Sennheiser RS 165

Sennheiser RS 165 RF Wireless Headphone System User Manual

1. INTRODUCTION AND OVERVIEW

The Sennheiser RS 165 is a digital wireless headphone system designed for home audio entertainment. It features an ergonomic, closed, circumaural design that effectively reduces background noise, providing a comfortable fit for extended listening sessions. The system offers robust digital wireless audio transmission with minimal latency, ensuring a vibrant and detailed sound reproduction. A selectable Bass Boost mode is available for enhanced audio power.

Figure 1: Sennheiser RS 165 Headphones (HDR 165) on the TR 165 Transmitter/Charging Cradle.

This image displays the Sennheiser RS 165 wireless headphones resting on their sleek black charging stand. The

headphones are black with silver accents on the earcups, featuring the Sennheiser logo. The charging stand is also black, with indicator lights and a power button visible on its front panel.

2. WHAT'S IN THE BOX

Please ensure all components are present before proceeding with setup:

- HDR 165 Wireless Headphones
- TR 165 Transmitter / Charging Cradle
- Power Supply Unit
- Audio Cable (3.5 mm stereo jack)
- 2 x AAA NiMH Rechargeable Batteries

Figure 2: Individual components of the Sennheiser RS 165 system.

This image shows the Sennheiser RS 165 headphones and the TR 165 transmitter/charging cradle displayed separately. The headphones are folded, highlighting their compact design, while the transmitter stands upright, ready for connection.

3. SETUP

1. **Connect the Transmitter:** Connect the TR 165 transmitter to your audio source (e.g., TV, stereo system) using the supplied 3.5 mm audio cable. Ensure a secure connection.

2. **Power the Transmitter:** Plug the power supply unit into the transmitter's power input and then into a wall outlet. The power indicator on the transmitter will light up.

3. **Insert Batteries into Headphones:** Open the battery compartment on the headphones and insert the supplied AAA NiMH rechargeable batteries, observing the correct polarity.

4. **Charge the Headphones:** Place the HDR 165 headphones onto the TR 165 transmitter's charging cradle. Ensure the charging contacts align. The charging indicator on the headphones will illuminate. Allow approximately 16 hours for the initial full charge.

5. **Automatic Pairing:** The headphones and transmitter are typically pre-paired at the factory. Once both are powered on and the headphones are charged, they should automatically connect. If not, refer to the troubleshooting section for manual pairing instructions.

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4. OPERATING INSTRUCTIONS

4.1 Wearing the Headphones

Adjust the headband for a comfortable and secure fit. The circumaural design should fully enclose your ears to optimize sound quality and passive noise reduction.

4.2 Powering On/Off

- **Headphones:** Press and hold the power button on the right earcup for approximately 2 seconds. The LED indicator will light up.
- **Transmitter:** The transmitter powers on automatically when connected to power and an audio source.
- **To Power Off:** Press and hold the power button on the headphones until the LED turns off. The transmitter will enter standby mode if no audio signal is detected for an extended period.

4.3 Volume Control

Use the volume up (+) and volume down (-) buttons located on the right earcup to adjust the listening volume.

4.4 Bass Boost Mode

Press the 'BASS' button on the right earcup to activate or deactivate the Bass Boost mode, which enhances low-frequency audio for a more impactful sound experience.

HDR 165

BASS

R

This close-up image shows the controls located on the right earcup of the Sennheiser RS 165 headphones. Clearly visible are the power button, volume up/down buttons, and the 'BASS' boost button, all designed for easy access during use.

4.5 Multi-Receiver Transmission

The TR 165 transmitter supports simultaneous transmission to up to two pairs of headphones (additional HDR 165 headphones sold separately). To connect a second pair, simply place them on the charging cradle of the powered-on transmitter, and they will automatically pair.

Video 1: Official product video demonstrating the Sennheiser RS 165 RF Wireless Headphone System in use, highlighting its features and benefits for home entertainment.

Video 2: An overview of the Sennheiser RS Digital Wireless Headphones Series, showcasing various models including the RS 165 and their shared features like bass boost and digital wireless transmission.

5. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the headphones and transmitter. Do not use cleaning agents or solvents.
- **Battery Care:** For optimal battery life, fully charge the headphones regularly. If not used for an extended period, store the headphones with fully charged batteries.
- **Storage:** Store the system in a cool, dry place away from direct sunlight and extreme temperatures.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
No sound or sound dropouts	Headphones out of range, signal interference, low battery.	Move closer to the transmitter. Ensure no large obstacles or other 2.4 GHz devices are interfering. Recharge headphones.
No power to transmitter	Power supply not connected or faulty outlet.	Check power supply connection and try a different outlet.
Headphones not charging	Improper placement on cradle, dirty contacts, faulty batteries.	Ensure headphones are correctly seated. Clean charging contacts. Replace batteries if necessary.
Poor audio quality (hissing, static)	Interference, weak signal, audio source issue.	Reduce interference sources. Check audio cable connection. Adjust audio source volume.

7. SPECIFICATIONS

- **Model:** RS 165 (Headphones: HDR 165, Transmitter: TR 165)

- **Connectivity:** Digital Wireless (RF)
- **Carrier Frequencies:** 2.4 – 2.48 GHz
- **Range:** Up to 30 meters (100 feet)
- **Frequency Response:** 18 - 21,000 Hz
- **Max. Sound Pressure Level:** 106 dB at 1kHz, 3% THD
- **Signal-to-Noise Ratio:** Typ. 85 dBA at 1 Vrms
- **Battery Life:** Up to 18 hours
- **Charging Time:** Approx. 16 hours for initial charge
- **Battery Type:** 2 x AAA NiMH rechargeable batteries (included)
- **Input Device Interface:** Analog
- **Design:** Closed back, circumaural
- **Dimensions (Product):** 9.3 x 5.9 x 11.6 inches
- **Weight (Headphones):** 10.6 ounces
- **Special Features:** Selectable Bass Boost, Volume Control, Multi-receiver support
- **Noise Control:** Active Noise Cancellation (as per specifications, note: product description emphasizes passive noise reduction from design)

8. WARRANTY AND SUPPORT

8.1 Warranty Information

The Sennheiser RS 165 RF Wireless Headphone System comes with a **two-year warranty** when purchased from an authorized Sennheiser dealer. Please retain your proof of purchase for warranty claims.

8.2 Customer Support

For further assistance, technical support, or warranty service, please contact Sennheiser customer support through their official website or the contact information provided in your product packaging. You may also visit the Sennheiser Store on Amazon for additional product information.