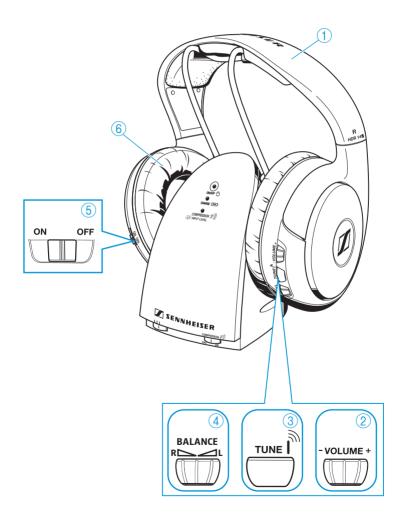
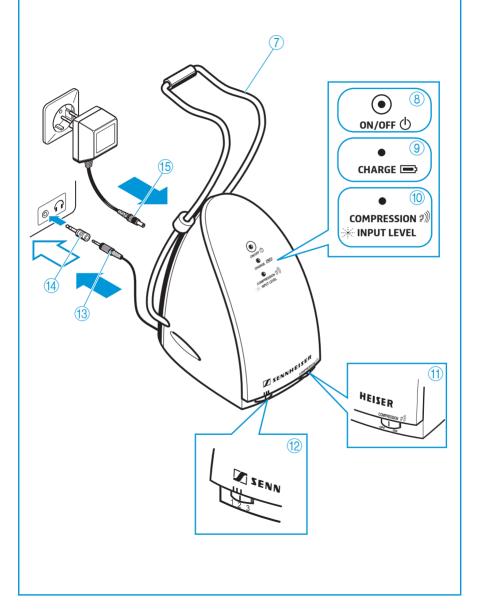


Wireless Listening Pleasure RS 145 comfort







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Important safety instructions

- Read this instruction manual.
- Keep this instruction manual in a safe place. Always include this instruction manual when passing the system on to third parties.
- Clean the devices and the mains unit only with a dry cloth.
- WARNING: To reduce the risk of fire or electric shock, do not expose the
 devices and the mains unit to rain or moisture.
- 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.
- Only use the supplied mains unit.
- Ensure that the mains unit is
 - always readily operable and easily accessible,
 - properly plugged into the wall socket,
 - only operated within the permissible temperature range (see "Specifications" on page 21),
 - not covered or exposed to direct sunlight for longer periods of time in order to prevent heat accumulation.

Intended use of the devices

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 NiMH rechargeable batteries

If abused or misused, rechargeable batteries may leak. In extreme cases, they may even present:



- a heat hazard.
- · a fire hazard,
- a leakage hazard,
- an explosion hazard.
- a smoke or gas hazard.

Please understand that Sennheiser does not accept liability for damage arising from abuse or misuse.



Keep away from children.



Only use original Sennheiser rechargeable batteries.



Observe correct polarity.



Do not short-circuit.



Do not expose to moisture.



Switch rechargeable batterypowered devices off after use.



Do not pack charged batteries loose – danger of shorting out / fire hazard.



When not using rechargeable batteries for extended periods of time, charge them regularly (about every three months).



Do not continue to use defective rechargeable hatteries



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



Do not mutilate or dismantle.



Only charge rechargeable batteries at ambient temperatures between 10 °C and 40 °C.



Immediately remove rechargeable batteries from obviously defective devices.



Dispose of rechargeable batteries at special collection points or return them to your specialist dealer.



Only charge rechargeable batteries with the appropriate Sennheiser chargers.

The RS 145 comfort RF headphone system

The RS 145 comfort RF stereo hi-fi headphone system offers excellent sound quality and allows for wireless listening everywhere in the house and garden. The lightweight headphones are extremely comfortable to wear and very easy to use.

The volume can easily be adjusted to individual needs. The speech intelligibility can be enhanced on the transmitter. Enjoy a completely unrestricted listening experience without disturbing others.

Delivery includes

- 1 HDR 145 headphones
- 1 TR 145 transmitter with connection cable
- 2 AAA size NiMH rechargeable batteries, 1.2 V
- 1 T-RS 100 mains unit
- 1 adapter 3.5 mm to ¼" (6.3 mm) jack socket
- 1 instruction manual

Product overview

An overview of the headphones and the transmitter is given on the inside front cover of this instruction manual.

Overview of the headphones

- **1** Headband
- 2 Volume control
- (3) TUNE button
- 4 Balance control for R/L volume adjustment
- 5 ON/OFF switch
- **6** Earpad

Overview of the transmitter

- 7 Charging cradle
- ⊗ Operation indicator

 d,

 green
- ⑤ Charging indicator ➡, red
- Indicator for speech intelligibility and sound signal, yellow
- (1) COMPRESSION switch (2)) for speech intelligibility enhancement

- (12) Channel selector switch
- (13) Connection cable
- 4 Adapter for connection cable
- (15) Connector of mains unit

Overview of the indicators and acoustic signals

Indicators on the transmitter

Indicator	Status	Meaning
Operation indicator (8) (ON/OFF)	lit	Sound source and transmitter are switched on.
Charging indicator (9) (CHARGE)	lit	Rechargeable batteries are being charged.
	flashes	Rechargeable batteries are fully charged.
Indicator for speech intelligibility (COMPRESSION) and sound signal (INPUT LEVEL) (10)	lit	Speech intelligibility enhancement is switched on.
	flashes slowly	Volume of sound source is adjusted too low.
	flashes rapidly	Volume of sound source is adjusted too high.

Acoustic signals and their meaning

Acoustic signal		Meaning
77777	6 short beeps	No signal! Transmitter is switched off or out of range.
<u> </u>	2 long beeps	Rechargeable batteries are almost flat.
	Sequence of 3 beeps	Headphones have been switched off.

Putting the RS 145 comfort system into operation

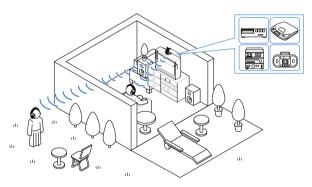
Setting up the transmitter

- Choose a suitable place near your sound source (e.g. TV, stereo or home cinema system).
- 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, which is up to 150 m.

It is not necessary that the transmitter and headphones are in the same room, so you can move around freely in the home or outside in the garden.



One transmitter can be used to transmit to several headphones on the same frequency.



Wall mounting the transmitter

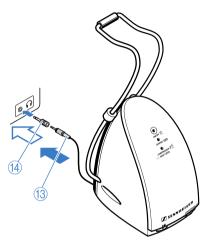
The transmitter is prepared for wall mounting. The required mounting hardware (screws and plugs) is not included in the delivery.



Connecting the transmitter to a sound source

You can connect the TR 145 transmitter to different sound sources, such as a TV, a DVD player or a stereo system.

Switch your sound source off.



- Connect the connection cable (3) to the headphone socket of your sound source.
 - If the plug on the connection cable (3) is too small for your headphone socket, plug the adapter to 1/4" (6.3 mm) jack socket (4) 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. If necessary, check the menu setting of your TV.
- With most TVs, the headphone socket is located at the front or sides.

Connecting the transmitter to the mains

- Connect the yellow connector of the mains unit (5) to the yellow socket on the transmitter.
- Plug the mains connector into a wall socket. The transmitter automatically switches on and the operation indicator ® lights up.

If there is no signal from the sound source for more than three minutes, the transmitter automatically switches off and the operation indicator (8) goes off.

Disconnecting the transmitter from the mains

▶ Pull the mains connector out of the wall socket.

Inserting and changing the headphones' rechargeable batteries

Before using the RS 145 comfort for the first time, you have to insert the supplied rechargeable batteries.

- ▶ Lift the left earpad ⑥ off as described under "Replacing the earpads" on page 18.
- Insert the rechargeable batteries. Observe correct polarity when inserting the batteries.
- Put the earpad 6 back in place.

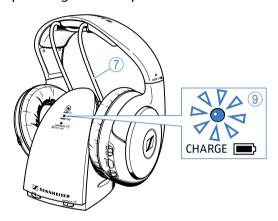


If the operating time decreases drastically even when the rechargeable batteries are fully charged, the rechargeable batteries are exhausted and have to be replaced.

Charging the headphones' rechargeable batteries



Charge the rechargeable batteries for at least 16 hours prior to first time use. Subsequent charging time is about the same time as the previous operating time. The operating time is up to 23 hours.



- Place the headphones on the charging cradle 7. Make sure that the charging indictor 9 lights up red. The headphones automatically switch off and the rechargeable batteries are being charged.
- Always store the headphones on the charging cradle 7 to ensure that they are fully charged when they are needed. When the rechargeable batteries are fully charged, the transmitter automatically switches to trickle charging and the charging indicator 9 flashes slowly.

Nearly discharged batteries will significantly reduce the sound quality. Approx. 10 minutes before the batteries are completely discharged, an acoustic signal is produced.

Adjusting the headband of the headphones

For good sound quality and best possible comfort, the headband has to be adjusted to properly fit your head:

- Wear the headphones so that the headband 1 runs over the top of your head.
- Adjust the length of the headband so that
 - your ears are completely inside the earpads,
 - you feel even, gentle pressure around your ears,
 - a snug fit of the headband (1) on the head is ensured.



Using the RS 145 comfort system

To switch the devices on and to listen to your sound source, proceed as follows:

Sequence of steps	Page
 Make sure that the rechargeable batteries are charged. 	10
2. Switch your sound source (e.g. TV) on.	12
3. Set the volume to a low level.	13
4. Switch your headphones on.	13
5. Set the desired volume.	16
6. If necessary, set a different channel for your sound source.	14

Switching the transmitter on and off

Switching the transmitter on

Switch your sound source on. The transmitter automatically switches on and the operation indicator (8) lights up.

If the transmitter does not switch on:

Increase the volume of your sound source and, if necessary, read the section "The transmitter does not switch on" on page 19.

Switching the transmitter off

Switch your sound source off.

If there is no signal from the sound source for more than three minutes, the transmitter automatically switches off and the operation indicator (8) goes off. The transmitter is now in standby mode, its power consumption is very low so that it can remain connected to the mains.



When not using the transmitter for extended periods of time, pull out the mains connector from the wall socket. In this case, however, the headphones' rechargeable batteries will not be recharged.

Switching the headphones on and off

CAUTION! Hearing damage due to high volumes!



Listening at high volume levels for long periods can lead to permanent hearing defects.

- ▶ Before putting the headphones on, set the volume to a low level (see page 16).
- Do not continuously expose yourself to high volumes.

Switching the headphones on

Set the ON/OFF switch 5 on the headphones to the position ON.



The headphones switch on and automatically start the channel search on the last selected channel. If a channel is found, the channel search stops. You hear the signal of the found sound source.

If you do not hear the sound source after a short while, please refer to the chapter "If a problem occurs ..." on page 19.

Switching the headphones off

Set the ON/OFF switch 5 on the headphones to the position OFF. The headphones switch off.



Always store the headphones on the charging cradle 7 to ensure that they are fully charged when they are needed.

Searching for a sound source

▶ Make sure that the operation indicator (8) on the transmitter is lit.

If you do not hear the desired sound source, continue the search:

Press the TUNE button ③ on the headphones until you have found your sound source.

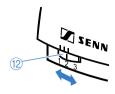


If you cannot find your sound source, please read the following section.

Changing the transmission channel

If several transmitters are operated simultaneously and are very close to one another, the sound quality can deteriorate and you hear e.g. hissing noise. To improve the sound quality, change the transmission channel:

➤ Set the channel selector switch ② on the transmitter to channel 1, 2 or 3.



To set the headphones to the selected channel:

Press the TUNE button ③ on the headphones.

Adjusting the signal of the sound source

The transmitter automatically ensures that the headphones always receive an optimum signal. However, the signal of the sound source can be so weak or so strong that it can no longer be automatically adjusted.

Signal of the sound source is too weak

If the signal of the sound source is too weak, the indicator for speech intelligibility and sound signal (1) flashes slowly.

Gradually increase the volume of your sound source until the flashing stops.



If the signal of the sound source is too weak, an optimum transmission is not possible. It could be that the transmitter switches off after some time. Please refer to the chapter "If a problem occurs ..." on page 19.

Signal of the sound source is too strong

If the signal of the sound source is too strong, the indicator for speech intelligibility and sound signal (ii) flashes rapidly.

Gradually reduce the volume of your sound source until the flashing stops.

Adjusting the volume

Use the volume control ② to adjust the volume to a sufficient and comfortable level.

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. There is a click-stop in the center position.

Enhancing the speech intelligibility

The RS 145 comfort features a dynamic compression system which allows you to enhance the speech intelligibility. This system evens out volume differences, i.e. it reproduces soft passages louder and decreases loud sounds.

Set the COMPRESSION switch (1) on the transmitter to the position ON.
The indicator for speech intelligibility (1) lights up.



Switching the acoustic signals (beeps) on and off

An overview of the acoustic signals is given on page 6. The acoustic signals can be switched on and off as follows:

- Switch the headphones on (see page 13).
- Press the TUNE button ③ for 5 seconds.
- Switch the headphones off for testing (see page 13). If the acoustic signals are switched on, the headphones produce a sequence of three beeps at switch-off. If no beeps are produced, the acoustic signals are now switched off.
- i

The setting for the acoustic signals is retained in memory until you change the setting again or replace the rechargeable batteries.

Cleaning the RS 145 comfort system

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, switch the devices off and disconnect the transmitter from the mains.
- Only use a slightly damp cloth to clean the devices.

Replacing the earpads

For reasons of hygiene, you should replace the earpads from time to time. Spare earpads are available from your Sennheiser dealer (see "Accessories and spare parts" on page 21).

- ➤ To loosens the quarter turn fastener which secures the earpads to the earcups, turn the earpads ⑤ in the direction of the arrow until you overcome a slight resistance.
- Lift the earpads 6 off the earcups.





If a problem occurs ...

The transmitter does not switch on

Possible cause	Solution	Page
Is the mains unit connected correctly?	Check the connection of the mains unit to the transmitter and to the mains.	9
Is the volume of the sound source sufficient?	Set the volume on your sound source to a medium value.	12

You cannot hear anything

Possible cause	Solution	Page
Is the transmitter placed close to metal objects?	Choose a different place for the transmitter. Make sure that the transmitter is not placed close to metal objects.	7
Are the headphones still within the transmitter's range?	Move the headphones closer to the transmitter. If necessary, switch the headphones on again.	7
Are all connectors connected correctly?	Check the connection between the transmitter and your sound source.	8
Is the operation indicator (8) lit?	Check if the transmitter is switched on.	12
Are the rechargeable batteries charged?	Place the headphones on the charging cradle. Check the charging indicator.	10
Are the rechargeable batteries properly inserted?	Remove the rechargeable batteries and reinsert them into the headphones.	9

You can hear the sound only with one ear

Possible cause	Solution	Page
Is the balance	Turn the balance control 4 to the left	16
adjusted correctly?	or right.	

The sound of your sound source is hardly intelligible

Possible cause	Solution	Page
Is the speech intelligibility enhancement deactivated?	Slide the COMPRESSION switch (1) to the right.	16
You do not hear your desired channel?	Press the TUNE button ③ on the headphones to start the search for your desired channel.	14
Is there another transmitter operating in the proximity?	Set the transmitter to a different channel and press the TUNE button ③ on the headphones.	14

The loudspeakers of your TV are muted

Possible cause	Solution
the loudspeakers	Via the operating menu of your TV, check if and how the muting function can be deactivated.
when you connect a transmitter.	Alternatively, use a different audio socket on your TV.

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.

Accessories and spare parts

Only use original Sennheiser accessories and spare parts, otherwise the device quality can be impaired or the devices can be damaged.

Cat. No. Accessory/spare part

502821 1 HDR 145 additional headphones

511792 1 pair of earpads

Specifications

RS 145 comfort system

Modulation	FM, stereo
Frequency range	863 – 865 MHz
Frequency response	18 – 21,000 Hz
Signal-to-noise ratio	typ. 68 dB (A)
Ambient temperature	0 °C to +40 °C

TR 145 transmitter

Carrier frequencies	863.3 / 864.0 / 864.7 MHz
Radiated RF power	≤ 10 mW
Power supply	9 V DC via NT-RS 100 mains unit
Power consumption	< 1.8 VA
Channels	3
Connector	3.5 mm stereo jack plug

TR 145 transmitter

Weight	approx. 430 g
	app. 570 130 g

HDR 145 headphones

			•	
Transducer p	arincinie	dynami	c, circumaura	I CINSEN
Transaucer p	Jillicipic	aynanin	z, circumaara	i, ciosca

Max. SPL (at 1 kHz)	110 dB

NT-RS 110 mains unit

Nominal input voltage	230V AC
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Transmitters that operate in the 863 – 865 MHz frequency range can be used licence-free in the following countries: AT, BA, BE, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, ME, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, TR, UA.

Manufacturer Declarations

Warranty

Sennheiser GmbH & Co. KG gives a warranty of 24 months on this product. For the current warranty conditions, please visit our web site at www.sennheiser.com or contact your Sennheiser partner.

CE Declaration of Conformity

C€0682

This equipment is in compliance with the essential requirements and other relevant provisions of Directives 2006/95/EG and 1999/05/EG.

The declaration is available on the internet site at www.sennheiser.com. Before putting the equipment into operation, please observe the respective country-specific regulations!

Rechargeable batteries



The supplied 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.

WEEE Declaration



Your Sennheiser product was developed and manufactured with high-quality materials and components which can be recycled and/or reused. This symbol indicates that electrical and electronic equipment must be disposed of separately from normal waste at

the end of its operational lifetime.

Please dispose of this product by bringing it to your local collection point or recycling centre for such equipment. This will help to protect the environment in which we all live.

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