

SIMOLIO SM-824D2

SIMOLIO SM-824D2 Dual Wireless Headphones User Manual

Model: SM-824D2 | Brand: SIMOLIO

1. INTRODUCTION

Thank you for choosing the SIMOLIO SM-824D2 Dual Wireless Headphones. This manual provides detailed instructions to help you set up, operate, and maintain your headphones for an optimal TV watching experience. These headphones are designed to provide superior sound reproduction with features like tone and balance control, ambient sound listening, and no audio delay, making them ideal for seniors and individuals with hearing challenges. Key features include:

- **2.4GHz Digital Wireless Technology:** Ensures no audio delay and a strong signal range up to 164 feet, even through walls.
- **Dual Headphone System:** Allows two users to listen simultaneously.
- **Tone and Balance Control:** Customize audio frequency and adjust left/right volume independently for personalized listening.
- **Ambient Sound Mode:** Hear surrounding conversations without removing the headphones.
- **Multiple Audio Inputs:** Supports Optical, RCA, and 3.5mm AUX audio outputs from most TVs.
- **Spare Battery:** A backup battery is always charged and ready in the base for extended listening.

2. SETUP

2.1. What's in the Box

Before you begin, please ensure all components are present:

- 1 Transmitter with 2nd Battery Inserted
- 2 Headsets
- Power adapter and cable for U.S.
- Optical Audio Cable
- RCA Audio Cable
- AUX Audio Cable
- English User Manual
- English Quick Guide

164FT Wireless Freedom!

Walk around, stay connected, and enjoy up to 14 hours of seamless listening.

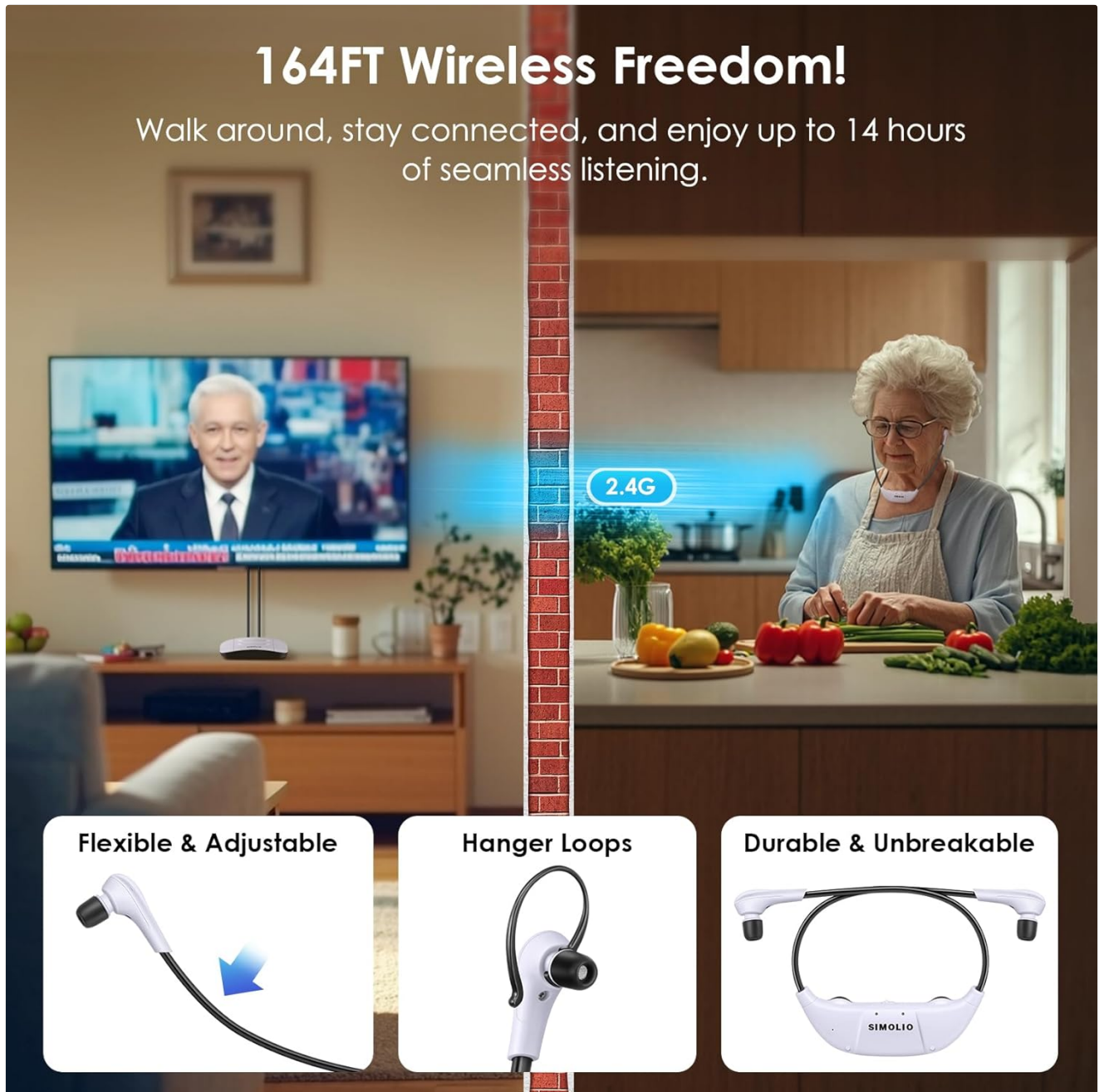


Figure 2.1: All components included in the SIMOLIO SM-824D2 package.

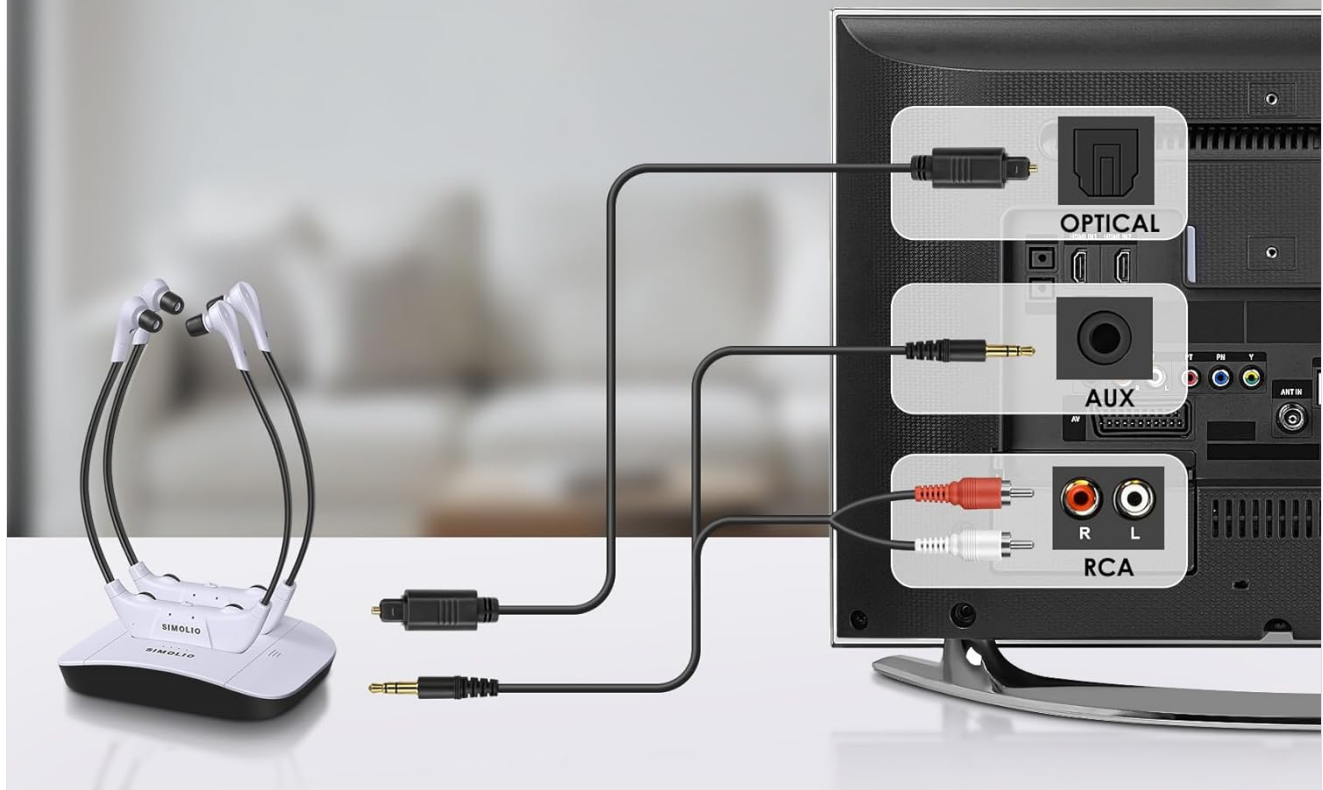
2.2. Connecting to Your TV

The SIMOLIO SM-824D2 supports Optical, RCA, and 3.5mm AUX audio outputs. Follow these steps to connect the transmitter base to your TV:

1. Connect the power adapter to the transmitter base and plug it into a wall outlet.
2. Identify the available audio output port on your TV (Optical, RCA, or AUX).
3. Use the appropriate audio cable (Optical, RCA, or AUX) to connect the transmitter base to your TV's audio output port.
4. Ensure the connection is secure.

Works with 99% TVs

(Optical/RCA/AUX/Smart TV with Built-in Bluetooth)



Note: For TVs with HDMI ARC port only, you will need a converter for installation (purchase separately)

Figure 2.2: Connection options for the SIMOLIO transmitter base to various TV audio outputs.

For optimal sound, ensure your TV's audio output settings are correctly configured. Some TVs may require setting the audio format to PCM, especially when using the optical connection.



Figure 2.3: Steps to check TV audio output compatibility and solutions for various port types.

Video Guide: TV Compatibility and Audio Settings

This video provides a comprehensive guide on understanding TV compatibility and adjusting TV-related audio settings for your SIMOLIO headphones.

3. OPERATING INSTRUCTIONS

3.1. Charging the Headphones

The headphones are designed for continuous use with a convenient charging system. A full charge provides approximately 14 hours of listening time.

- Place the headphones onto the transmitter base. They will automatically begin charging.
- The base includes a specially designed charging compartment for a spare battery, ensuring you always have a ready-to-use battery.



Figure 3.1: Plug & Charge - Headphones charging on the transmitter base.

A Few Steps To Check if the Speaker Works On My TV ?

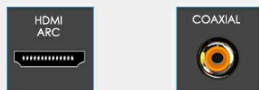
1. Check if your TV has ANY One of the Audio Out Port.



If your TV's HDMI (ARC) is connected with other device, the optical may not output audio. This is TV dependent.

If you use streaming media like netflix, please set the audio format to PCM before changing to **PCM**.

2. If I do not find any one of the above ports on my TV, what to do?



If you find this kind of port on your TV, you need to purchase an **HDMI ARC converter**.

If you find this kind of port on your TV, you need to purchase a **digital analog converter**.

3. If my TV does not have any one of the above mentioned ports, what to do?



If your TV program comes only from a fixed TV box, like an AV receiver or a streaming box, you can connect the transmitter base to the TV box, as long as you can find any one of the above audio out ports on your TV box.

4. If my TV or my use case do not meet any one of the above requirements, what to do?



The product may not work for you. It's strongly recommended that you contact seller **BEFORE YOUR PURCHASE**.

Figure 3.2: Top-Grade Safety Battery features for enhanced durability and safety.

3.2. Adjusting Sound

The headphones offer various controls to personalize your listening experience:

- **Volume Control:** Adjust the overall volume using the dedicated buttons on the headset.
- **Tone Control:** Select from different tone options (Dialog Clear, Cinema, Standard) to find the optimum sound frequency for clear audio.
- **Balance Control:** Adjust the volume balance between the left and right ears, ideal for users with unique hearing conditions.
- **Mono/Stereo Option:** Switch between mono and stereo sound modes based on your preference.
- **Ambient Sound Mode:** Activate this mode to hear nearby conversations without removing your headphones.

Why Compromise When You Can Customize Experience Crystal-clear TV Audio Like Never Before

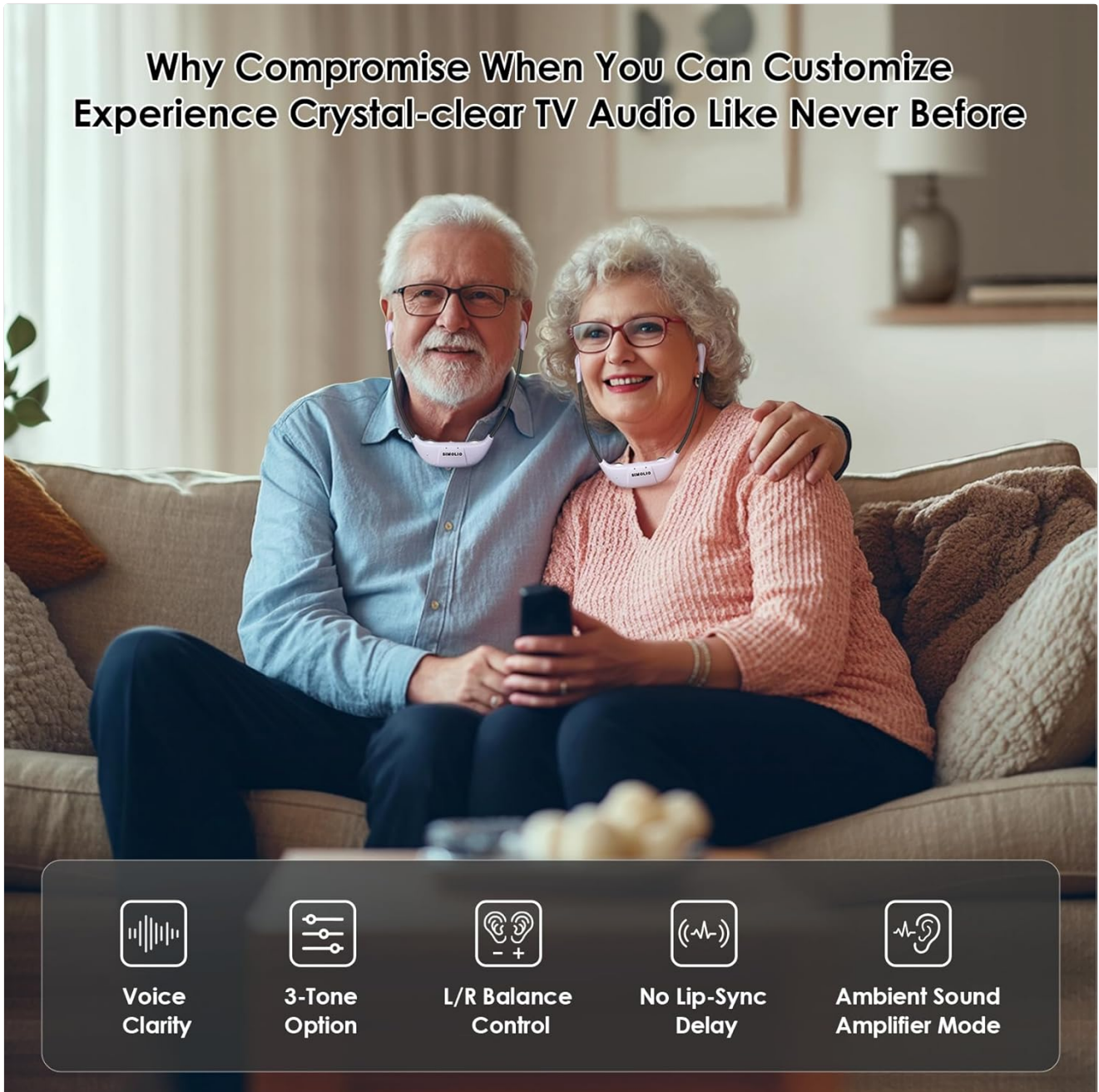


Figure 3.3: Customize your TV audio experience with various sound controls.



Figure 3.4: Left-Right Balance Adjustment for personalized hearing.



Figure 3.5: Three Personalized Sound Modes for different content types.

3.3. Dual Headphone Use and Soundbar Integration

The SM-824D2 allows for a harmonious listening environment:

- **Simultaneous Listening:** Both headphones can be used at the same time, each with independent volume control.
- **Soundbar Bypass:** When connected via optical, the 'by-pass' feature allows the TV headset to work simultaneously with your existing soundbar or stereo AV receiver. This means you can listen through the headphones at your preferred volume while others hear through the soundbar.



Figure 3.6: Enjoy peaceful TV viewing for all with dual headphones and soundbar integration.



Figure 3.7: Soundbar & Wireless Headphones Together (Optical input only).

3.4. Wireless Range and Freedom

Experience unparalleled freedom of movement with the 2.4GHz digital wireless technology:

- **Extended Range:** Enjoy a working range of up to 164 feet, allowing you to move freely around your home without losing audio.
- **No Audio Delay:** The advanced technology ensures perfect lip-sync, so audio matches video without noticeable delay.
- **Signal Penetration:** The strong signal can pass through ceilings and walls, providing consistent audio quality throughout your space.



Figure 3.8: Enjoy 164FT Wireless Freedom with seamless listening.



Figure 3.9: 2.4GHz System vs. Infrared System comparison.

4. MAINTENANCE

4.1. Cleaning

To ensure the longevity and hygiene of your headphones:

- Wipe the headphones and transmitter base with a soft, dry cloth.
- For stubborn dirt, slightly dampen the cloth with water. Avoid using harsh chemicals or abrasive cleaners.
- Regularly clean the ear tips. The super-soft memory foam eartips are washable.

4.2. Battery Care

The headphones use Lithium Polymer batteries. To maximize battery life:

- Always return the headphones to the charging base when not in use.
- Utilize the spare battery feature to ensure continuous listening without interruption.
- Avoid exposing batteries to extreme temperatures.

5. TROUBLESHOOTING

If you encounter issues with your SIMOLIO SM-824D2 headphones, please refer to the common problems and solutions below. For more detailed assistance, consult the [Troubleshooting Guide \(PDF\)](#) or [User Guide \(PDF\)](#) provided by SIMOLIO.

Common Issues & Solutions:

- **No Sound or Low Volume:**
 - Ensure the TV volume is turned up to a sufficient level (30-40%) to provide a strong signal to the transmitter.
 - Check the volume level on the headphones themselves and adjust as needed.
 - Verify that the correct audio output is selected on your TV (e.g., Optical, RCA, AUX).
 - Confirm that the TONE and MONO/STEREO switches on the back of the transmitter base are set correctly. We recommend TONE set to 'Dialog Clear' and MONO/STEREO set to 'MONO' for initial setup.
- **Audio Delay/Lip-Sync Issues:**
 - The 2.4GHz technology is designed for no audio delay. Ensure your TV's audio output is set to PCM if using optical, as some TV settings (like Dolby Digital) can introduce delay.
- **Intermittent Sound or Signal Loss:**
 - Ensure the transmitter is within the effective range (up to 164 feet) and not obstructed by dense materials.
 - Check battery level of the headphones and replace with the spare battery if low.
- **Headphones Not Charging:**
 - Ensure the headphones are correctly seated on the charging pins of the transmitter base.
 - Verify the power adapter is securely connected to the base and a working power outlet.

Troubleshooting Video Guides:

This video addresses common issues related to low volume or poor sound quality and provides steps to resolve them.

Guide for resolving 'No Sound' issues when connecting to Philips TVs via Optical output.

Instructions on how to fix 'No Sound' problems with LG TV Optical Out connections.

Solutions for 'No Sound' when connecting to Samsung TV's Optical output.

6. SPECIFICATIONS

Feature	Detail
Model Name	SM-824D2
Brand	SIMOLIO
Connectivity Technology	Wireless (RF 2.4GHz)
Headphones Jack	3.5 mm Jack (for AUX input)
Noise Control	Active Noise Cancellation
Compatible Devices	TVs with Optical, RCA, or 3.5mm AUX Audio Out Ports
Battery Life	Up to 14 hours per charge (40 hours total with spare battery)
Charging Time	3 Hours
Item Weight	2.04 Ounces
Frequency Range	20Hz-20KHz
Material	Plastic

7. WARRANTY AND SUPPORT

7.1. Protection Plans

SIMOLIO offers various protection plans for your product:

- **2-Year Protection Plan:** Available for purchase.
- **3-Year Protection Plan:** Available for purchase.
- **Complete Protect:** Monthly renewable plan covering eligible past and future purchases.

Please refer to the product listing or contact SIMOLIO support for details on pricing and coverage.

7.2. Return Policy

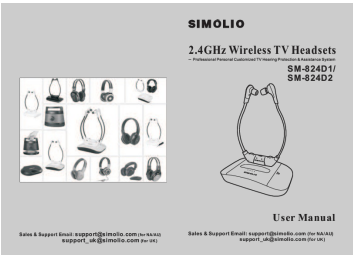
The product is eligible for a 30-day refund/replacement return policy. Please check the retailer's specific return policy for full details.

7.3. Customer Support

For any questions, technical assistance, or support, please contact SIMOLIO directly. You can find contact information in the included User Manual or Quick Guide, or visit the official SIMOLIO website.

Sales & Support Email: support@simolio.com

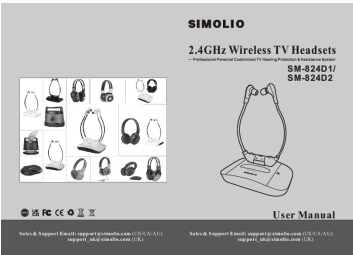
Documents - SIMOLIO – SM-824D2



[SIMOLIO SM-824D1 SM-824D2 2.4GHz Wireless TV Headsets User Manual](#)

Comprehensive user manual for SIMOLIO SM-824D1 and SM-824D2 2.4GHz Wireless TV Headsets, offering crystal-clear audio, hearing protection, and assistance. Learn about features like voice highlighting, noise cancellation, balance control, multiple charging solutions, and detailed setup instructions for various TV audio outputs (Optical, RCA, 3.5mm AUX).

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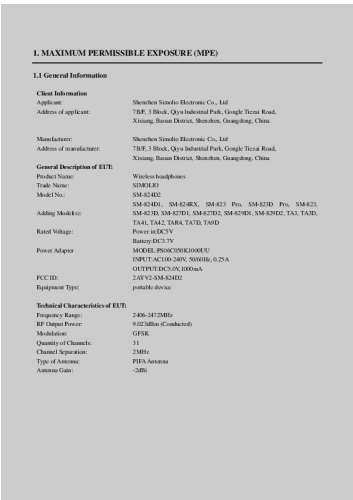


[\[pdf\] User Manual Guide Diagram](#)

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2.4GHz Wireless TV Headsets SM-824D1/**SM-824D2** Sales Support Email: support simolio.com US/CA/AU support_uk simolio.com UK User Manual Sales Support Email: support simolio.com US/CA/AU support_uk simolio.com UK SM-824D1/**SM-824D2** Thank you for choosing the SIMOLIO SM-824D1 /**SM-824D2** ...

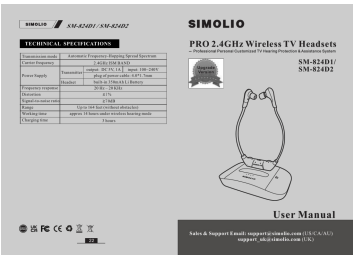
lang:en score:47 filesize: 2.24 M page_count: 12 document date: 2024-01-04



[SIMOLIO Wireless Headphones Maximum Permissible Exposure \(MPE\) Report](#)

This document details the Maximum Permissible Exposure (MPE) report for SIMOLIO wireless headphones, including models SM-824D2, SM-824D1, SM-824RX, and others. It outlines general product information, technical characteristics, FCC standards, and MPE calculation results to ensure compliance with RF exposure limits.

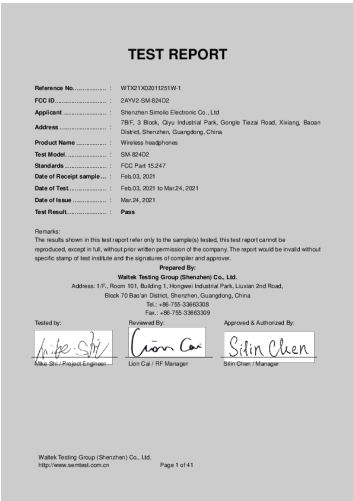
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[SIMOLIO SM-824D1/SM-824D2 PRO 2.4GHz Wireless TV Headsets User Manual](#)

Comprehensive user manual for SIMOLIO SM-824D1/SM-824D2 PRO 2.4GHz Wireless TV Headsets. Learn about features, setup, troubleshooting, warranty, and technical specifications for enhanced TV audio.

lang:en score:44 filesize: 1.37 M page_count: 12 document date: 2025-07-17



FCC Test Report for Simolio Wireless Headphones SM-824D2

This FCC Test Report details the compliance testing of Simolio Wireless Headphones, model SM-824D2, and its variants. It covers various radio frequency parameters including power spectral density, DTS bandwidth, RF output power, field strength of spurious emissions, and conducted emissions, ensuring adherence to FCC Part 15.247 and ANSI C63.10-2013 standards. The report confirms the product's compliance with all applicable regulations.

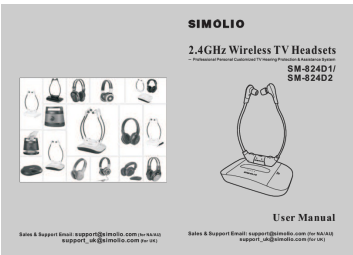
lang:en score:41 filesize: 1.75 M page_count: 41 document date: 2021-03-31



SIMOLIO 2.4GHz Wireless TV Kopfhörer SM-824D1/SM-824D2 Benutzerhandbuch

Das Benutzerhandbuch für die SIMOLIO SM-824D1/SM-824D2 2.4GHz Wireless TV Kopfhörer bietet detaillierte Anweisungen zur Installation, Verwendung und Fehlerbehebung. Erfahren Sie mehr über Funktionen wie Gehörschutz, Stimmverdeutlichung, Geräuschunterdrückung und Kompatibilität mit verschiedenen Audioquellen für ein optimales Hörerlebnis.

lang:de score:40 filesize: 3.23 M page_count: 12 document date: 2020-08-12



SIMOLIO SM-824D1 SM-824D2 2.4GHz Wireless TV Headsets User Manual

Comprehensive user manual for SIMOLIO SM-824D1 and SM-824D2 2.4GHz Wireless TV Headsets, offering crystal-clear audio, hearing protection, and assistance. Learn about features like voice highlighting, noise cancellation, balance control, multiple charging solutions, and detailed setup instructions for various TV audio outputs (Optical, RCA, 3.5mm AUX).

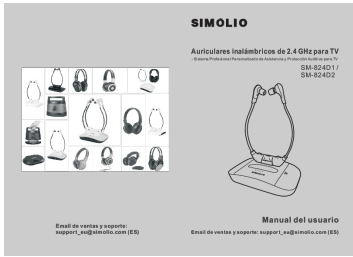
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SIMOLIO Wireless TV Headsets Troubleshooting Guide

A comprehensive guide to troubleshooting common issues with SIMOLIO Wireless TV Headsets, including no sound, intermittent audio, and sound from only one side. Provides step-by-step instructions and tips for optimal performance.

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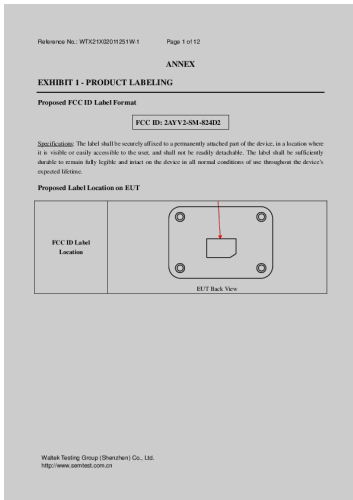


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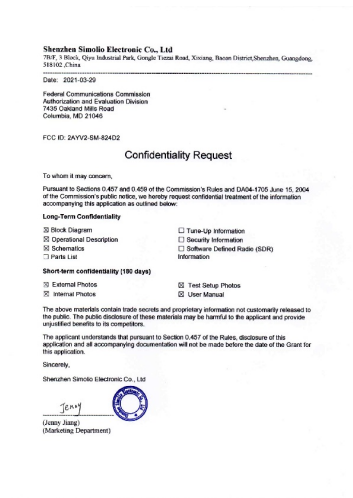
[\[pdf\]](#) Label

Microsoft Word ANNEX Part 15C Administrator Label Info Location Shenzhen Simolio Electronic Co Ltd SM 824D2 Wireless headphones 2AYV2 2AYV2SM824D2 sm 824d2

Reference No.: WTX21X02011251W-1 Page 1 of 12 ANNEX EXHIBIT 1 - PRODUCT LABELING Proposed FCC ID Label Format FCC ID: 2AYV2-**SM-824D2**

Specifications: The label shall be securely affixed to a permanently attached part of the device, in a location where it is visible or easily accessible to the user...

lang:de **score:32** filesize: 11.04 K page_count: 1 document date: 2021-03-31



[\[pdf\]](#) Confidentiality Request Letter

Confidential Letter Shenzhen Simolio Electronic Co Ltd SM 824D2 Wireless headphones 2AYV2 2AYV2SM824D2 sm 824d2

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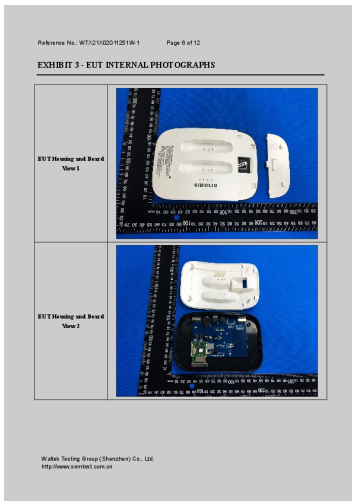


[\[pdf\]](#) Product Photos

Microsoft Word ANNEX Part 15C Administrator External Photos Shenzhen Simolio Electronic Co Ltd SM 824D2 Wireless headphones 2AYV2 2AYV2SM824D2 sm 824d2

Reference No.: WTX21X02011251W-1 Page 2 of 12 EXHIBIT 2 - EUT EXTERNAL PHOTOGRAPHS EUT View 1 EUT View 2 Waltek Testing Group Shenzhen Co., Ltd. http://www.semtest.com.cn Reference No.: WTX21X02011251W-1 Page 3 of 12 EUT View 3 EUT View 4 Waltek Testing Group Shenzhen Co., Ltd. http://...

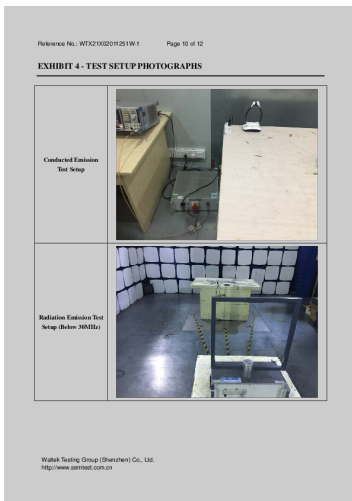
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[\[pdf\]](#) Product Photos Teardown

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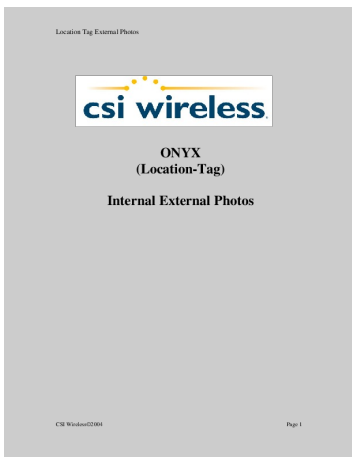
Reference No.: WTX21X02011251W-1 Page 6 of 12 EXHIBIT 3 - EUT INTERNAL PHOTOGRAPHS EUT Housing and Board View 1 EUT Housing and Board View 2 Waltek Testing Group Shenzhen Co., Ltd. <http://www.semtest.com.cn> Reference No.: WTX21X02011251W-1 Page 7 of 12 Solder Board-Component View 1 Solder... lang:de score:18 filesize: 4.27 M page_count: 4 document date: 2021-03-31



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Microsoft Word ANNEX Part 15C Administrator Test setup photos Shenzhen Simolio Electronic Co Ltd SM 824D2 Wireless headphones 2AYV2 2AYV2SM824D2 sm 824d2

Reference No.: WTX21X02011251W-1 Page 10 of 12 EXHIBIT 4 - TEST SETUP PHOTOGRAPHS Conducted Emission Test Setup Radiation Emission Test Setup Below 30MHz Waltek Testing Group Shenzhen Co., Ltd. <http://www.semtest.com.cn> Reference No.: WTX21X02011251W-1 Page 11 of 12 Radiation Emission Te... lang:nl score:17 filesize: 310.17 K page_count: 3 document date: 2021-03-31



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