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Safety instructions

• Please read this instruction manual carefully and completely before using the devices.
• Make this instruction manual easily accessible to all users at all times. Always include this instruction manual when passing the devices on to third parties.
• Do not use the devices in situations which require special attention (e.g. when performing skilled jobs).
• Always keep the devices dry and do not expose them to extreme temperatures.
• Use the devices with care and set them up in a clean, dust-free environment.
• 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.
• Connected headphones contain magnets that generate a magnetic field which could cause dangerous interference with cardiac pacemakers and implanted defibrillators. Keep connected headphones at least 1.2” (3 cm) from cardiac pacemakers or implanted defibrillators.
• This receiver allows you to set higher volumes than conventional headphones. This can cause hearing damage in persons with healthy hearing and especially in children.
• Refer all servicing to qualified service personnel. Servicing is required if the devices have been damaged in any way, liquid has been spilled, objects have fallen inside, the devices have been exposed to rain or moisture, do not operate properly or have been dropped.
• WARNING: To reduce the risk of fire or electric shock, do not expose the device and the mains unit to rain or moisture.
• Use only the supplied mains unit.
• Disconnect the mains connector from the wall socket
  – to completely disconnect the device from the mains,
  – during lightning storms or when unused for long periods of time.
• Ensure that the mains unit is
  – always readily operable and easily accessible,
  – properly plugged into the wall socket,
  – not covered or exposed to direct sunlight for longer periods of time in order to prevent heat accumulation,
  – only operated within the permissible temperature range (see “Specifications” on page 32),
  – not operated near heat sources.
Intended use

Intended use includes:
- having read this instruction manual, especially the chapter “Safety instructions”,
- using the devices within the operating conditions and limitations described in this instruction manual.

“Improper use” means using the devices other than as described in this instructions, or under operating conditions which differ from those described herein.

Safety instructions for the Lithium-Polymer rechargeable battery

The BA 300 is a Lithium-Polymer rechargeable battery. If abused or misused, this rechargeable battery may be damaged. Please understand that Sennheiser does not accept liability for damage arising from abuse or misuse.

WARNING!

In extreme cases, the rechargeable battery may even present a
- heat hazard
- fire hazard
- explosion hazard
- smoke and gas hazard

Do not heat above 70°C/158°F, e.g. do not expose to sunlight or throw into a fire.

Do not expose to moisture.

Do not short-circuit.

Do not mutilate or dismantle.

Store the devices/rechargeable batteries in a cool and dry place at room temperature.

Only charge rechargeable batteries with the appropriate Sennheiser chargers.

Only charge rechargeable batteries at ambient temperatures between 10°C/50°F and 40°C/104°F.

Do not charge the rechargeable battery if the device is obviously defective.

Return defective devices or exhausted rechargeable batteries to your specialist dealer.
Delivery includes

Delivery of the Set 830 S system includes:

1 RI 830 S receiver
   with BA 300 Lithium-Polymer rechargeable battery

1 TI 830 transmitter with integrated charging compartments

1 EZT 3011 induction loop

1 NT 13 mains unit with
   3 country adapters (EU, UK, US)

1 connection cable
   with two 3.5 mm stereo jack plugs
   for connection to a headphone socket

3 audio adapters:
   1 adapter 3.5 mm to ¼” (6.3 mm) jack plug
   1 adapter for RCA socket
   1 adapter for SCART socket

1 lanyard

1 clip for attaching the receiver

1 instruction manual
Product overview

The overview pictures of the receiver and the transmitter can be found on the inside front cover of this instruction manual.

**Receiver**

1. Channel indicator
2. Volume control
3. On/off button
4. Balance control
5. Channel search button
6. Battery compartment
7. Socket for headphones, induction loop or connection cable to hearing aid

**Transmitter**

8. Charging compartment for receiver
9. Charging compartment for optional spare rechargeable battery
10. Charging indicator for optional spare rechargeable battery
11. Charging indicator for receiver’s rechargeable battery
12. Operation indicator
13. “Speech intelligibility” button
14. Indicator for the selected speech intelligibility
15. Socket (marked blue) for connection of sound source or external microphone
16. Mono/stereo slide switch
17. Treble adjustment control
18. DC socket (marked yellow) for connection of mains unit
Putting the Set 830 S into operation

Setting up the transmitter

Place the transmitter so that:
– there are no obstacles in the light path between transmitter and receiver and
– transmitter and receiver are not exposed to direct sunlight. Direct sunlight may interfere with the reception and may damage the transmitter.

If you are using a plasma TV screen:
Plasma TV screens radiate an infra-red signal that can adversely affect the transmission quality.

Make sure that the transmitter is placed as far as possible from your plasma TV screen.

If necessary, use a standard extension cable (3.5 mm stereo jack plug) to reduce the distance between transmitter and receiver. This extension cable is available from your Sennheiser dealer.

Note:
One transmitter can be used to transmit to several receivers on the same frequency.
Putting the Set 830 S into operation

Connecting the transmitter to a sound source

- Switch your sound source (e.g. TV) off before connecting the transmitter.

- Plug one end of the connection cable into the blue socket of the transmitter.

- Check the available connection possibilities of your sound source (e.g. TV).

<table>
<thead>
<tr>
<th>Connection possibility</th>
<th>Name of connection possibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Headphone socket</td>
</tr>
<tr>
<td>B</td>
<td>RCA socket</td>
</tr>
<tr>
<td>C</td>
<td>SCART socket</td>
</tr>
<tr>
<td>D</td>
<td>MKE 800 TV-N external microphone</td>
</tr>
</tbody>
</table>

- Connect the transmitter as described in the corresponding chapter A, B, C or D.

Note:
- If there are several connections (A, B or C) available, select the SCART socket C.
- SCART adapter and microphone are also available as accessories (see page 30).
A. Connecting the transmitter to a headphone socket

- Plug the other end of the connection cable 19 into the head- phone socket on your sound source.

Is the plug on the connection cable too small for the headphone socket?

- Plug the adapter to ¼” (6.3 mm) jack socket 20 onto the connection cable.

Adjust the volume of the headphone socket on your sound source to a medium level. This improves the quality of cordless sound transmission. For detailed information, please refer to the instruction manual of your sound source (e.g. TV).

Note:

With most TVs, the headphone socket is located at the front or sides.

B. Connecting the transmitter to an RCA socket

- Plug the adapter for RCA socket 21 onto the connection cable 19.

- Connect the red connector of the adapter 21 to the red RCA socket R of your sound source.

- Connect the white connector of the adapter 21 to the white or black RCA socket L of your sound source.

Notes:

- With most TVs, the RCA socket is located at the rear.
- If your TV has several RCA sockets, use the socket RCA output.
Connecting the transmitter to a SCART socket

Plug the SCART adapter 22 onto the connection cable 19.

Connect the SCART adapter 22 to the SCART socket on your TV.

Note:
If your TV has several SCART sockets, use the socket SCART output.

Using the MKE 800 TV-N external microphone

What if your sound source doesn’t have any of the connections mentioned above?
You can then use the optional MKE 800 TV-N microphone (see page 30).

What if your sound source mutes the external loudspeakers if you use one of the connections mentioned above?

Via the operating menu of your TV, check if the muting can be deactivated.

If the muting persists, use the optional MKE 800 TV-N microphone (see page 30) instead of the connection cable.

To connect the MKE 800 TV-N microphone:

Directly connect the microphone to the blue socket 15 of the transmitter.

Position the microphone in front of the loudspeaker of your sound source.

Note:
You can change the sound by varying the position of the microphone in front of the loudspeaker.
Putting the Set 830 S into operation

Connecting the transmitter to the mains

1. Select the suitable country adapter for your wall socket.
2. Slide the supplied country adapter onto the mains unit until it locks firmly in place.
3. Connect the yellow connector of the mains unit to the yellow socket of the transmitter.
4. Plug the mains unit into a wall socket. The operation indicator on the transmitter lights up green.

Notes:
- When connecting the transmitter to the mains for the first time, charge the rechargeable battery for 3 hours as described in the chapter “Storing and charging the receiver” on page 19.
- If there is no audio signal from the sound source for about 3 minutes, the transmitter automatically switches off. The operation indicator goes off.
Connecting headphones or the induction loop for hearing aids to the receiver

The socket 7 of the receiver allows you to connect
• the supplied induction loop 27,
• headphones or
• a connection cable to your hearing aid.

Connecting the induction loop

► Carefully remove the clip 25 from the receiver.
► Attach the clip of the induction loop as shown.

► Connect the induction loop 27 to the socket 7 of the receiver.

► Set your hearing aid to position “T”.

If your hearing aid has no position “T”, please contact your hearing aid acoustician.

Note:

For alternative connection possibilities to your hearing aid as well as the connection to cochlea implants, please contact your hearing aid acoustician.
Putting the Set 830 S into operation

Connecting headphones

Connect the 3.5 mm jack plug of the headphones to the socket 7 of the receiver.

Wearing the receiver

In order to wear the receiver, you can use the supplied lanyard 26, the clip 25 or the supplied induction loop 27. The induction loop is suitable for users of hearing aids, the lanyard and the clip are useful if you are using headphones.

Wearing the receiver around the neck

If you want to wear the receiver around your neck, use

• the supplied lanyard 26 or
• the connected induction loop 27 (where applies).

To attach the lanyard 26:

Connect the fasteners of the lanyard 26 to the metal ring at the rear of the receiver.

Wear the receiver around your neck, with the Sennheiser logo facing away from your body.
Attaching the receiver to clothing or belt

If you want to attach the receiver to your clothing or belt, use the attachment clip 25.

To attach the receiver:

- Attach the clip 25 to your clothing or belt.

To remove the receiver:

- Pull the clip 25 with the receiver away from your clothing or belt.
Using the Set 830 S system

To switch the Set 830 S system on, proceed as follows:

<table>
<thead>
<tr>
<th>Sequence of steps</th>
<th>Page</th>
</tr>
</thead>
</table>
| 1. Switch your sound source (e.g. TV) on.  
The transmitter automatically switches on. | 14 |
| 2. Adjust the volume on the receiver to a low level. | 15, 16 |
| 3. Switch the receiver on. | 15 |
| 4. Adjust the desired volume on the receiver. | 16 |

Switching the transmitter on/off

To switch the transmitter on:

- Switch your sound source on.  
The transmitter automatically switches on. The operation indicator \(12\) \(\text{lights up green.}\)

If the transmitter doesn’t switch on:

- Read the chapter “If a problem occurs ...” on page 24.

To switch the transmitter off:

- Switch your sound source off.  
The transmitter automatically switches off after 3 minutes. The operation indicator \(12\) \(\text{goes off.}\)

To disconnect the transmitter from the mains:

- Pull out the mains connector from the wall socket.

Note:

When not using the transmitter for extended periods of time (e.g. when you are on holiday), pull out the mains connector from the wall socket. In this case, however, the receiver’s rechargeable battery will not be recharged.
Switching the receiver on/off

CAUTION! Hearing damage due to high volumes!
This receiver allows you to set higher volumes than conventional headphones. This can cause hearing damage in persons with healthy hearing and especially in children.

▶ Before using the receiver, set the volume on the receiver to a low level.
▶ Do not continuously expose yourself to high volumes.

To switch the receiver on:
▶ Press the on/off button 3 until the channel indicator 1 lights up. The channel indicator 1 goes off after 30 seconds.

To switch the receiver off:
▶ Press the on/off button 3 until the channel indicator 1 goes off.

Notes:
– For how to store and charge the receiver, see page 19.
– If you are not within the range of the transmitter, the receiver automatically switches off after 3 minutes.
Adjusting the volume

► Use the volume control \( \text{②} \) to adjust the volume to a sufficient and comfortable level.

Searching for a sound source

► Switch the receiver on.
Do you hear the desired sound source?

Yes: The receiver has already found the sound source.

No:

► Briefly press the channel search button \( \text{⑤} \).
The sound source is searched for.

On the receiver, the channel indicator \( \text{①} \) can light up as follows:

<table>
<thead>
<tr>
<th>Channel indicator</th>
<th>Frequency</th>
<th>You hear the sound in</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2.3 + 2.8 MHz</td>
<td>stereo</td>
</tr>
<tr>
<td></td>
<td>2.3 MHz</td>
<td>mono</td>
</tr>
<tr>
<td></td>
<td>2.8 MHz</td>
<td></td>
</tr>
</tbody>
</table>

► If you have not yet found your sound source, press the channel search button once more.

If you still cannot find your sound source:

► Read the chapter “If a problem occurs ...” on page 24.

Note:
The channel indicator \( \text{①} \) goes off after 30 seconds so that the light won’t disturb you in a dark room.
Adjusting the balance

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

Turn the balance control 4 to the left L or right R in order to increase the volume for the corresponding ear.

Switching between mono and stereo operation

If, despite a correct balance adjustment, you can hear the sound only with one ear:

Set the ST/MO switch 16 of the transmitter to MO (mono).

Meaning of the terms “mono” and “stereo”

<table>
<thead>
<tr>
<th>Stereo (ST)</th>
<th>Mono (MO)</th>
</tr>
</thead>
<tbody>
<tr>
<td>![L R] Speech from the left</td>
<td>![L + R] You hear speech and music coming from the front.</td>
</tr>
<tr>
<td>![L: Speech from the left</td>
<td>![R: Music from the right] You hear speech and music coming from the front.</td>
</tr>
</tbody>
</table>
Individually enhancing the speech intelligibility

The “speech intelligibility” button 13 allows you to adjust the sound to your individual needs. Try out which setting works best for you.

Press the “speech intelligibility” button 13 until the sound is optimally adjusted to your needs.

<table>
<thead>
<tr>
<th>Press the button</th>
<th>1 x</th>
<th>2 x</th>
<th>3 x</th>
<th>4 x</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indicator 14 is lit yellow</td>
<td><img src="image" alt="Indicator" /></td>
<td><img src="image" alt="Indicator" /></td>
<td><img src="image" alt="Indicator" /></td>
<td><img src="image" alt="Indicator" /></td>
</tr>
<tr>
<td>Setting</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>Default setting</td>
</tr>
</tbody>
</table>

If necessary, you can have the speech intelligibility fine adjusted to your hearing ability (see page 27).
Storing and charging the receiver

After use, place the receiver into the transmitter’s charging compartment 8 without exerting too much pressure. The receiver automatically switches off.

When the receiver is placed correctly into the charging compartment, the indicator 11 lights up:

- red: The battery is being charged.
- green: The battery is fully charged.

Notes:

- With a fully charged battery, the operating time is up to 12 hours.
- If you have several receivers, they can be used during charging.
- Always store the receiver in the transmitter’s charging compartment 8 to ensure that it is fully charged. The intelligent battery charging technology prevents over-charging.
Charging a rechargeable battery in the transmitter’s charging compartment

You can charge the receiver’s rechargeable battery or a spare BA 300 rechargeable battery (not included in the delivery of the Set 830 S) in the charging compartment 9 at the side of the transmitter.

The spare battery offers extended listening time while the discharged first battery is being recharged.

Note:
Before using the spare rechargeable battery for the first time, charge it for at least 3 hours.

Removing and charging the receiver’s battery

To remove the receiver’s battery:

- Pull the battery out of the receiver’s battery compartment 6.

- Insert the receiver’s battery into the charging compartment 9 at the side of the transmitter as shown.

When the battery is inserted correctly, the indicator 10 lights up:
- red: The battery is being charged.
- green: The battery is fully charged.

- Slide the battery into the receiver’s battery compartment 6 as far as it will go.
What if...

...this indicator lights up?

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Status</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Channel indicator</td>
<td>lit yellow</td>
<td>Receiver has just been switched on or a button has just been pressed.</td>
</tr>
<tr>
<td></td>
<td>off</td>
<td>Receiver is switched on for more than 30 secs. and no button has been pressed.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Receiver is switched off.</td>
</tr>
<tr>
<td>Operation indicator</td>
<td>lit green</td>
<td>Transmitter is switched on.</td>
</tr>
<tr>
<td></td>
<td>off</td>
<td>Transmitter is switched off.</td>
</tr>
<tr>
<td>Charging indicator</td>
<td>lit red</td>
<td>Rechargeable battery is being charged.</td>
</tr>
<tr>
<td></td>
<td>lit green</td>
<td>Rechargeable battery is fully charged.</td>
</tr>
<tr>
<td>“Speech intelligibility” indicator</td>
<td>lit yellow</td>
<td>Speech intelligibility enhancement is switched on.</td>
</tr>
<tr>
<td></td>
<td>off</td>
<td>Speech intelligibility enhancement is switched off.</td>
</tr>
</tbody>
</table>

...you press this button?

<table>
<thead>
<tr>
<th>Button</th>
<th>Function</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Channel search button</td>
<td>Searches for the sound source or a different channel.</td>
<td>16</td>
</tr>
<tr>
<td>“Speech intelligibility” button</td>
<td>Selects one of the possible settings in order to individually enhance the speech intelligibility.</td>
<td>18</td>
</tr>
</tbody>
</table>
### ...you change the position of this control/switch?

<table>
<thead>
<tr>
<th>Control/switch</th>
<th>Function</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volume control on the receiver</td>
<td>Reduces or increases the volume of the receiver.</td>
<td>16</td>
</tr>
<tr>
<td>Balance control on the receiver</td>
<td>Increases the volume for the left or the right ear.</td>
<td>17</td>
</tr>
<tr>
<td>Mono/stereo slide switch on the receiver</td>
<td>Sets the transmitter to mono or stereo operation.</td>
<td>17</td>
</tr>
<tr>
<td>Treble adjustment control on the transmitter</td>
<td>Treble adjustment is only to be made by a hearing aid technician / an expert.</td>
<td>28</td>
</tr>
</tbody>
</table>

### ...you hear acoustic signals or warning signals?

<table>
<thead>
<tr>
<th>Acoustic signal</th>
<th>Meaning</th>
</tr>
</thead>
</table>
| 🎶🎵🎶            | 3 ascending beeps
The receiver has just been switched on.                                                                                                                                 |
| 🎶🎵🎶            | 2 descending beeps
The receiver has just been switched off.                                                                                                                                 |
| 🎶              | 1 acknowledgement beep
The channel search button has been pressed once briefly.                                                                                              |
|                 | The channel search button has been pressed for 5 seconds.                                                                                     |
| 🎶🎵             | 1–2 short beeps
The receiver is set to channel 1 or 2.                                                                                                                |
Warning signal | Meaning
---|---
6 short beeps | The receiver does not receive any signal from the transmitter:
  - The distance between transmitter and receiver is too great. The receiver switches off after 3 minutes.
  - The transmitter is switched off.
2 long beeps | The rechargeable battery is almost flat.

To switch the acoustic signals on and off:

▶ Press the channel search button 5 of the receiver for approx. 5 seconds.
  You hear a short acoustic signal.

Note:

Warning signals cannot be switched off.
Cleaning the Set 830 S

Cleaning the transmitter and the receiver

CAUTION! Liquids can damage the electronics of the devices!
Liquids entering the housing of the devices can cause a short-circuit and damage the electronics.
► Keep all liquids far away from the devices.
► Do not use any cleansing agents or solvents.

► Before cleaning, disconnect the transmitter from the mains.
► Use only a slightly damp cloth to clean the devices.

If a problem occurs ...

The transmitter does not switch on

<table>
<thead>
<tr>
<th>Possible cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Is the mains unit connected correctly?</td>
<td>Check the connection of the mains unit to the transmitter and to the mains (see page 10).</td>
</tr>
<tr>
<td>Is the sound source switched on?</td>
<td>Switch your sound source on.</td>
</tr>
<tr>
<td>Is the volume of the sound source sufficient?</td>
<td>Set the volume on your sound source to a medium level.</td>
</tr>
<tr>
<td>Is the transmitter set to operating mode 2 (see page 29)?</td>
<td>Take the receiver out of the charging compartment. The transmitter automatically switches on.</td>
</tr>
</tbody>
</table>
## You cannot hear anything

<table>
<thead>
<tr>
<th>Possible cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Is there a free line of sight between receiver and transmitter?</td>
<td>Remove obstacles in the light path between receiver and transmitter.</td>
</tr>
<tr>
<td>Are transmitter and receiver exposed to direct sunlight?</td>
<td>Avoid exposure to direct sunlight.</td>
</tr>
<tr>
<td>Is the receiver still within the transmitter’s range?</td>
<td>Move the receiver closer to the transmitter. If necessary, switch the receiver on again.</td>
</tr>
<tr>
<td>Are all connectors connected correctly?</td>
<td>Check the connection between the transmitter and your sound source (see page 7).</td>
</tr>
<tr>
<td>Is the operation indicator (^{12}) lit?</td>
<td>Check if the transmitter is switched on (see page 14).</td>
</tr>
<tr>
<td>Is the transmitter set up the wrong way round?</td>
<td>Set up the transmitter so that the cables are guided away from the receiver (see page 6).</td>
</tr>
<tr>
<td>Does the receiver’s Sennheiser logo face the transmitter?</td>
<td>Wear the receiver the right way round, with the Sennheiser logo facing the transmitter.</td>
</tr>
<tr>
<td>Is the volume of the sound source sufficient?</td>
<td>Set the volume on your sound source to a medium level.</td>
</tr>
<tr>
<td>Is the volume of the receiver sufficient?</td>
<td>Increase the volume by turning the volume control (^{2}) of the receiver (see page 16).</td>
</tr>
<tr>
<td>Is the rechargeable battery inserted properly into the receiver and fully charged?</td>
<td>Check if the channel indicator (^{1}) is lit. If it is not lit: recharge the rechargeable battery (see page 19).</td>
</tr>
<tr>
<td></td>
<td>Remove the rechargeable battery and reinsert it into the receiver. If this doesn’t help: recharge the rechargeable battery (see page 19).</td>
</tr>
</tbody>
</table>
## If a problem occurs ...

### You hear the sound only with one ear

<table>
<thead>
<tr>
<th>Possible cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Is the balance adjusted correctly?</td>
<td>Turn the balance control (4) to the left or right (see page 17).</td>
</tr>
<tr>
<td>Is the transmitter set to mono?</td>
<td>Set the mono/stereo switch (6) on the transmitter to the left (see page 17).</td>
</tr>
</tbody>
</table>

### The sound of your sound source is hardly intelligible

<table>
<thead>
<tr>
<th>Possible cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Is the speech intelligibility enhancement out of adjustment?</td>
<td>Press the “speech intelligibility” button (3) on the transmitter until the sound is optimally adjusted to your needs (see page 18).</td>
</tr>
<tr>
<td>Do you use a plasma TV screen?</td>
<td>Make sure that the transmitter is placed as far as possible from your plasma TV screen (see page 6).</td>
</tr>
<tr>
<td>Is the receiver still within the transmitter’s range?</td>
<td>Move the receiver closer to the transmitter. If necessary, switch the receiver on again.</td>
</tr>
</tbody>
</table>
The loudspeakers of your TV are muted

<table>
<thead>
<tr>
<th>Possible cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Some TVs have a function that mutes the loudspeakers when you connect a transmitter.</td>
<td>Via the operating menu of your TV, check if and how the muting can be deactivated.</td>
</tr>
<tr>
<td></td>
<td>Use a different audio socket on your TV or use the MKE 800 TV-N external microphone (see “Accessories and spare parts” on page 30).</td>
</tr>
</tbody>
</table>

If a problem occurs that is not listed in the above tables or if the problem cannot be solved with the proposed solutions, please contact your Sennheiser partner for assistance.

Additional technical information

Fine adjusting the speech intelligibility

The speech intelligibility can be enhanced individually on the transmitter (see page 18).

There are the following settings:

<table>
<thead>
<tr>
<th>Setting</th>
<th>Indicator lit yellow</th>
<th>Fine adjustment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>3 2 1</td>
<td>Compression</td>
</tr>
<tr>
<td>2</td>
<td>3 2 1</td>
<td>Treble boost</td>
</tr>
<tr>
<td>3</td>
<td>3 2 1</td>
<td>Compression and treble boost</td>
</tr>
<tr>
<td>Default setting</td>
<td>3 2 1</td>
<td>No fine adjustment made</td>
</tr>
</tbody>
</table>
Compression (settings 1 and 3)
Deterioration of the ability to hear quiet sounds as well as loud ones is a typical symptom of old age. Compression compensates for these volume differences by boosting the volume of quiet sounds and reducing the volume of loud sounds if necessary.
Compression seems to put the speech in the foreground, making it easier to understand.
Compression is self-regulating; once it has been activated, it is not necessary to make any other settings.

Treble boost (settings 2 and 3)
Another typical age-related phenomenon is the deterioration of the hearing with regard to high frequencies. However, high frequencies are important for the intelligibility of speech.
The treble boost makes the speech clearer and easier to understand.
With the treble boost (settings 2 and 3), additional fine adjustment is possible using the treble boost control \( \text{G} \) at the rear of the transmitter.

Use a screwdriver to turn the treble boost control \( \text{G} \) to the left or right until the sound can be heard very well.
The position “0” corresponds to a minimum boost, the position “MAX” corresponds to a maximum boost, and the control is factory-preset to the medium position.

Function of the treble boost control
By means of the transmitter’s steplessly adjustable treble boost control \( \text{G} \), the audio signal is boosted as shown in the diagram. The treble boost control \( \text{G} \) allows you to select one of the curves shown in the diagram below.
Changing the operating mode

The transmitter can be set to a different operating mode. This is useful when the sound of your sound source is very low and the transmitter therefore does not always switch on automatically.

Press the “speech intelligibility” button \( \text{13} \) for approx. 5 seconds.

The indicator \( \text{14} \) goes off. The charging indicator for the spare rechargeable battery \( \text{10} \) flashes several times:

- red: operating mode 2
- green: operating mode 1 (factory-preset)

If the operating mode was changed successfully, the charging indicator for the spare rechargeable battery \( \text{10} \) goes off and the indicator \( \text{14} \) lights up again.

Particularities of operating mode 2:

In operating mode 2, the transmitter is *not* switched on by the sound signal from the sound source.

To **switch** the transmitter **on**:

- Take the receiver out of the charging compartment.

To **switch** the transmitter **off**:

- Place the receiver into the charging compartment.

If – in operating mode 2 – you want to use a second receiver and charge its rechargeable battery during operation:

Pull the battery out of the receiver’s battery compartment \( \text{6} \).

Slide the battery into the transmitter’s charging compartment \( \text{9} \) as far as it will go.
Accessories and spare parts

CAUTION! Danger of damage to the device!
Components from other manufacturers (e.g. for power supply or rechargeable battery) may cause damage to the device and will invalidate the warranty!

Use only original Sennheiser accessories and spare parts.

For the Set 830 S, the following receivers and stethoset receivers are available from your specialist dealer:

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Accessory/spare part</th>
</tr>
</thead>
<tbody>
<tr>
<td>502021</td>
<td>RI 830 S receiver</td>
</tr>
<tr>
<td>502020</td>
<td>RI 830 stethoset receiver</td>
</tr>
<tr>
<td>502023</td>
<td>RI 900 stethoset receiver</td>
</tr>
</tbody>
</table>
The following Set 830 S accessories are available from your specialist dealer:

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Accessory/spare part</th>
</tr>
</thead>
<tbody>
<tr>
<td>500898</td>
<td>BA 300 spare rechargeable battery</td>
</tr>
<tr>
<td>502566</td>
<td>EZT 3011 induction loop</td>
</tr>
<tr>
<td>504061</td>
<td>EZT 3012 induction loop</td>
</tr>
<tr>
<td>003448</td>
<td>EZI 120 induction couplers</td>
</tr>
<tr>
<td>528185</td>
<td>Lanyard</td>
</tr>
<tr>
<td>528184</td>
<td>Clip for attaching the receiver</td>
</tr>
<tr>
<td>517627</td>
<td>Extension cable, 3 m (3.5 stereo jack plug)</td>
</tr>
<tr>
<td>500974</td>
<td>MKE 800 TV-N external microphone (mono)</td>
</tr>
<tr>
<td>502710</td>
<td>L 300 10-10 charger</td>
</tr>
</tbody>
</table>

**HZL connection cables**

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>HZL connection cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>001676</td>
<td>HZL 30-6 (3.5 mm jack plug to 1 mini-plug, 40 cm)</td>
</tr>
<tr>
<td>004658</td>
<td>HZL 30-600 (3.5 mm jack plug to 1 mini-plug, 60 cm)</td>
</tr>
<tr>
<td>001678</td>
<td>HZL 32-6 (3.5 mm jack plug to 2 mini-plugs, 40 cm)</td>
</tr>
<tr>
<td>004657</td>
<td>HZL 32-600 (3.5 mm jack plug to 2 mini-plugs, 60 cm)</td>
</tr>
<tr>
<td>002408</td>
<td>HZL 34-6E (3.5 mm jack plug to 1 Euro plug, 40 cm)</td>
</tr>
<tr>
<td>004652</td>
<td>HZL 34-600E (3.5 mm jack plug to 1 Euro plug, 60 cm)</td>
</tr>
<tr>
<td>002409</td>
<td>HZL 36-6E (3.5 mm jack plug to 2 Euro plugs, 40 cm)</td>
</tr>
<tr>
<td>004653</td>
<td>HZL 36-600E (3.5 mm jack plug to 2 Euro plugs, 60 cm)</td>
</tr>
</tbody>
</table>
# Specifications

## System

<table>
<thead>
<tr>
<th>Specification</th>
<th>Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modulation</td>
<td>FM, stereo</td>
</tr>
<tr>
<td>Carrier frequencies</td>
<td>2.3 MHz/2.8 MHz</td>
</tr>
<tr>
<td>Frequency response</td>
<td>50 Hz–16,000 Hz</td>
</tr>
<tr>
<td>THD</td>
<td>&lt; 1 %</td>
</tr>
<tr>
<td>Charging time for rechargeable battery</td>
<td>approx. 3 hrs</td>
</tr>
<tr>
<td>Signal-to-noise ratio (1 mV, peak deviation)</td>
<td>typ. 75 dBA</td>
</tr>
<tr>
<td>Temperature range</td>
<td>Operation: 10°C to 40°C</td>
</tr>
</tbody>
</table>

## Transmitter

<table>
<thead>
<tr>
<th>Specification</th>
<th>Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range</td>
<td>up to 12 m within a room</td>
</tr>
<tr>
<td>Audio/microphone connection</td>
<td>3.5 mm stereo jack socket</td>
</tr>
<tr>
<td>Power supply via NT 13 mains unit</td>
<td>13.5 V DC/450 mA</td>
</tr>
<tr>
<td>Max. power consumption</td>
<td>4.7 W (incl. battery charging)</td>
</tr>
<tr>
<td>Standby consumption</td>
<td>&lt; 0.5 W (w/o battery charging)</td>
</tr>
<tr>
<td>Weight</td>
<td>approx. 260 g</td>
</tr>
<tr>
<td>Dimensions</td>
<td>approx. 112 x 146 x 58 mm</td>
</tr>
</tbody>
</table>

## Receiver

<table>
<thead>
<tr>
<th>Specification</th>
<th>Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Audio connection</td>
<td>3.5 mm stereo jack socket</td>
</tr>
<tr>
<td>Max. SPL</td>
<td>125 dB (SPL)</td>
</tr>
<tr>
<td>Power supply</td>
<td>via BA 300 rechargeable Li-Pol battery (3.7 V / 150 mAh)</td>
</tr>
<tr>
<td>Operating time</td>
<td>up to 12 hours</td>
</tr>
<tr>
<td>Weight</td>
<td>approx. 50 g (Incl. BA 300)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>approx. 70 x 60 x 25 mm</td>
</tr>
</tbody>
</table>
**Specifications**

**NT 13 mains unit**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal input voltage</td>
<td>100 V~ to 240 V~</td>
</tr>
<tr>
<td>Mains frequency</td>
<td>50–60 Hz</td>
</tr>
<tr>
<td>Nominal output voltage</td>
<td>13.5 V</td>
</tr>
<tr>
<td>Nominal output current</td>
<td>450 mA</td>
</tr>
<tr>
<td>Energy efficiency</td>
<td>DOE Level VI</td>
</tr>
<tr>
<td>Temperature range</td>
<td>Operation: 5°C to 40°C</td>
</tr>
<tr>
<td>Relative humidity</td>
<td>Operation: 10 to 90%, non condensing</td>
</tr>
</tbody>
</table>

**NT 13 plug-in power supply unit in accordance with**

Europe: EMC: EN 55013, EN 55020
Safety: EN 60950-1

USA: EMC: 47CFR15_B
Safety: UL 60950-1

Canada: EMC: ICES-003
Safety: CAN/CSA-C22.2 NO. 60950-1

Australia: EMC: AS/NZS 4268
Safety: AS/NZS 60950-1

The NT 13 plug-in power supply unit is certified in accordance with the safety requirements of legislation in Europe, the US, Canada and Australia.
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’s 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

- WEEE Directive (2012/19/EU)
  Please dispose of the devices at the end of their operational lifetime by taking them to your local collection point or recycling center for such equipment.

  The supplied batteries or rechargeable batteries can be recycled. Please dispose of them as special waste or return them to your specialist dealer. In order to protect the environment, only dispose of exhausted batteries.

CE Declaration of Conformity

- EMC Directive (2014/30/EU)
- Low Voltage Directive (2014/35/EU)
- RoHS Directive (2011/65/EU)
- ErP Directive (2009/125/EC)

The declaration is available at www.sennheiser.com/download. Before putting the devices into operation, please observe the respective country-specific regulations.

In compliance with

<table>
<thead>
<tr>
<th>Region</th>
<th>Declaration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Europe</td>
<td>![CE]</td>
</tr>
<tr>
<td>Australia/New Zealand</td>
<td>![Australian]</td>
</tr>
<tr>
<td>Canada</td>
<td>CAN ICES-3 (B)/NMB-3(B)</td>
</tr>
<tr>
<td>USA</td>
<td>![FCC]</td>
</tr>
</tbody>
</table>
Manufacturer Declarations

Statements regarding FCC and Industry Canada

FCC Declaration of Conformity (DoC)

We,
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 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.

Responsible Party: Markus Warlitz

This equipment complies with Part 15 of the FCC Rules and with RSS-210 of Industry Canada. Operation is subject to the following two conditions: (1) this equipment may not cause harmful interference, and (2) this equipment 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. 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.
This class B digital equipment complies with the Canadian ICES-003.

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

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