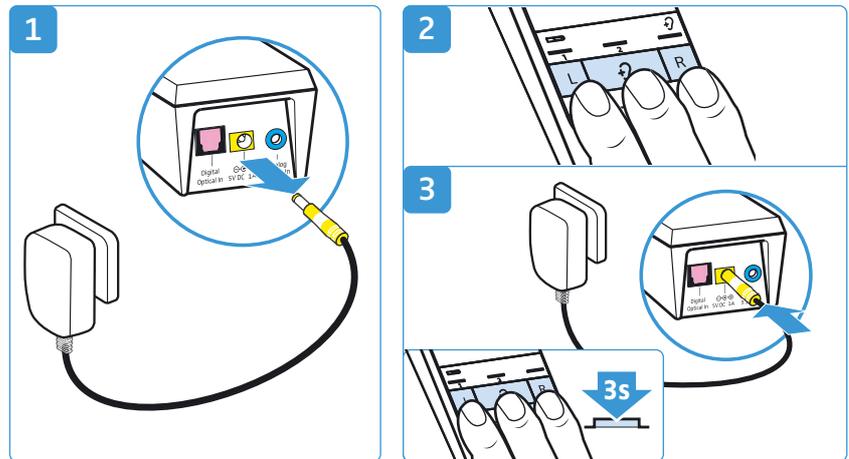
i If you are using several stethoset receivers and want to protect the settings from accidental adjustment, you can place the stethoset receivers, one after the other, into the transmitter's charging compartment to activate the settings protection function (for the hearing profile, the balance setting and stereo/mono operation).

Restoring the factory default settings

To restore the transmitter to the factory settings:

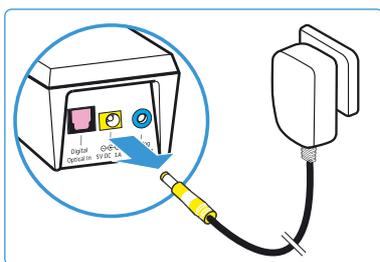
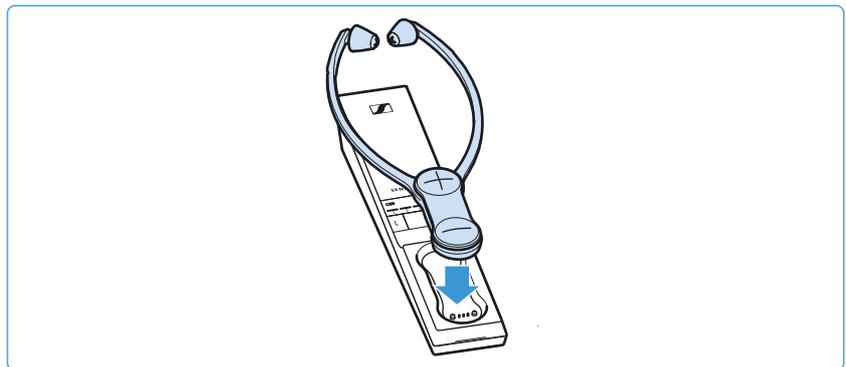
- 1 Disconnect the transmitter from the power supply system by unplugging the connector of the power supply unit.
- 2 Simultaneously press and hold the buttons **L**, **↻** and **R**.
- 3 Connect the transmitter to the power supply system by connecting the connector of the power supply unit to the yellow socket of the transmitter while keeping the 3 buttons pressed for at least 3 seconds.

All LEDs on the transmitter flash. The transmitter settings are restored to the factory settings.



To restore a stethoset receiver to the factory settings:

- ▶ Place the stethoset receiver for 5 seconds into the transmitter's charging compartment. The settings of the stethoset receiver, including the pairing settings, are also restored to the factory settings.



- i** If you place the stethoset receiver into the transmitter's charging compartment at the very beginning of the restore procedure, the factory settings of the transmitter and the receiver are restored simultaneously.

- ▶ Disconnect the transmitter from the power supply system by unplugging the connector of the power supply unit. The factory settings are restored and you can use the wireless headphone system again.

Charging the rechargeable battery using the MCA 800 charging adapter

If you have purchased an additional stethoset receiver or an optional MCA 800 charging adapter, you can also charge the stethoset receiver using the charging adapter.



WARNING

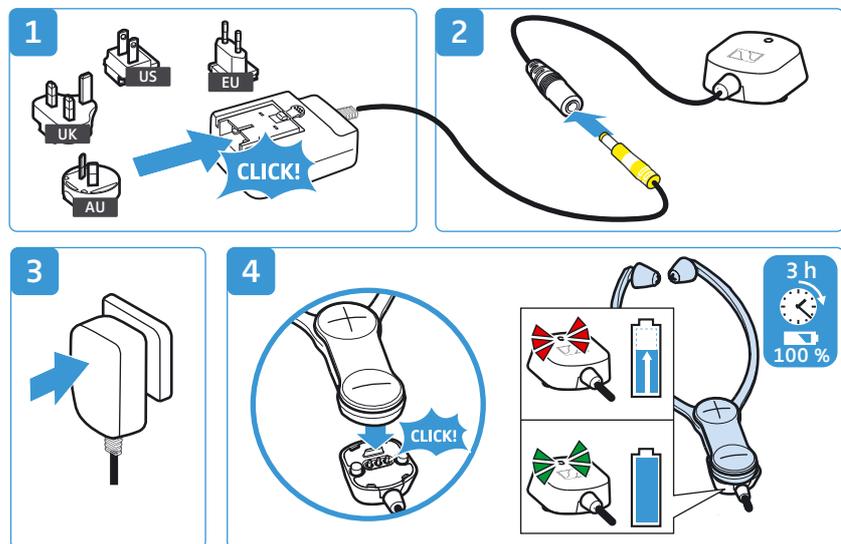
Interference due to magnetic fields!

The MCA 800 charging adapter generates stronger permanent magnetic fields that could cause interference with cardiac pacemakers and implanted defibrillators (ICDs).

- ▶ Always maintain a distance of at least 3.94" (10 cm) between the holding magnets of the charging adapter and the cardiac pacemaker or implanted defibrillator.

- 1 Select a suitable country adapter and slide it onto the power supply unit until it clicks audibly into place.
- 2 Connect the connector of the power supply unit to the connection socket of the MCA 800 charging adapter.
- 3 Plug the power supply unit into the wall socket.
- 4 Connect the charging adapter to the charging contacts on the stethoset receiver. The charging adapter is magnetically oriented to the correct position.

The rechargeable battery is being charged. The LED on the charging adapter lights up red. When the rechargeable battery is fully charged, the LED lights up green.



- i** You can also use the stethoset receiver during charging. Please note, however, that the receiver can get slightly warm during charging. The charge status of the rechargeable battery is displayed on the transmitter (see page 16).

If the LED on the charging adapter flashes red and green, a charging error/battery error has occurred. In this case, disconnect the charging adapter from the stethoset receiver. More information on the rechargeable battery can be found on page 28.

If a problem occurs ...

Problem	Possible cause	Possible solution	Page
The transmitter does not switch on	No connection to the power supply system.	Check the connections of the power supply unit.	15
The headphones cannot be switched on	The rechargeable battery is empty.	Recharge the rechargeable battery.	16
	The rechargeable battery is deep discharged.	Recharge the rechargeable battery for several hours. If the rechargeable battery is deep discharged, the charging process might take a while to start (up to 1 hour).	
No sound	No connection to the power supply system.	Check the connections of the power supply unit.	15
	The audio plug is not properly connected.	Check the audio plug connection.	11
	The audio source is switched off.	Switch the audio source on.	–
	The volume of the analog audio source is either set to the minimum or is on mute.	Increase the volume on the audio source to at least a medium level/ deactivate the muting function on the audio source.	–
	The audio cable is defective.	Replace the audio cable.	–
	The stethoset receiver is not correctly paired with the transmitter (e.g. additional stethoset receiver).	Pair the stethoset receiver with the transmitter again.	29
No audio signal when a digital audio source is connected	Cables are connected to both the digital and the analog audio input.	Remove the cable from the analog audio input.	11
	The connected digital audio source uses an incompatible audio format. The <i>Transmitter status</i> LED flashes white and blue.	Set the audio format of your audio source to "PCM", with a sampling rate of max. 96 kHz (see the instruction manual of the audio source).	–
Occasional sound dropouts, it might be that you hear 5 beeps via the receiver	The stethoset receiver is out of the transmitter's range.	Reduce the distance between the stethoset receiver and the transmitter.	–
	The signal is shielded.	Remove obstacles between the transmitter and the stethoset receiver.	–
	There are interfering devices (e.g. WiFi router, Bluetooth devices or microwaves) in the vicinity.	Change the position of the transmitter or of the receiver. Separate the transmitter from other wireless devices by at least 50 cm/ 20".	10
Sound too low	The volume on the stethoset receiver is adjusted too low.	Increase the volume on the stethoset receiver.	22
	The volume of the analog audio source is adjusted too low.	Increase the volume of the analog audio source to at least a medium level (approx. $1 V_{\text{rms}}$).	–

Problem	Possible cause	Possible solution	Page
Sound only on one ear	The balance is misadjusted.	Adjust the balance.	23
	The audio cable is not properly connected.	Check the audio plug connection.	11
	The TV has only a mono headphone socket.	Use an adapter (mono to stereo jack socket) to connect the transmitter to the TV.	–
Sound is less spatial	Mono operation is activated.	Activate stereo operation.	30
Sound is distorted	The audio cable is defective.	Replace the audio cable.	–
	The signal of the audio source is distorted.	Reduce the volume of the audio source.	–
	The volume on the stethoset receiver is adjusted too high.	Reduce the volume on the stethoset receiver.	22
You hear echoes when using the stethoset receiver with a TV	Some TVs can adjust a delay or latency of the audio signal for the digital audio output.	Check the audio output settings of your TV and set the latency to "0".	–
The battery status display goes off	The battery status display is set so that it goes off after 30 seconds.	Set the battery status display so that it is permanently displayed.	32
	More than one stethoset receiver is currently connected to the transmitter.	This function is only possible when only one stethoset receiver/receiver is connected to the transmitter.	–
2 beeps during operation	The rechargeable battery is almost empty.	Recharge the rechargeable battery.	16
The operating time decreases	The rechargeable battery is exhausted.	Have the rechargeable battery replaced by an authorized Sennheiser service partner.	28
A hearing profile, the balance or stereo/mono operation cannot be activated or changed	The settings protection function is activated.	Deactivate the settings protection function (for the hearing profile, the balance and stereo/mono operation).	33
	More than one stethoset receiver/receiver is currently connected to the transmitter.	This function is only possible when only one stethoset receiver/receiver is connected to the transmitter.	–
The stethoset receiver does not connect to the transmitter	The stethoset receiver is not paired with the transmitter.	Pair the stethoset receiver with the transmitter.	29
	The distance to the transmitter is too large.	Reduce the distance between the stethoset receiver and the transmitter.	–
	4 stethoset receivers are currently connected to the transmitter.	Up to 4 stethoset receivers can be simultaneously used with the transmitter.	–

If a problem occurs that is not listed in the above table or if the problem cannot be solved with the proposed solutions, visit the Set 860 product page at www.sennheiser.com for the most up-to-date list of frequently asked questions.

You may also contact your local Sennheiser partner for assistance. To find a Sennheiser partner in your country, search at www.sennheiser.com.

If a problem occurs ...



Leaving the range of the transmitter

The range of the transmitter largely depends on environmental conditions such as wall thickness, wall composition etc. If the headphones leave the range of the transmitter, the audio first cuts out occasionally until it finally cuts out completely. You hear alerts in the stethoset receiver.

If you re-enter the transmission range within 5 minutes, the connection is automatically re-established.

If you spend more than 5 minutes outside the transmission range, the stethoset receiver switches off automatically.

Specifications

Set 860 system

Carrier frequency	2.4 to 2.4835 GHz
Modulation	8-FSK Digital
Signal-to-noise ratio	analog input: typ. 83 dBA at 1 V _{rms} digital input: > 90 dBA
RF output power	max. 10 dBm
Audio latency	< 65 ms
Range	up to 70 m (line of sight)
Stethoset receivers that can be simultaneously connected to the transmitter	4
Temperature range	operation: 5 °C to +40 °C storage: -25 °C to +70 °C
Relative air humidity (non-condensing)	operation: 10 to 80 % storage: 10 to 90 %

RR 800 stethoset receiver

Type	intra-aural, closed
Transducer principle	dynamic, neodymium magnets
Ear pad material	silicone
Frequency response	15 Hz to 16 kHz
Sound pressure level	125 dB at 1 kHz, 3 % THD
THD	< 0.5 % at 1 kHz, 100 dB SPL
Operating time	up to 18 hours
Charging time of rechargeable battery	up to 3 hours
Power supply	built-in BAP 800 lithium polymer rechargeable battery, 3.7 V, 350 mAh
Weight (incl. rechargeable battery)	approx. 61 g
Dimensions (switched off, W x H x D)	approx. 102 x 265 x 23 mm

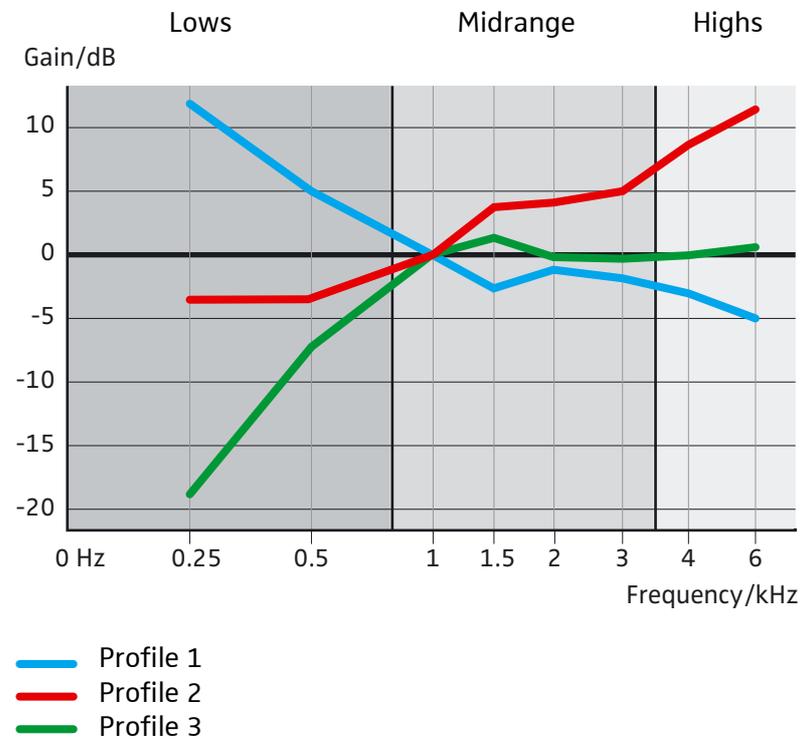
TR 860 transmitter

Connections	digital input: optical supported data streams: PCM, 32 - 96 kHz/16 - 24 bit
Power supply	analog input: 3.5 mm jack socket input voltage range: 0.15 to 4.0 V _{pk} 5 V _{DC} , 1 A
Power consumption	operation: typ. 1 W standby: ≤ 0.5 W (without charging)
Dimensions (W x H x D)	approx. 50 x 42 x 270 mm

NT 5-10AW power supply unit

Nominal input voltage/ nominal input current	100 – 240 V~/300 mA
Power frequency	50 – 60 Hz
Nominal output voltage	5 V _{DC}
Nominal output current	1 A
Temperature range	operation: 0 °C to +40 °C storage: -25 °C to +70 °C
Relative air humidity (non-condensing)	operation: 10 to 80 % storage: 10 to 90 %

Hearing profiles 1-3



Manufacturer Declarations

Warranty

Sennheiser electronic GmbH & Co. KG gives a warranty of 24 months on this product.

For the current warranty conditions, please visit our website at www.sennheiser.com or contact your Sennheiser partner.

FOR AUSTRALIA ONLY

Sennheiser goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

This warranty is in addition to other rights or remedies under law. Nothing in this warranty excludes, limits or modifies any liability of Sennheiser which is imposed by law, or limits or modifies any remedy available to the consumer which is granted by law.

To make a claim under this warranty, contact Sennheiser Australia Pty Ltd, Unit 3, 31 Gibbes Street Chatswood NSW 2067, Australia; Phone: (02) 9910 6700, email: service@sennheiser.com.au

All expenses of claiming the warranty will be borne by the person making the claim.

The Sennheiser International Warranty is provided by Sennheiser Australia Pty Ltd (ABN 68 165 388 312), Unit 3, 31 Gibbes Street Chatswood NSW 2067, Australia.

In compliance with the following requirements

EU declaration of conformity



- ErP Directive (2009/125/EC)
- RoHS Directive (2011/65/EU)

Hereby, Sennheiser electronic GmbH & Co. KG declares that the radio equipment type TR 860, RR 800 is in compliance with the Radio Equipment Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address: www.sennheiser.com/download.

Notes on disposal



- WEEE Directive (2012/19/EU)
- Battery Directive (2006/66/EC & 2013/56/EU)

The symbol of the crossed-out wheeled bin on the product, the battery/rechargeable battery and/or the packaging indicates that these products must not be disposed of with normal household waste, but must be disposed of separately at the end of their operational lifetime. For packaging disposal, please observe the legal regulations on waste segregation applicable in your country.

Further information on the recycling of these products can be obtained from your municipal administration, from the municipal collection points, or from your Sennheiser partner.

The separate collection of waste electrical and electronic equipment, batteries/rechargeable batteries and packagings is used to promote the reuse and recycling and to prevent negative effects caused by e.g. potentially hazardous substances contained in these products. Herewith you make an important contribution to the protection of the environment and public health.

Statements regarding FCC and Industry Canada

FCC Declaration of Conformity (DoC)	
We,	 SENNHEISER Model No: TR 860, RR 800
	Sennheiser Electronic Corporation One Enterprise Drive • Old Lyme • CT 06371 • USA Tel: +1 (860) 434 9190 Fax: +1 (860) 434 1759
declare the above device comply with the requirements of Federal Communications Commission.	
This device complies with Part 15 of the FCC rules. Operation is subjected 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.	
Responsible Party: Michael Lieske	

This device complies with Part 15 of the FCC rules and RSS-247 of Industry Canada. 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.

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 and RSS-247 of Industry Canada. 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 dealer or an experienced radio/TV technician for help.

Changes or modifications made to this equipment not expressly approved by Sennheiser electronic Corp. may void FCC authorization to operate this equipment.

CAN ICES-3 (B)/NMB-3(B)

RF Radiation Exposure Information

Since the radiated output power of this device is far below the FCC radio frequency exposure limits, it is not subjected to routine RF exposure evaluation as per Section 2.1093 of the FCC rules.

This device meets FCC RF exposure guidelines for an uncontrolled environment. The transmitter of this device should be installed and operated at least 20 cm away from the user's body. Use of other accessories not verified by the manufacturer may not ensure compliance with FCC RF exposure guidelines.

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

Information sur l'exposition aux rayonnements radio fréquence (RF)

La puissance RF rayonnée de cet appareil étant de loin inférieure aux limites imposées par la FCC, il n'est pas soumis à la réglementation sur l'exposition aux RF selon la section 2.1093 de la réglementation FCC.

Cet équipement est conforme aux limites d'exposition aux rayonnements imposées par la FCC pour un environnement non réglementé. L'émetteur de cet équipement doit être installé et utilisé à une distance minimale de 20 cm du corps de l'utilisateur. L'utilisation d'autres accessoires non homologués par le fabricant remet en cause la conformité des normes imposées par la FCC.

Cet émetteur ne doit pas être positionné à proximité d'une autre antenne ou d'un autre émetteur, ni utilisé avec une autre antenne ou un autre émetteur.

Trademarks

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Sennheiser electronic GmbH & Co. KG
Am Labor 1, 30900 Wedemark, Germany
www.sennheiser.com

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