Replacing and inserting the rechargeable batteries

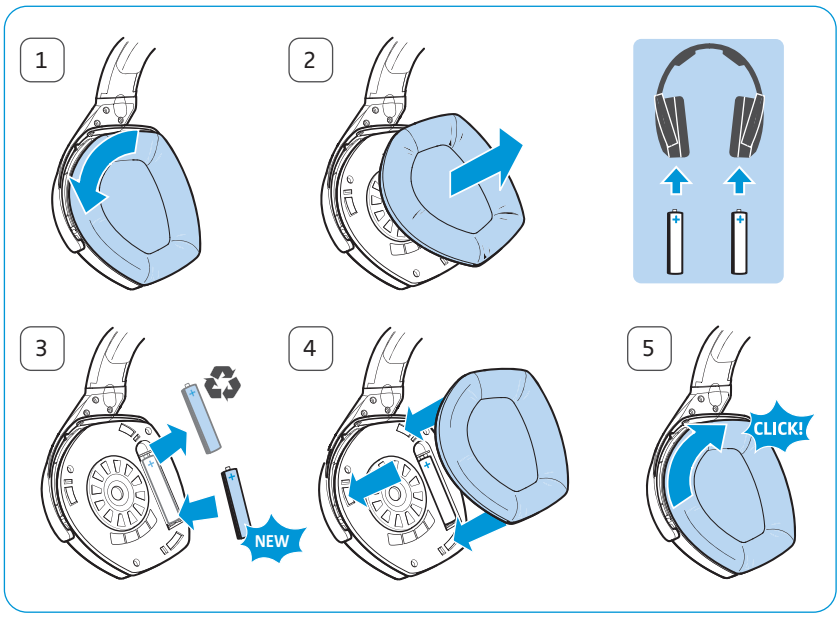
1 Lightly twist the ear pads counterclockwise until you overcome a slight resistance.

2 Lift the ear pads off the ear cups to reveal the battery compartments.

3 Insert the rechargeable batteries into the compartments. To replace the batteries, pull the batteries out of the compartments and insert the new ones. Be sure to observe correct polarity when inserting the batteries. Please dispose old batteries as special waste or return them to your specialist dealer.

4 Hook the ear pads onto the ear cups. As you put back the ear pads, observe the L (left) and R (right) markings on the rear of the ear pads.

5 Twist the ear pads clockwise until you hear a click sound. Ensure that they are locked firmly onto the ear cups.



You can also power the headphones using standard batteries (AAA size, 1.5 V). Note however, that standard batteries are not rechargeable, and if you are using non-rechargeable batteries, you must not place the headphones on the headphones holder.

Charging the rechargeable batteries

CAUTION **Danger of damage to the headphones!**

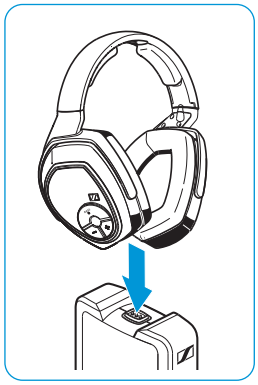
If you insert non-rechargeable batteries into the battery compartments, the batteries may leak during charging and can damage your headphones.

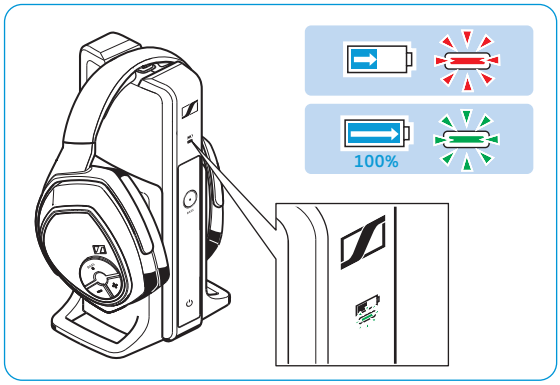
- Do not place the headphones on the headphones holder if you are using non-rechargeable batteries.

In general, a complete charging cycle takes about 8.5 hours. However, before using the headphones for the first time, charge the rechargeable batteries for at least 16 hours without interruption to optimize the performance of the batteries.

When the rechargeable batteries are almost empty, the HDR status LED turns red and you hear beeps in the headphones. The headphones switch off after few minutes.

- Place the headphones on the headphones holder of the transmitter. You may place the headphones on either side provided that the charging contacts of the headphones and the transmitter connect.
  The headphones automatically switch off and the Charge status LED on the transmitter lights up red. When the rechargeable batteries are fully charged, the Charge status LED turns green.





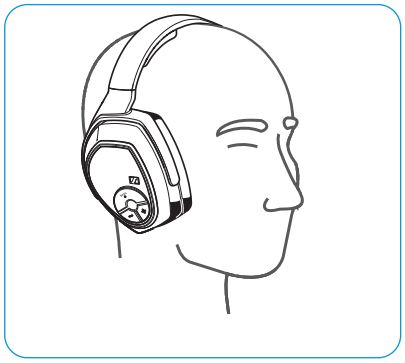
When not in use, place the headphones on the headphones holder to ensure that batteries are fully charged when needed. The transmitter utilizes an intelligent battery charging technology that prevents overcharging.

After taking the headphones from the holder, the charge status LED indicates the approximate operating time (see page 9).

Adjusting the headband

For good sound quality and best possible wearing comfort, the headband has to be adjusted to properly fit your head. The headphones feature an adjustable headband with a snap-in locking mechanism for easy adjustment.

- Wear the headphones so that the headband runs over the top of your head. Observe the L (left) and R (right) markings on the outer headband when putting the headphones on.
- Adjust the length of the headband until
  - your ears are comfortably covered by the ear pads,
  - you feel even, gentle pressure around your ears,
  - a snug fit of the headband on the head is ensured.



Using the RS 165 headphone system

Switching your wireless headphone system on

WARNING

Danger due to high volume levels!

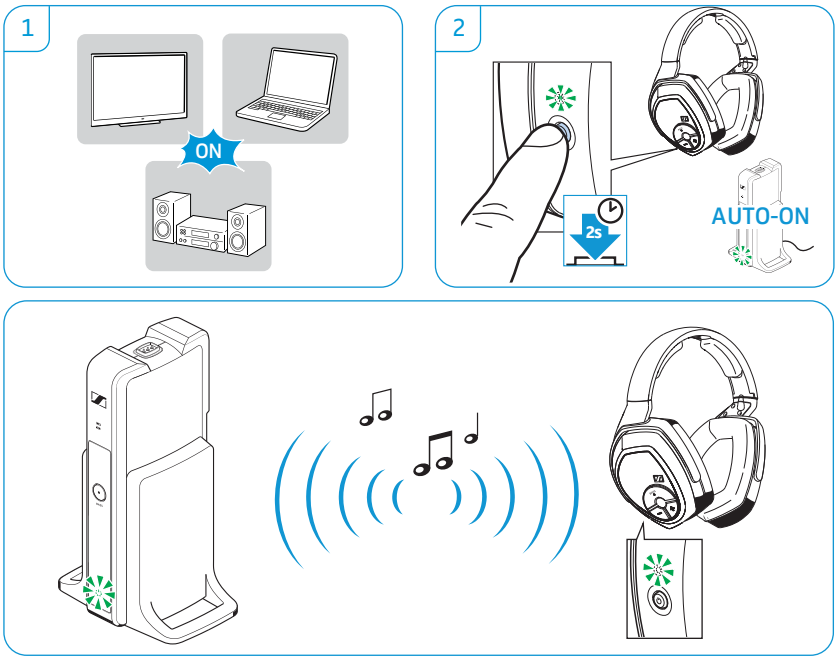
Listening at high volume levels can lead to permanent hearing defects.

- Before putting the headphones on, adjust the volume on the headphones to a low level.
- Do not expose yourself to high volume levels for long periods of time.

1 Switch your audio source on.

If you are using the headphone connection (see page 13) to connect to your audio source, adjust the volume from the source, or in some cases from the headphone socket on your audio source (e.g. TV), to at least the medium level.

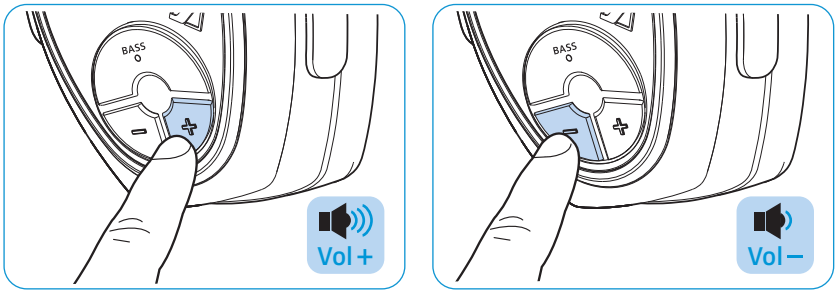
2 Press and hold the HDR power button ⏻ for approx. 2 seconds to switch the headphones on.
The transmitter in standby mode recognizes the active paired headphones and automatically transmits a signal. The status LEDs on the transmitter and the headphones light up green.



If the headphones are brought outside the transmission range or if there is no audio signal received from the transmitter for more than 5 minutes, the headphones switch off automatically.

Adjusting the volume

- Press the Volume + button or the Volume – button repeatedly until the volume is adjusted to a desired level. When the minimum or maximum volume setting is reached, you hear a beep in the headphones.



Muting/unmuting the headphones

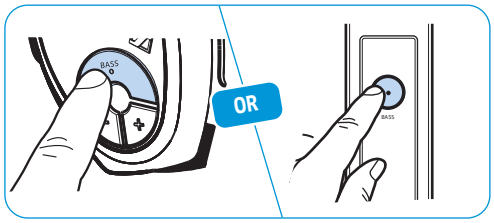
- Press the HDR power button ⏻ to mute the headphones.
- Press the HDR power button ⏻ or any of the Volume +/– buttons to cancel the muting.

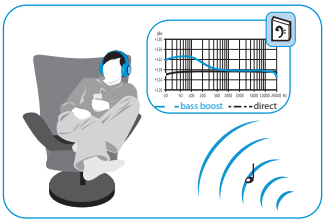
If the headphones are muted for 15 minutes, the headphones switch off automatically to save energy

Activating/deactivating the dynamic bass boost

The dynamic bass boost feature allows you to select 2 different levels of bass intensity. You can activate or deactivate the dynamic bass boost from the transmitter or directly from your headphones.

- Press the BASS button either on the headphones or the transmitter. The bass boost effect switches between on and off modes, as indicated by the BASS LED indicator.





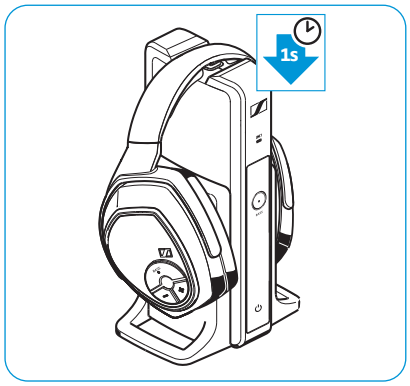
BASS LED	Meaning
	The bass boost effect is active.
	The bass boost effect is inactive.

Pairing one or several headphones to the transmitter

The headphones and the transmitter enclosed in this package have been paired from the factory. The following procedure is only necessary if you have cleared all pairing information from your wireless headphone system and you want to revive the lost pairing, or if you want to pair another set of headphones to the transmitter.

You can connect up to 4 paired headphones simultaneously with your TR 165 transmitter.

- Place the headphones on the headphones holder of the transmitter for a second.
  The Charge status LED on the transmitter lights up red. The headphones are paired to the transmitter.

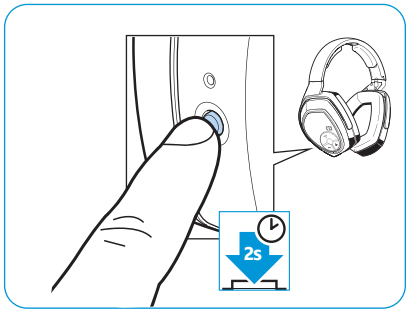


Switching your wireless headphones off

There are two ways to switch your wireless headphones off.

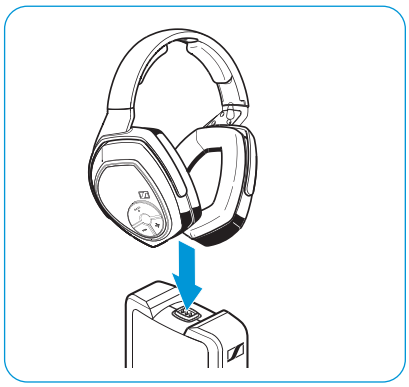
A

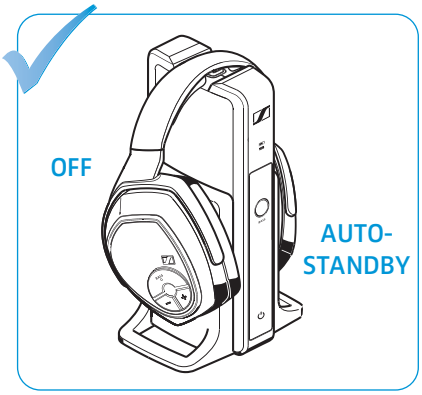
- Press and hold the HDR power button ⏻ for approx. 2 seconds.
  The headphones switch off. If no other pair of active wireless headphones is connected to the transmitter, the transmitter switches to standby mode. All LEDs are off.



B

- Place the headphones on the headphone holder of the transmitter.
  The headphones switch off and the charging process starts (see page 17). If no other pair of active wireless headphones is connected to the transmitter, the transmitter switches to standby mode.





To disconnect the transmitter from the power source, unplug the power supply unit from the AC wall outlet.

Cleaning and maintaining the RS 165

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 away from the product.
- Do not use any cleansing agents or solvents.

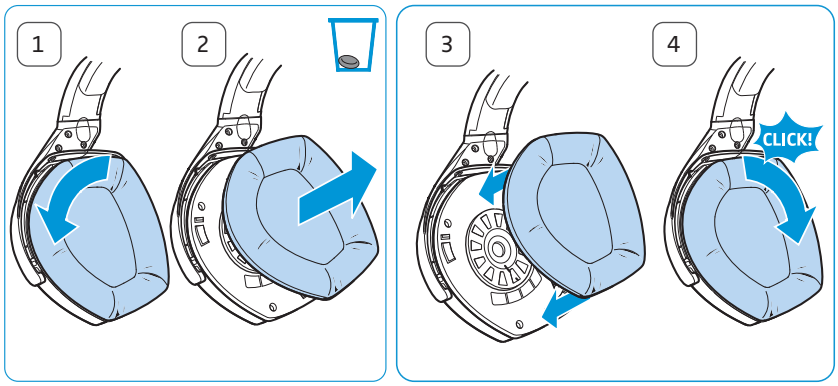
To clean the wireless headphone system:

- Switch your wireless headphone system off and disconnect the transmitter from the AC wall outlet before cleaning.
- Clean the product only with a soft, dry cloth.

Replacing the ear pads

For reasons of hygiene, you should replace the ear pads from time to time. Spare ear pads are available at your local Sennheiser partner.

1. Lightly twist the ear pads counterclockwise until you overcome a slight resistance.
2. Lift the ear pads off the ear cups and dispose of them properly.
3. Hook the new ear pads onto the ear cups. Observe the L (left) and R (right) markings on the rear of the ear pads.
4. Twist the ear pads clockwise until you hear a click sound. Ensure that they are locked firmly onto the ear cups.



Troubleshooting

Sound problems

Problem	Possible cause	Possible solutions	Page
No sound	Headphones are switched off.	Switch the headphones on.	19
	No power connection.	Check the connection of the power supply unit.	15
	Headphones are muted.	Deactivate the muting function.	20
	Audio plug is not properly connected.	Check the audio plug connection.	11
	Audio source is switched off.	Switch the audio source on.	–
	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 from the audio source.	–
	Audio cable is defective.	Replace the audio cable.	–
	Headphones are not correctly paired with the transmitter (e.g. additional headphones).	Pair the headphones with the transmitter again.	22
Sound dropouts/ no sound	Headphones are out of the transmitter's range.	Reduce the distance between headphones and transmitter.	–
	Signal is shielded.	Remove obstacles between the transmitter and headphones.	–
	There are interfering devices (e.g. WLAN routers, Bluetooth devices or microwaves) in the vicinity.	Change the position of the transmitter or of the headphones.	11
		Ensure that the transmitter is separated from other wireless devices by at least 50 cm/20''.	–
Sound is too low	Headphone volume is adjusted too low.	Increase the volume on the headphones.	20
	Volume of the analog audio source is adjusted too low.	Increase the volume on the analog audio source to at least a medium level.	–
Echos when using headphones and TV tone	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''.	–
Sound only on one ear	Audio cable is not properly connected.	Check the plug connection.	11
	Audio cable is defective.	Replace the audio cable.	–
Sound is distorted	Signal of the audio source is distorted.	Reduce the volume of the audio source.	–
	Headphone volume is adjusted too high.	Reduce the volume on the headphones.	20
	Volume of the analog audio source is adjusted too high.	Decrease the volume of the analog audio source at least to a medium volume level.	–

Other problems

Problem	Possible cause	Possible solutions	Page
Transmitter does not turn on	No power connection.	Check the connection of the power supply unit.	15
Headphones do not turn on	The rechargeable batteries are almost empty.	Recharge the rechargeable batteries.	17
	No batteries inside the battery compartments.	Insert the rechargeable batteries.	16
	The rechargeable batteries are inserted the wrong way round.	Remove the rechargeable batteries from the headphones and reinsert them again. Observe correct polarity.	16
Operating time decreases	The rechargeable batteries are exhausted.	Replace the rechargeable batteries with new ones.	16
You hear beeps in the headphones	The rechargeable batteries are almost drained.	Recharge the rechargeable batteries.	17
Headphones cannot be connected to the transmitter	Distance to the transmitter is too large.	Reduce the distance to the transmitter.	–
	Headphones are not paired with the transmitter.	Pair the headphones with the transmitter.	–
	Another set of headphones is being charged so I can't pair my second headphones.	Perform a proximity pairing: 1. Place the headphones as close as possible to the transmitter. 2. Switch headphones on. 3. Press the Volume +/- buttons simultaneously for about 7 seconds.	–
	Headphones are not compatible.	Use Sennheiser HDR 165, 175, 185, or 195 wireless headphones only.	–

If you encounter a problem that is not listed in the table, or if the solutions provided do not work, please visit our FAQ page at www.sennheiser.com for the most up-to-date list of frequently asked questions.

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

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.

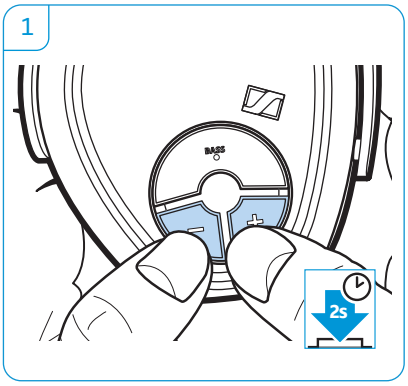
If you re-enter the transmission range within 5 minutes, the connection is automatically re-established.

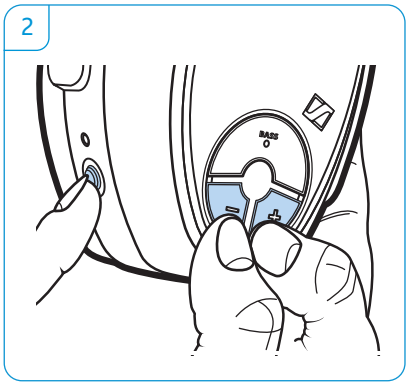
If you spend more than 5 minutes outside the transmission range, the headphones switch off automatically.

Clearing the pair settings on the headphones

1 Press the Volume +/- buttons simultaneously and hold for 2 seconds. The HDR status LED blinks red rapidly.

2 Press the HDR power button ⏻ while continuously holding the Volume +/- buttons. Release all 3 buttons.
The HDR status LED lights up green or red, depending on the battery condition, and starts blinking slowly. The pair settings on the headphones are cleared.





Specifications

RS 165 system

Carrier frequency	2.40 to 2.48 GHz
Modulation	8-FSK Digital
RF output power	max. 10 dBm Class 1
Transmission range	up to 30 m line of sight
Max. numbers of paired headphones	4
Temperature range	Operation: 0 °C to +40 °C/32 °F to 104 °F Storage: -25 °C to +70 °C/-13 °F to 158 °F
Relative humidity	Operation: 10 to 80 % Storage: 10 to 90 %

HDR 165 headphones

Transducer principle	circumaural, closed
Transducer system	dynamic, neodymium magnets
Frequency response	18 Hz to 21 kHz
Max. SPL	107 dB at 1 kHz, 100 dB SPL
THD	< 0.5 % at 1 kHz, 100 dB SPL
Operating time	up to 18 hours
Charging time of rechargeable batteries	up to 8 hours 30 min
Power supply	2 AAA size low self-discharge NiMH rechargeable batteries, 1.2 V, 820 mAh
Weight (incl. batteries)	approx. 300 g
Dimensions (W x H x D)	approx. 17 cm x 20 cm x 9.5 cm

TR 165 transmitter

Connections	analog: 3.5 mm stereo jack socket
Power supply	9 V ⎓, 300 mA
Power consumption	Operation: typ. 4 W Standby mode: typ. 0.25 W (without charging)
Dimensions (W x H x D)	approx. 12.7 cm x 23.4 cm x 10 cm

Sennheiser NT 9-3AW power supply unit

Rated input	100 – 240 V~, 0.2 A, 50 – 60 Hz
Rated output	9 V ⎓, 300 mA
Temperature range	Operation: 0 °C to +40 °C/32 °F to 104 °F Storage: -25 °C to +70 °C/-13 °F to 158 °F
Relative humidity	Operation: 10 to 80 % Storage: 10 to 90 %

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

- WEEE Directive (2012/19/EU)

  Please dispose of this product at the end of its operational lifetime by taking it to your local collection point or recycling center for such equipment.

- Battery Directive (2013/56/EU)

  The supplied standard/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 Conformity

- R&TTE Directive (1999/5/EC)
- EMC Directive (2014/30/EU)
- Low Voltage Directive (2014/35/EU)
- ErP Directive (2009/125/EC)
- RoHS Directive (2011/65/EU)

The CE Declaration of Conformity is available on our website at www.sennheiser.com.

Statements regarding FCC and Industry Canada

FCC Declaration of Conformity (DoC)

SENNHEISER
Model No: RS 165

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 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: Greg Beebe

This device 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 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. 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.

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.

Trademarks

Sennheiser is a registered trademark of
Sennheiser electronic GmbH & Co. KG.

Other product and company names mentioned in this instruction manual may be the trademarks or registered trademarks of their respective holders.

SENNHEISER

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