

SIMOLIO

2.4GHz Digital Wireless TV Speaker with Optical & Analog Audio Input



User Manual

SM-621D



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Thank you for choosing the SIMOLIO SM-621D Wireless TV Speakers. 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 (US/CA/AU)

support_uk@simolio.com (UK)

Response Time: 2-24h, excl. Holidays

www.simolio.com www.amazon.com/simolio

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IMPORTANT SAFETY INSTRUCTION

1. Please read this instruction manual carefully and completely before using the products. Keep this manual easily accessible at all times.
2. Please remove the battery to avoid battery swelling when the speaker is directly powered by the mains adapter. Store the battery in a cool, dry, well-ventilated place. Fully charge the battery every 3 months if the battery is not used.
3. Always keep the product dry, and do not expose them to extreme temperatures.
4. The speaker must keep the minimum volume before switching the unit on to avoid hearing damage.
5. Keep devices away from liquid. Please use a slightly damp cloth to clean the devices.
6. Use only the supplied power adapter.
7. Use the products with care and set them up on a stable surface of a clean, dust-free environment.
8. The unit may get hot during use. Ensure the unit has adequate ventilation.
9. Please put the product far away from microwave oven, mobile phones, WiFi router etc. to avoid unnecessary electronic wave interference.
10. 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.
11. 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.

OVERVIEW

No lip-sync delay, no need to be upset and insulated by heavy headphones, no need to turn up TV voice loudly that may disturb your family. Simolio 2.4GHz Digital Wireless TV Speaker adopts the latest advanced **Frequency Hopping Spread Spectrum (FHSS)** tech, with strong anti-interference ability. It can bring the clear and crisp TV voice at your side, volume range can meet any hearing requirement, creating a comfortable individual listening environment, providing you more freedom to enjoy programs from TV or other audio devices wherever in the room or outdoors. You can even **mute** your TV, you will never worry about disturbing others in your family anymore.

The big dial knob with **power ON/OFF** and **volume control** in the center area of the receiver, makes you turn the volume up, down or power off by your fingertips easily.

Rechargeable and portable wireless speaker with handle, convenient to take anywhere.

Big size appearance & acoustic chamber with **powerful loudspeakers (2×5W)**.

FEATURES

1. Compatible with both digital optical and analog RCA/3.5mm audio output ports and suitable for almost all TVs and TV boxes on the market.
2. With the **AUDIO OUT jack** at the rear of receiver for connecting to a headset, you can turn an ordinary headset into a wireless TV headset with the volume control by the speaker's big knob. With the special lightweight stethoscope headset we supplied, you can get more comfortable and private listening by muting TV.
3. With the **AUDIO IN jack** at the rear of receiver for connecting to an audio device like PC, MP3, Mobile Phone, iPad, etc., you can turn this receiver into a wired speaker.
4. **Voice Highlighting Tech**: our circuit will reduce background voice of TV, increase the dialogues, so that hard to hear words can easily stand out, making television dialogues easier to understand.

5. **Automatic Signal Control(ASC)**: our circuit will adjust the sudden change volume and make the output volume stable. It will avoid strong signal hurting the users' listening.
6. Three levels of **TONE control** 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. Supported with the latest 2.4GHz Digital Automatic Frequency Hopping Spread Spectrum (FHSS) tech, you can have wireless freedom and crystal clear voice within a range of up to 100 feet.
8. The receiver will work continuously for 5-6 hours with the replaceable & rechargeable Li-battery.
9. **Two power adapters** available: one for the transmitter power supply, another for the speaker power and charge supply which is plugged in the wall outlet, no need taking the speaker back onto the charging cradle to charge
10. The speaker will enter standby automatically after 10 minutes without signal.
11. Built-in special circuit with **short-circuit protection** in the base for safety.
12. **Memory foam ear tips**: the stethoscope headset is installed with super-soft memory foam ear tips which can reduce earphone irritation and fatigue but not durable. We suggest to replace them every 30~60 days.

PRODUCT DIAGRAM



Receiver
Back

Transmitter

PACKAGE CONTENTS

Receiver & Transmitter 	Headset 	Ø3.5mm audio cable RCA audio cable 	Optical fiber cable
Power adaptors USA (two adaptors) or UK (two adaptors)	Manual 	Quick guide 	

LED INDICATION

LED Indicator of Transmitter

LED Status	Transmitter Status
Bright green LED lighting steadily	Working or Charging for speaker
Dark green LED lighting steadily	Standby
Green LED blinking slowly	No audio signal input or signal is too weak

LED Indicator of Receiver

LED Status	Receiver Status
Green LED lighting steadily	Working
Green LED blinking slowly	No audio in, transmitter is in standby or turned off
Red & Green LED lighting alternately	Low power indication at wireless working status
Red LED blinking	Low power indication at wired working status
Red LED lighting steadily	Charging by transmitter base
	Charging by power adaptor
Red LED off	Charging full

HOW TO USE

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

SM-621D is compatible with OPTICAL output, RCA (labeled "AUDIO OUT") and AUX 3.5mm output.

	Digital Optical AUDIO OUT	RCA jacks labeled AUDIO OUT	Other RCA jacks (usually audio in)	AUX/3.5mm	6.35mm Phone jack	Digital Coaxial AUDIO OUT
Jack Options						
Natively supported?	✓	✓	✗	✓	✗	✗
					(need extra 6.35mm to 3.5mm adapter, purchase separately)	(need extra digital to analog converter, purchase separately)
Please refer to Point	3.1	3.2	N/A	3.3	3.4	3.4

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.
- 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 Receiver**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 9V” on the back of the transmitter.

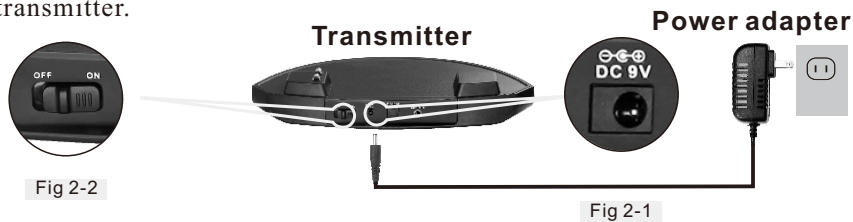


Fig 2-2

Fig 2-1

2.2 Turn on the Transmitter (Ref. Fig 2-2)

Slide OFF/ON switch to “ON” position.

2.3 Power the Receiver

Two ways to power the receiver:

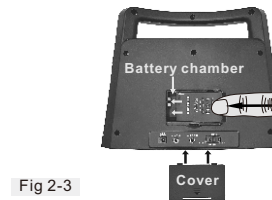


Fig 2-3



Fig 2-4

1) Load the Li-battery into the battery chamber of the receiver with correct polarity and cover the battery case. (Ref. Fig 2-3)

Note: please charge the battery for 3 hours before the first use.

2) Use the additional power adapter to power the receiver. (Ref. Fig 2-4)

Note: please fully charge the battery every three months if battery is not used.

2.4 Turn on the Receiver

Rotate the big Volume knob clockwise until you hear a short "click".

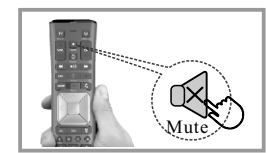
3. Connect the Transmitter to Your TV/Audio Source

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 30% (Ref. Fig 3-1) & TV VOL 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 30%
Fig 3-1TV VOL 40%
Fig 3-2Mute
Fig 3-3**3.1 Digital Optical Connection**

This part will instruct you on how to connect the SIMOLIO SM-621D

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



Fig 3-4

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

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**”.



Fig 3-5

Step 2. TV Audio Format and TV Speaker Setting (use TV remote control)

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

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

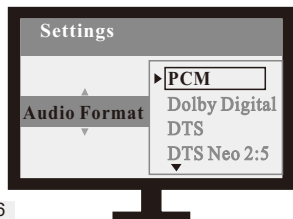


Fig 3-6

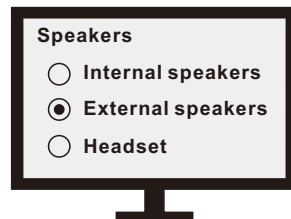


Fig 3-7

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)

Note:

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 RCA Analog Connection

This Part is an alternative to 3.1 on page 8. This part will explain how to connect the SIMOLIO SM-621D 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.

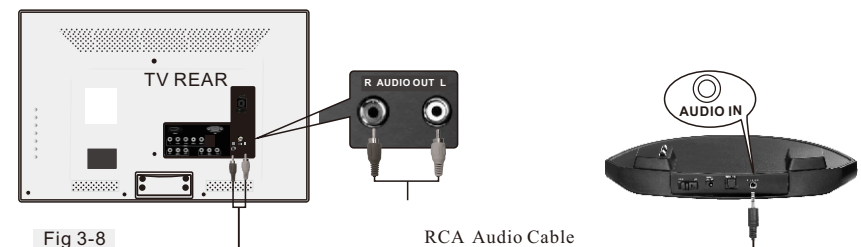


Fig 3-8

RCA Audio Cable

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

If you can not hear sound from your speaker 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)

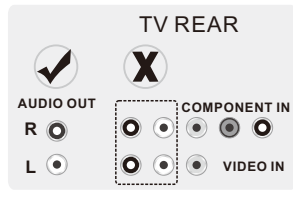


Fig 3-9

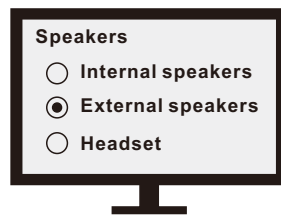


Fig 3-10

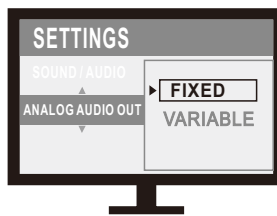


Fig 3-11

Note:

* 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-621D volume level, you will need to make sure your TV is set to “Fixed”.

Contact your TV manufacturer for assistance. (Ref. Fig 3-11)

*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-621D 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-621D will still function properly, but the sound to your TV internal speakers will be muted. The port is usually labeled with a 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.

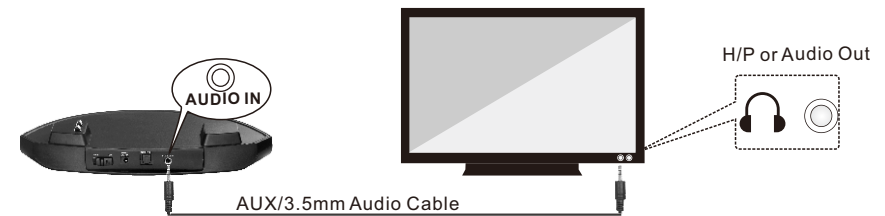


Fig 3-12

Step 2. TV Audio Out / TV Speaker Setting (use TV remote control)

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

- Ensure your TV speaker is set to “Headset”. (Ref. Fig 3-13)
- Plug a wired headphone/earphone into the 3.5mm audio out port of the TV to test if you can hear the TV sound. (Ref. Fig 3-14)

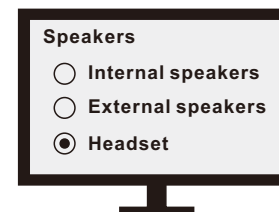


Fig 3-13

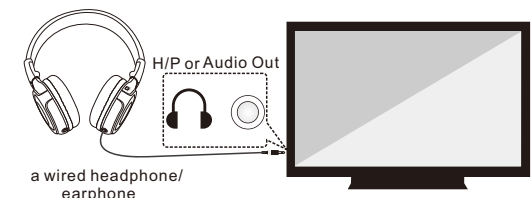


Fig 3-14

Note:

* 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-621D volume level, you will need to make sure your TV is set to "Fixed". Contact your TV manufacturer for assistance.

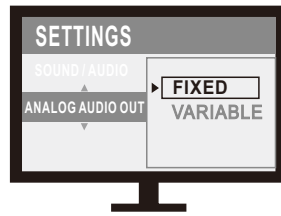


Fig 3-15

* 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****Step 1. Purchase a Digital to Analog Converter and Set up as Shown in Fig 3-16**

If your TV/Audio Source only has a digital coaxial audio out port, you will need a digital to analog converter (SM-DAC01 Purchase separately) for installation.

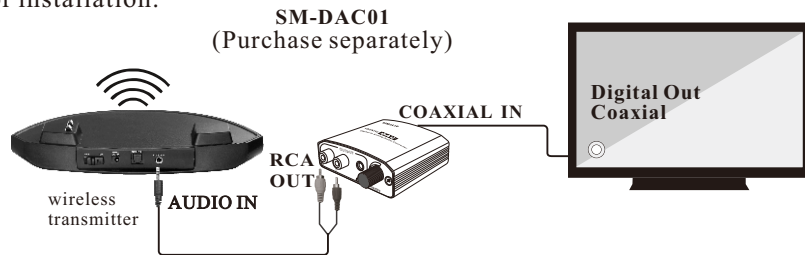


Fig 3-16

Step 2. TV Audio Format and TV Speaker Setting (use TV remote control)

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

- Ensure TV Audio Format is set to "PCM" or "Dolby/DTS" is OFF (This is IMPORTANT, Ref. Fig 3-17)

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 3-18)

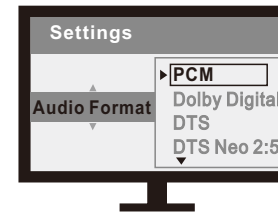


Fig 3-17

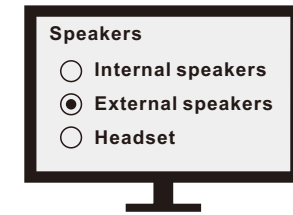


Fig 3-18

- Take turns to test RCA connection and 3.5mm /AUX connection.
- Use a wired headphone/earphone to plug into the headset port or RCA output of the SM-DAC01 (Purchase separately) to test if you can hear the TV sound. (Ref. Fig 3-19)

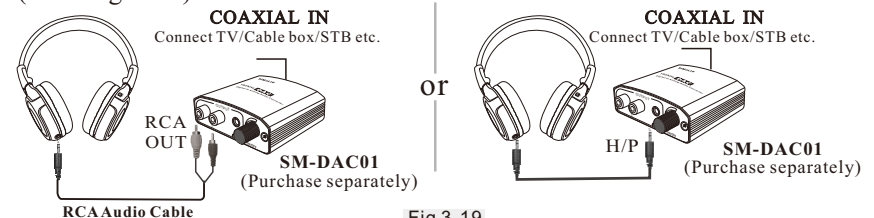


Fig 3-19

Note:

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

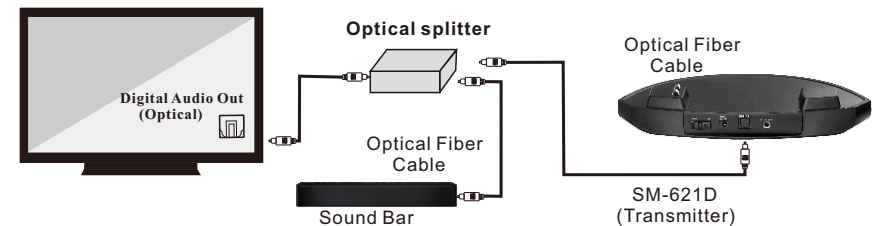
2) If your TV/Audio Source's Digital Optical Audio Out port is occupied by soundbar, you will need an optical splitter for installation.**Step 1. Purchase an Optical Splitter and Set up as Shown in Fig 3-20**

Fig 3-20

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

3) Use SIMOLIO SM-621D 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 3-21

SM-621D 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).

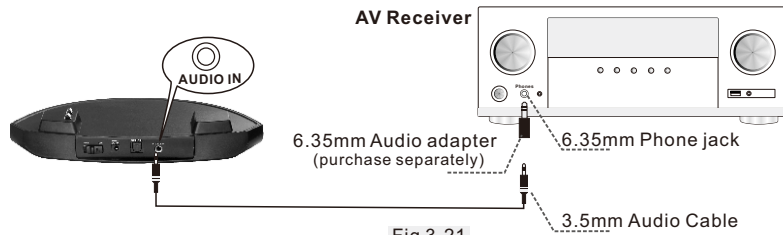


Fig 3-21

Step 2. Check the Performance of the AV Receiver's Audio Output as Shown in Fig 3-22

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

- Use the 6.35 to 3.5mm converter to plug a wired headphone/earphone into the port on AV receiver to check whether the sound is normal.

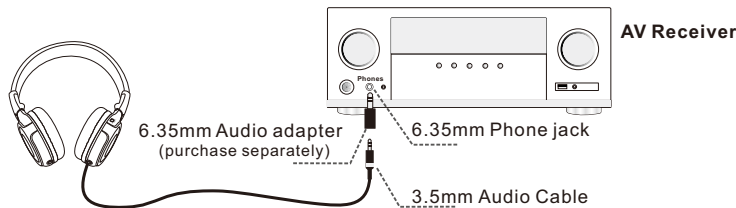


Fig 3-22

4. TONE Adjustment

Turn on the receiver and set the **VOLUME** to your required level. Select **TONE (Treble / Normal / Bass)** to hear more clearly. Select **Treble** to enhance female voice and child's voice, select **Bass** to enhance male voice.

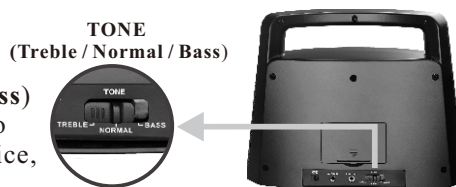


Fig 4-1

5. Use Two Sets of SIMOLIO 2.4GHz Wireless TV Speakers Simultaneously in the Same House

- The two sets of SIMOLIO SM-621D should be put at least 10 meters away from each other when using them simultaneously.



Fig 5-1

- Put the speaker on the transmitter base, then turn on the transmitter and the speaker, wait for a while until you hear sound from the speaker, then you can take the speaker away to listen.

Note:

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



Fig 5-2

6. Other Uses

6.1 How to Use the Stethoscope Headset with the Speaker

Follow the transmitter connection as part 3 on page 8~11, connect the stethoscope headset or your own headset to the **AUDIO OUT** jack at the rear of the speaker, you can turn an ordinary headset into a wireless TV headset to enjoy TV without the speaker voice disturbing your family. If you want to watch TV quietly alone, you can click **MUTE** key at your TV remote controller to OFF the TV internal speakers.

Note:

please turn the dial knob at the speaker for headset's volume adjustment.

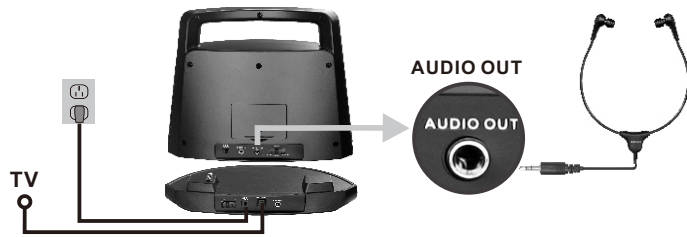


Fig 6-1

6.2 How to Use the Receiver as a Wired Speaker

With the **AUDIO IN** jack at the rear of the receiver for connecting to an audio device like PC, MP3, Mobile Phone, iPad, etc, you can turn this receiver into a wired speaker.

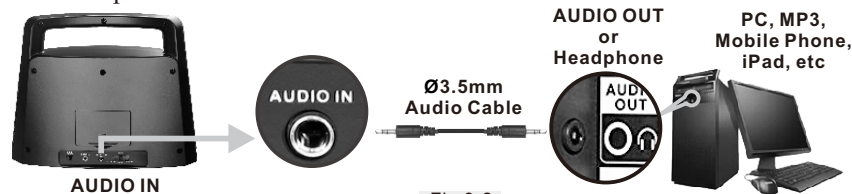


Fig 6-2

7. Charge the Speaker

A: Through the Transmitter Base

- 1) Connect the **original power adapter** with the transmitter and an electrical outlet, slide the OFF/ON switch to ON to power on the transmitter.
- 2) Put the the speaker on the transmitter in correct direction. The red charging indicator on the speaker lights up and the speaker starts charging.

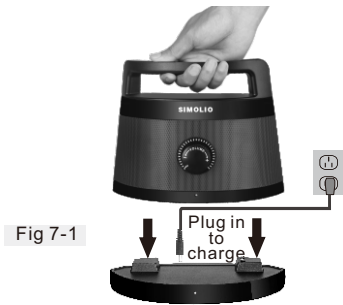


Fig 7-1

B: Through the Supplied AC Adapter

Plug the supplied AC adapter into a standard electrical outlet, plug the other end of the AC adapter into the port labeled "DC 9V" on the back of the speaker.



Fig 7-2

Note:

The charging time is approx. 3 hours. The speaker will last approx 5-6 hours on a full charge, but will last a lesser or greater amount of time depending on the average volume level of the speaker.

TROUBLE SHOOTING

Part 1

PHENOMENA	CAUSES	SOLUTIONS
Speaker receiver doesn't work, no sound when used as a wireless speaker.	The transmitter is not connected well.	Make sure the AC adapter and the audio cable of the transmitter are plugged well.
	The analog audio cable is plugged into the AUDIO IN jack of the transmitter when connecting with the optical cable.	Unplug the analog audio cable from the transmitter.
	TV volume is turned down to ZERO .	Adjust the TV volume to a sufficient level. If you want to mute the TV, please click the MUTE key on the TV remote control or go to TV settings to OFF the Internal TV speaker.
	Connection between the transmitter and 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 sources, and adjust their volume to a sufficient level.
	TV audio output is disable or not activated.	Follow the TV manual to change the TV's AUDIO OUT setting to "External TV Speaker".
	The TV and TV related AV device's digital audio out format is not set to PCM when do optical connection.	Set it to PCM . For example: Settings > Sound > Digital Audio Out Format > Dolby/DTS/PCM , select PCM . Menu depends on TVs.
	The battery is not properly loaded in the battery chamber, the battery is run out or the adapter is not connected firmly.	Properly load the battery, fully charge the battery, or firmly connect the adapter.

Part 2

PHENOMENA	CAUSES	SOLUTIONS
Speaker receiver doesn't work, no sound when used as a wireless speaker.	The receiver is powered off automatically.	Check the big knob of power on/off status, turn off the receiver and then restart.
	There is headset or audio cable plugged into the AUDIO OUT port of the speaker.	Check the back of the speaker receiver and disconnect the audio cable or headset from the receiver.
	The audio out port of the connected audio device is defective (no signal out).	Connect to another audio source to have a test.
Poor sound or sound cuts in and out when used as a wireless speaker.	The audio source's volume is set too low.	Adjust its volume properly.
	The speaker is used for listening to streaming media (Netflix, Amazon Prime Video etc).	Place the transmitter base at least 4 feet away from smart WiFi TV/WiFi TV box/TV sticks to avoid interference.
	The battery's power is too low.	Charge the battery fully.
	The transmitter is placed too close to metalworks or other electromagnetic wave objects.	Put the transmitter far away from the interference sources.
	The connection between the transmitter and the audio source is not in place .	Make sure the connection is firm between the transmitter and the audio source.
No sound or poor sound from the headset when used as a wireless headset.	The headset's plug isn't firmly inserted into the AUDIO OUT jack of the speaker.	Make sure to insert the headset's plug firmly into the AUDIO OUT jack of the speaker..
	The speaker is not turned on or the volume is too low.	Make sure the speaker is turned on by the big knob, volume set to a sufficient level.
Can not hear sound from the receiver when used as a wired speaker.	The audio cable is not plugged well into the receiver's AUDIO IN jack or the audio source's Audio Out jack	Make sure the connection is firmly and in place.
	The headset's plug is still inserted in the AUDIO OUT jack of the receiver.	Disconnect the headset from the receiver.

Part 3

PHENOMENA	CAUSES	SOLUTIONS
Receiver can not be charged successfully	The transmitter is not switched on.	Switch on the transmitter when charging for the receiver.
	The receiver is not placed on to the transmitter charging cradle firmly .	Firmly place the receiver on to the transmitter charging cradle.
	The battery is not loaded to the battery chamber correctly.	Load the battery to the battery chamber according to the polarity correctly.
	The receiver is not connected with the adapter properly.	Firmly connect the receiver with the adapter when charging alone.
Mutual interference when use two sets at the same time	The distance between the two sets is too close.	The two units should be put at least 10 meters away from each other.
		Put the speaker on the transmitter base, then turn on the transmitter and the speaker, wait for a while until you hear sound out from the speaker, then you can take the speaker away to listen.

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 stethoscope headset, AC adapter, ear tips and batteries are not covered under this warranty.

Please contact:
support@simolio.com (for US/CA/AU) or
support_uk@simolio.com (for UK)
for any questions or service support.
www.simolio.com
www.amazon.com/simolio

TECHNICAL SPECIFICATION

Transmission mode	Automatic Frequency Hopping Spread Spectrum	
Carrier frequency	2.4GHz ISM BAND	
Dual speakers	2*5 Watt, 6 Ohm	
Operating voltage	Transmitter	9V / 1.5A, 110/240V power adapter with a DC 4.0X1.7mm barrel jack
	Receiver	7.4V/1000mAh Li-Battery
		9V / 1.5A, 110/240V power adapter with a DC 4.0X1.7mm barrel jack
Frequency response	20 Hz – 20 KHz	
Distortion	1%	
Signal-to-noise ratio	70dB	
Range	Up to 100 Feet (without obstacles)	
Working time	5-6 hours	
Charging time	3 hours	