

3

Phenomena	Causes	Solutions
Headphone	Faulty USB charging cable.	Please change another workable USB charging cable to see if it works.
can not be charged successfully	Faulty Power source.	Please change another power source like PC USB port, socket, different USB charger (5V/500mA-2A).

## LIMITED WARRANTY

12 months limited warranty: The 12 months warranty will cover defects in manufacturing and product failure for a period of 12 months from the original date of purchase. The warranty period is not extended if we repair or replace a warranted product.

This warranty is provided at the discretion of Simolio Ltd. And does not cover cosmetic damage or damage due to acts of nature, accident, misuse, abuse, negligence, commercial use, or modification of or to any part of the product. Accessories such as audio cables, power adapter and perishable items such as ear tips and batteries are not covered under this warranty.

Please contact: support@simolio.com (for NA/AU) or support\_uk@simolio.com (for UK) and provide your Amazon order ID to register the warranty.

## **TECHINICAL SPECIFICATIONS**

Transmission mode	Automatic Frequency-Hopping Spread Spectrum		
Carrier frequency	2.4GHz ISM BAND		
	Transmitter	output: DC 5V, 1A	input : 100~240V
Power Supply		plug of pov	ver cable : 4.0*1.7mm
Power Suppry	Headphone	built-in 50	0mAh Li-ion Battery
		USE	charging cable
Frequency response	20 Hz – 20 KHz		
Distortion	$\leqslant 1\%$		
Signal-to-noise ratio	≥70dB		
Range:	Up to 100 feet (without obstacles)		
Working time	10 hours under wireless hearing mode		
Charging time	3 hours		

# SIMÓLIO

## 2.4GHz Wireless TV Headphones

- Professional Personal Customized TV Hearing Protection System

## **SM-826D**



## **User Manual**

Sales & Support Email: support@simolio.com (for NA/AU) support\_uk@simolio.com (for UK)



Thank you for choosing the SIMOLIO SM-826D Wireless TV Headphone. Please read this guide carefully and keep it in a safe place for future reference. If you need any further assistance, please contact our customer support team at: **support@simolio.com** (NA/AU)

support uk@simolio.com (UK)

Response Time: 2-24h, excl. Holidays

Welcome to subscribe to our **YouTube** channel - "**Simolio Direct**" for more product information.

Safety Instruction	01
Overview	02
Features	02
Product Diagram	03
Package Contents	04
LED Indication	05
How to Use	
1. Check Your TV/Audio Source Output Options before the Set up	05
2. Turn on the Transmitter and Headphone	06
2.1 Power the Transmitter	06
2.2 Turn on the Transmitter	06
2.3 Turn on the Headphone	06
3. Connect the Transmitter to Your TV/Audio Source	07
3.1 Digital Optical Connection	07
3.2 RCA Analog Connection	08
3.3 3.5mm/AUX Analog Connection	10
3.4 Other Connections in Special Cases	11
4. Use Two Sets of SIMOLIO 2.4GHz Wireless TV Headphones	
Simultaneously in the Same House	14
5. Charge the Headphone	14
6. Customizing your SM-826D	15
Troubleshooting	16
Limited Warranty	18
Technical Specifications	18



## SAFETY INSTRUCTIONS

- 1. Please read this instruction manual carefully and completely before using the products. Keep this manual easily accessible at all times.
- 2. Always keep the product dry, and do not expose them to extreme temperatures.
- 3. The receiver must keep the minimum volume before switching the unit on. High volume may cause hearing damage to persons with normal hearing, especially to children.
- 4. Keep devices away from liquid. Before cleaning the product and its accessories, disconnect the transmitter from the power adapter, and use only a slightly damp cloth to clean the devices.
- 5. Use only the supplied power adapter.
- 6. Use the products with care and set them up on a stable surface of a clean, dust-free environment.
- 7. The unit may get hot during use. Ensure the unit has adequate ventilation.
- 8. Please put the product far away from microwave oven, mobile phones, WiFi router etc. to avoid unnecessary electronic wave interference.
- 9. Please switch off the transmitter and receiver after use, and pull out the power adapter from the wall socket when not using for a long time.
- 10. Only qualified person can provide services! Do not attempt to open the unit!

# Pacemaker Safety:

Before using this product with a pacemaker or other medical device, consult your physician or the manufacturer of your pacemaker or other medical device.

## SIMOLIO SM-826D

## **OVERVIEW**

Would you like to watch television with crystal-clear sound that won't disturb others in your family? Do you want to avoid hearing damage that could be caused by wearing normal wireless headphones for a long time? SIMOLIO SM-826D wireless TV hearing protecting headphone is just made for you.

Apply with the latest 2.4GHz Digital Automatic Frequency-Hopping Spread Spectrum (FHSS) technology, it gives you crystal-clear sound with the freedom of a wireless connection - up to 100 feet without obstacles. You can customize your listening at a most comfortable volume level, via tone controls and MONO/STEREO function. Our voice highlighting and noise cancelling technology dynamically reduce TV background sounds and make TV dialogues stand out. At last you can easily understand the TV dialogues at a healthy volume without worrying about your hearing being damaged.

It's compatible with both digital and analog audio output ports and suitable for almost all TVs and the set-top boxes on the market.

## FEATURES

### (1) Hearing Protection Function

Soften the background sounds, make the TV conversations stand out, help people enjoy TV programs in safe voices, protect people's hearing from the progressive hearing damage caused by watching TV for a long time with normal headphones.

## (2) Long Distance Transmission

Supported with the latest technology, you can have wireless freedom and crystal clear voice within a range of up to 100 feet.

## (3) Voice Highlighting Tech

Reduce background voice in TV to highlight the dialogues, so that words hard to hear can easily stand out, making television dialogues to be understood easily.

## (4) Noise Cancelling Tech (NCT)

Reduce the ambient noise to help the users to focus on listening to the dialogues in TV.

## (5) Automatic Signal Control (ASC)

Our special circuit design can adjust the sudden volume change and make the output volume stable. It will avoid strong signal hurting the users' hearing.

## (6) TONE Control

It is specially designed for people who have different sound frequency





sensitiveness. They can select TONE (Treble/Normal/Bass) to find the optimum parameters, and hear the target audio source clearly.

## (7) MONO/STEREO Optional

You can switch to STEREO for enjoying Hi-Fi sound quality music or select MONO for enjoying more clear TV dialogues.

## (8) Good Compatibility

Compatible with any brand of TV/Smart TV box/ Cable TV box/Set-top box/DVD/other audio device that has a Digital Optical, RCA or 3.5mm AUDIO OUT port(s).

## (9) Convenient Charging Methods

The headphone is recharged by the supplied Micro USB cable into a compatible USB charger (transmitter USB port/PC or TV USB port). It is ok to use most mobile phone chargers on market.

## (10) Headphone Designed with Auto Power Off Function for Power Saving

When no signal is received for 10 minutes, the headphone will be powered off automatically.

## (11) Audio Sharing Function

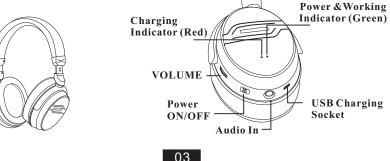
You can have another headphone plug into the sharing port on the right side of the SIMOLIO headphone to share audio with your buddy .

## (12) One Transmitter Can Support Multiple Headphones

Additional SIMOLIO 2.4GHz wireless headphone receivers can be added to the SM-826D system, allowing multiple listeners to enjoy the same audio source.

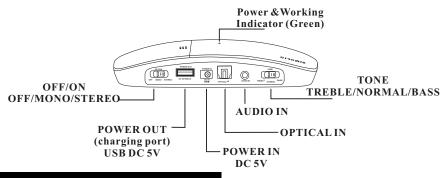
## PRODUCT DIAGRAM

### 1. Receiver



## SIMÓLIO SM-826D

### 2. Transmitter



## PACKAGE CONTENTS

Headphone	Transmitter	Optical Fiber Cable
	in	0
Ø3.5mm- RCA Audio Cable	Ø3.5mm Audio Cable	Micro USB Charging Cable
		(for headphone)
Power Adapter	User Manual	Quick Guide
USA UK	SIMOLIO 2-citit Vincings TV Kasphanes 58-420 Good Control Cont	



## LED INDICATION

#### LED Indicators of the Transmitter

LED Status	Transmitter Status
Green LED flashes slowly	No audio signal in within 5 minutes
Dark green LED lighting steadily	In standby mode (no audio signal in for more than 5 minutes)
Bright green LED lighting steadily	Wireless working mode

### LED Indicators of the Headphone

LED Status	Headphone Status
Green LED flashes slowly	No signal received
Green LED flashes quickly and headphone beeps every minute	Low power indication
Green LED lighting steadily	Wireless working mode
Red LED on	Headphone charging
Red LED off	Headphone charging completed

#### Note:

• The transmitter will automatically enter standby mode within 5 minutes of no signal input, and it will automatically restart when there is an audio signal input.

• The headphone will power off automatically after 10 minutes of no audio signal in. Using it again, you need to slide ON/OFF switch to "OFF" position, then slide to "ON".

## **HOW TO USE**

## 1. Check Your TV/Audio Source Output Options before the Set up

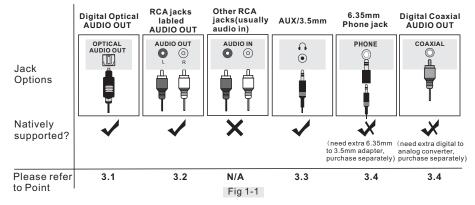
SM-826D is compatible with OPTICAL output, AUX 3.5mm output, and RCA (labeled "AUDIO OUT") (Ref. Fig 1-1)

Note:

• Three different audio cables included: digital optical cable, RCA cable and 3.5mm cable. In the end, only one of these cables is needed to complete the installation.



## SIMÓLIO SM-826D

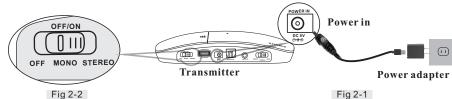


• If your audio source device has an optical audio out port, please connect SIMOLIO to this port preferentially. If not, you can also connect SIMOLIO to the RCA or AUX/3.5mm or other audio out port of the audio source device.

## 2. Turn on the Transmitter and Headphone

### 2.1 Power the Transmitter (Ref. Fig 2-1)

Plug the supplied AC adapter into a standard electrical outlet, plug the other end of the AC adapter into the port labeled "DC 5V" on the back of the transmitter.



**2.2 Turn on the Transmitter** (Ref. Fig 2-2) Slide **OFF/MONO/STEREO** switch to "**MONO**" or "**STEREO**" position.

### 2.3 Turn on the Headphone

Slide ON/OFF switch to "ON" position.

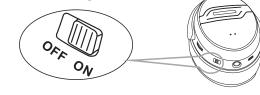


Fig 2-3



### **3**. Connect the Transmitter to Your TV/Audio Source

Set the volume of the audio source to a level sufficient for people with normal hearing to clearly listen to the TV to ensure stable audio output. i.e. set the TV box VOL  $\ge$  30 % (Ref. Fig 3-1) & TV VOL  $\ge$  40% (Ref. Fig 3-2)

For watching TV quietly without disturbing others, the right way is: Mute your TV by pressing the **MUTE** button on the remote control or choose any speaker option other than **TV Speaker** in the **TV Sound Output** settings.(Ref. Fig 3-3)

• The above settings may differ from various TVs.



TV box VOL  $\ge 30$  %

TV VOL  $\geq$  40 %

## 3.1 Digital Optical Connection

This part will instruct you on how to connect the SIMOLIO SM-826D transmitter to your television, satellite, or cable box using an optical digital audio cable.

• If you cannot get to the back of your TV and you only watch the programs through a fixed TV box (cable/satellite box/DVD etc.), you can also use these instructions to install the system to your TV box.

• Be aware that the base should be placed at least 4 feet away from your Router/ smart WiFi TV/TV sticks/WiFi TV box to avoid interference.

## Step 1. Hook up SIMOLIO to the Optical Audio Out Port of the TV/other Audio Device

Remove the protective plastic caps from both ends of the optical digital audio cable.



Fig 3-4

Plug either end of the optical audio cable into the "**Digital Audio Out (Optical**)" port on the back of the TV. Plug the other end of the optical digital audio cable into the port on the back of the transmitter labeled "**OPTICAL IN**".



07

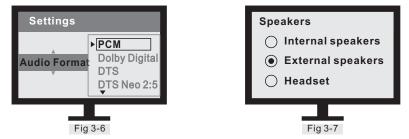


**Step 2. TV Audio Format and Speaker Setting** (use TV remote control) If you can not hear sound from your headphones after connecting:

• Ensure TV Audio Format is set to "PCM" or "Dolby/DTS" is OFF (This is IMPORTANT, Ref. Fig 3-6)

PS: for certain smart Samsung models, the TV is retaining separate settings for regular TV and internet TV setup. When you turn to the Smart Hub for Internet source, please use the TV remote to go to Settings > Sound > Expert Settings > Audio Format or Digital Output Audio Format, then select PCM.

• Ensure your TV speaker is set to "External Speakers". (Ref. Fig 3-7)



**Notes:** If your TV only support single sound out, the TV's speakers will be either automatically muted when you plug something into an audio out port (Optical/AUX/RCA, etc.) or they become disabled once you choose "External Speakers" as your TV's audio output. It depends on TV circuit design.

For most TVs, the TV's internal speakers and an external audio device can work simultaneously. Such as, for some newer LG TVs, when do optical audio connection, you can set the "Sound Out" to "Internal TV Speaker + Audio Out (optical)". And for some newer Samsung TVs, you can enable this feature by selecting "TV Speaker" from the TV Sound Output lists.

\* Setting menu may be different depending on different TV brands and models.

## **3.2 RCAAnalog Connection**

This Part is an alternative to 3.1 on page 7. This part will explain how to connect the SIMOLIO SM-826D transmitter to your television, satellite, or cable box using an RCA analog audio cable.

• If you cannot get to the back of your TV and you only watch the programs through a fixed TV box (cable/satellite box/DVD etc.), you can also use these instructions to install the system to your TV box.

• Be aware that the base should be placed at least 4 feet away from your Router/smart WiFi TV/TV sticks/WiFi TV box to avoid interference.



## Step 1. Hook up SIMOLIO to the RCA Audio Out Port of the TV/other Audio Device

Plug the red and white ends of the audio cable into the analog RCA Audio Out ports (red and white ports labeled "**AUDIO OUT**") on the back of the TV. Plug the single end of the audio cable into the port labeled "**AUDIO IN**" on the back of the transmitter.

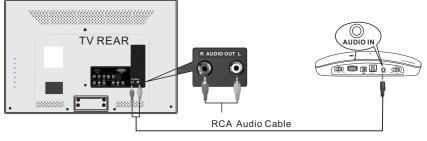


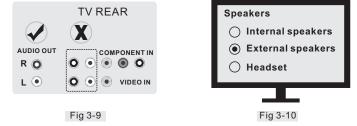
Fig 3-8

**Step 2. TV Audio Out Checking and TV Speaker Setting** (use TV remote control)

If you can not hear sound from your headphones after connecting:

• Ensure use TV Red/White ports labeled "AUDIO OUT" or "OUTPUT", other Red/White ports are incorrect. (Ref. Fig 3-9)

• Ensure your TV speaker is set to "External Speakers". (Ref. Fig 3-10)



• Use the RCA cable to plug the headphone into the RCA output of the TV to test if you can hear the TV sound. (Ref. Fig 3-11)







## SIMOLIO SM-826D

#### Notes:

\* If your TV only support single sound out, the TV's speakers will be either automatically muted when you plug something into an audio out port (Optical/ AUX/RCA, etc.) or they become disabled once you choose "External Speakers" as your TV's audio output. It depends on TV circuit design.

For most TVs, the TV's internal speakers and an external audio device can work simultaneously. Such as, for some newer LG TVs, when do analog RCA audio connection, you can set the "Sound Out" to "Internal TV Speaker + Headphones". And for some newer Samsung TVs, you can enable this feature by selecting "TV Speaker" from the TV Sound Output lists.

\* Your TV's analog audio settings may be set to "Variable" or "Fixed". If you want to be able to control your TV volume level separate from your SIMOLIO SM-826D volume level, you will need to make sure your TV is set to "Fixed". Contact your TV manufacturer for assistance. (Ref. Fig 3-12)

SETTINGS

\*Setting menu may be different depending on different TV brands and models.

## 3.3 3.5mm/AUX Analog Connection

This part is an alternative to 3.1 and 3.2 on page 8-10. This part will explain how to connect the SIMOLIO SM-826D transmitter to your television, satellite, or cable box using a 3.5mm/AUX analog audio cable.

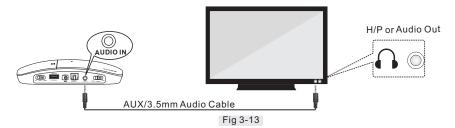
• If you cannot get to the back of your TV and you only watch the programs through a fixed TV box (cable/satellite box/DVD etc.), you can also use these instructions to install the system to your TV box.

• If you connect the 3.5mm audio cable to the 3.5mm Audio Out port which is usually a Headphone port on your TV, your SIMOLIO SM-826D will still function properly, but the sound to your TV internal speakers will be muted. The port is usually labeled with an headphone icon.

• Be aware that the base should be placed at least 4 feet away from your Router/smart WiFi TV/TV sticks/WiFi TV box to avoid interference.

## Step 1. Hook up SIMOLIO to the 3.5mm Audio Out Port of the TV/other Audio Device

Plug one end of the 3.5mm audio cable into the "Audio Out" port on the back of the TV. Plug the other end of the audio cable into the port labeled "AUDIO IN" on the back of the transmitter.



**Step 2. TV Audio Out / TV Speaker Setting** (use TV remote control) If you can not hear sound from your headphones after connecting:

• Ensure your TV speaker is set to "Headset". (Ref. Fig 3-14)

• Use the AUX/3.5mm cable to plug the headphone into the headphone/3.5mm audio output of the TV to test if you can hear the TV sound. (Ref. Fig 3-15)



#### Notes:

\* Your TV's audio settings may be set to "Variable" or "Fixed". We recommend that you set your audio settings to "Fixed" for better audio quality when using this installation option. If you want to be able to control your TV volume level separate from your SIMOLIO SM-826D volume level, you will need to make sure your TV is set to "Fixed". Contact your TV manufacturer for assistance.

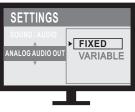


Fig 3-16

\* Setting menu may be different depending on different TV brands and models.

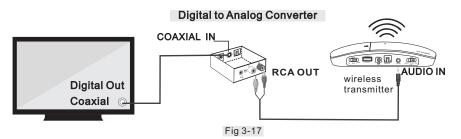
## 3.4 Other Connections in Special Cases

1) TV/Audio Source only has Digital Coaxial Audio Out port

**Step1. Purchase a Digital to Analog Converter and Set up as Shown in Fig 3-17** If your TV/Audio Source only has a digital coaxial audio out port, you will need a digital to analog converter (DAC) for installation.







**Step 2. TV Audio Format and Speaker Setting** (use TV remote control) If you can not hear sound from your headphones after connecting:

• Ensure TV Audio Format is set to "PCM" or "Dolby/DTS" is OFF (This is IMPORTANT, Ref. Fig 3-18)

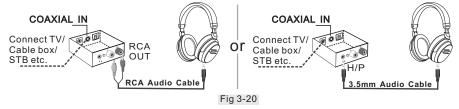
PS: for certain smart Samsung models, the TV is retaining separate settings for regular TV and internet TV setup. When you turn to the Smart Hub for Internet source, please use the TV remote to go to Settings > Sound > Expert Settings > Audio Format or Digital Output Audio Format, then select PCM.

• Ensure your TV speaker is set to "External Speakers". (Ref. Fig 3-19)



• Take turns to test RCA connection and 3.5mm headphone connection.

• Use the AUX/RCA cable to plug the headphone into the headphone or RCA output of the DAC to test if you can hear the TV sound. (Ref. Fig 3-20)

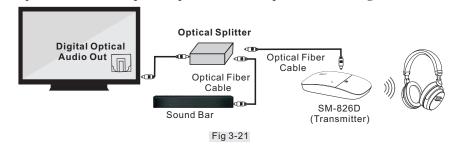


#### Note:

Setting menu may be different depending on different TV brands and models.



2) If your TV/Audio Source's Digital Optical Audio Out port is occupied by soundbar, you will need an optical splitter for installation. Step 1. Purchase an Optical Splitter and Set up as Shown in Fig 3-21



Step 2. If you can not hear sound from your headphones after connecting, follow the part of 3.1 on page 8-9 to check your settings.

## 3) Connect SIMOLIO SM-826D to your AV Receiver with 6.35mm PHONE jack

Step 1. Purchase a 6.35mm to 3.5mm Adapter and Set up as Shown in Fig 3-22 SM-826D is not compatible with ANY RCA(L/R) ports on your AV Receiver, ONLY use the BIG 6.35mm PHONE OUT on front side of your AV Receiver with the 6.35mm to 3.5mm adapter (purchase separately).

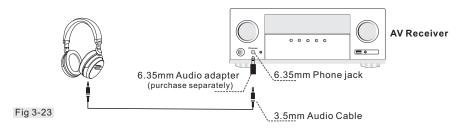


## Step 2. Check the Performance of the AV Receiver's Audio Output as Shown in Fig 3-23

If you can not hear sound from your headphones after connecting:

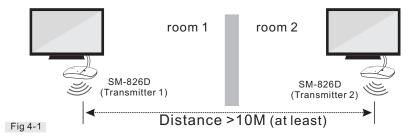
• Use the AUX cable and 6.35 to 3.5mm converter to plug the headphone into the port on AV receiver to check whether the sound is normal.





#### 4. Use Two Sets of SIMOLIO 2.4GHz Wireless TV Headphones Simultaneously in the Same House

• The two sets of SIMOLIO 2.4GHz units should be put at least 10 meters away from each other when using them simultaneously.



• Take the headphone close to the transmitter, then turn on the transmitter and headphone and make sure the green LED indicators are facing towards each other for about 5 seconds.

Note: If two headphones are used on the same TV, only one transmitter needs to be connected, because one transmitter supports multiple headphones to work simultaneously.

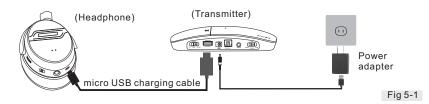


## 5. Charge the Headphone

#### A: Through the USB charging port on the rear of the transmitter base

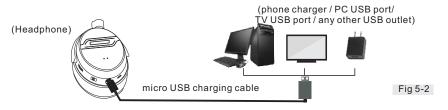
You can use the included micro USB charging cable to connect the headphone to the USB charging port on the rear of the transmitter base for charging.(make sure the transmitter base is powered on)

SIMOLIO SM-826D



### B: Through the universal USB charger/outlet

You can charge your headphone by plugging the micro USB power cable into a phone charger (5V/500mA-2A output), PC USB port, TV USB port or any other USB outlet. You don't need to go back to the transmitter base next to the TV to charge. It takes about 3 hours to fully charge the headphones. The LED will turn RED during charging and turn off once charging is completed.



**Notes:** The charging time is approx. 3 hours. Before using the spare rechargeable battery for the first time, charge it for at least 3 hours. The headphone battery will last around 10 hours on a full charge, but will last a lesser or greater amount of time depending on the average volume level of the headphone.

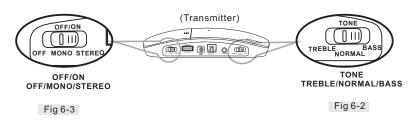
## 6. Customizing your SM-826D

**1) Please make sure the headphones are being worn properly.** Each side of the headphone has a letter to guide the wearer: "L" for left and "R" for right. You can adjust the retractable headband to fit you better.





**2) Tone Control:** Select the TONE (TREBLE/NORMAL/BASS) at the rear of transmitter to find the best feature, make sure you can hear the TV voice clearly.



**3) Mono/Stereo option:** You can switch to STEREO for enjoying Hi-Fi sound quality music or select MONO for enjoying more clear TV dialogues. If, despite a correct balance adjustment, you can hear the sound only with one ear: Set the STEREO/MONO switch on the transmitter to MONO. (Ref. Fig 6-3)

## TROUBLESHOOTING

Part 1

Phenomena	Causes	Solutions
	The transmitter is not powered on.	Switch to MONO or STEREO to power the transmitter on.
	The transmitter is not connected well.	Make sure the AC adapter and the audio cable of the transmitter are plugged in place.
Headphone doesn't work, or no voice received	The analog audio cable is plugged into the <b>AUDIO IN</b> jack of the transmitter when connecting with the optical cable.	Unplug the analog audio cable from the transmitter.
	The connection between the transmitter and the audio source is wrong.	Make sure the connection is correct and in place between the transmitter and the audio source.
	The audio sources (TV and TV related AV devices) are not turned on or their volume are set too low.	Turn on the audio source, and adjust its volume to a sufficient level.
	TV audio output is disabled or not activated.	Follow the instructions in your TV user manual to change the TV's AUDIO OUT setting to "External TV Speakers".
	The audio out format of <b>TV</b> and <b>TV related AV devices</b> (e.g., <b>Cable box,STB, DirecTV, etc.</b> ) is not set to <b>PCM</b> .	Set it to <b>PCM</b> . For example: <b>Settings</b> > <b>Sound &gt; Digital Audio Out Format&gt;</b> <b>Dolby/DTS/PCM</b> , menu depends on TVs.



Causes

Phenomena

#### The headphone is powered off Switch the headphone off, then on. automatically. The audio out port of the Connect to another audio out port. connected audio device is defective (no signal out). Adjust the TV volume to a sufficient level. If you want to mute the TV, please click **Headphone** TV volume is turned down to the MUTE key on the TV remote control doesn't ZERO. or go to TV settings to OFF the Internal work, or TV speaker. no voice received The headphone is out of the Move the headphone closer to the transmitting range. transmitter. The audio source's volume is set Adjust its volume properly. too low. The battery's power is too low. Charge the battery fully. The transmitter is placed too close Put the transmitter far away from the to metalworks or other Sound cuts interference sources. electromagnetic wave objects. in and out or The connection between the Make sure the connection is **firm** between some noise transmitter and the audio source the transmitter and the audio source. is occurred isnot in place. The audio out function of the connected audio device is Connect to another audio out port. defective(poor signal out). The headphone is used for listening Place the transmitter base at least 4 feet to streaming media (Netflix, away from smart WiFi TV/WiFi TV box/ Amazon Prime Video etc). TV sticks to avoid interference. If you are using RCA connection, Try to wiggle the audio cable or unplug the RCA audio cable connecting and plug the audio cable from both the the transmitter and your TV/audio ends on TV/audio source and the source is NOT FULLY plugged at The voice transmitter. BOTH ends. is heard onlywith The audio out signal of audio one ear Switch the transmitter to MONO. source is mono, but the transmitter is switched to STEREO. Try another audio cable or another audio Faulty cable/audio out port issue device.

Part 2

Solutions