

Read me before using WSHT-280

User Guide
Avantree WSHT-280

Wireless Headphone System
with Transmitter/Charging Dock

FCC ID:2AITF-WSHT-280

What's in the box

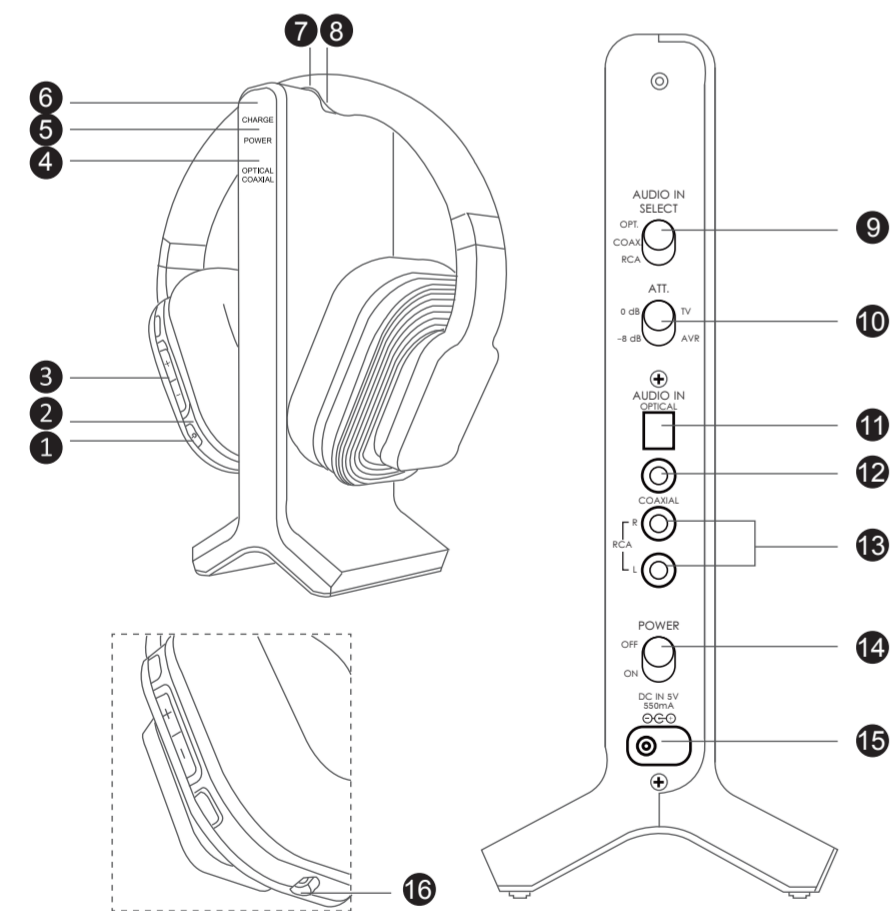
- 1 Headphone with transmitter/charging dock
- 2 AUX/3.5mm audio cable
- 3 RCA audio cable
- 4 Optical audio cable
- 5 AUX/3.5mm to RCA audio cable
- 6 AC adapter
- 7 6.35mm to 3.5mm audio adapter
- 8 Quick user guide
- 9 Contact card

10 2 x 1.2V NiMH rechargeable batteries (installed in headphones)

Warning!

These headphones can only use 2 x 1.2V NiMH rechargeable batteries. Otherwise, it may cause explosion or fire.

Product overview



- 1. Power ON/OFF
- 2. Power Indicator
- 3. Volume Control
- 4. Optical/Coaxial Indicator
- 5. Power Indicator
- 6. Charge Indicator
- 7. Contact Pins
- 8. Contact Points
- 9. Audio In Select Switch
- 10. Attenuation (ATT.) Switch
- 11. Optical Audio Input
- 12. Coaxial Audio Input
- 13. RCA Audio Input
- 14. Power ON/OFF Switch
- 15. DC IN
- 16. AUX/3.5MM Headphone Jack

Set up

1 Check your TV/Audio Source output options

Jack Options	Optical OUT	AUX/3.5mm	RCA jacks labeled "AUDIO OUT"	Other RCA jacks (usually audio IN)	Big Phone Jack
Natively Supported?	✓	✓	✓	✗	✓
Please refer to Point:	4.1	4.2	4.3	N/A	4.4

Fig 1-1 Output options

2 Power up the transmitter/charging dock

Connect the transmitter/charging dock to a compatible power source using AC adapter. Slide ON/OFF switch to "ON" position, POWER LED indicator lights up BLUE.

3 Charge and turn on the headphone

Charge headphone for 6 hours prior to the initial use: Place the headphone on transmitter/charging dock, the charging begins automatically, the CHARGE LED on the transmitter/charging dock lights up YELLOW-GREEN. When the charging is complete, the CHARGE LED on the transmitter/charging dock will turn off.

Turn on the headphone: Press and hold for 1 second, LED indicator close to stay SOLID RED for 1-2 seconds, then the headphone will auto connect to the transmitter, LED indicator turn SOLID YELLOW-GREEN.

3 Charge the headphone

Fig 3-1 Charge the headphone

4 Connect the transmitter to your TV/audio source

4.1. Optical Audio Out

Fig 4-1 Set up the transmitter using optical audio out

Now, you should be able to hear sound from headphone, if no sound:

- Ensure the Audio In Select Switch on transmitter is set to "OPT." position (This is IMPORTANT).
- Ensure your TV Speaker is set to "External Speaker".
- Ensure TV Audio Format is set to "PCM" or "DOLBY/DTS" is off (This is IMPORTANT).

4.2. AUX/3.5MM Audio Out

Fig 4-2 Set TV speaker to "External Speaker"

Fig 4-3 Set TV audio format to "PCM" (IMPORTANT)

4.3. RCA Audio Out (Red/White ports labeled "AUDIO OUT")

Fig 4-6 Set up the transmitter using RCA audio out

Now, you should be able to hear sound from headphone, if no sound:

- Ensure the Audio In Select Switch on transmitter is set to "RCA" position (This is IMPORTANT).
- Ensure use TV Red/White ports labeled "AUDIO OUT", other Red/White ports are incorrect (This is IMPORTANT).
- Ensure your TV Speaker is set to "External Speaker".

4.4. Receiver with 6.35mm Phone Jack at Front

Fig 4-9 Set up the transmitter using 6.35mm phone jack

Now, you should be able to hear sound from headphone, if no sound:

- Ensure the Audio In Select Switch on transmitter is set to "RCA" position (This is IMPORTANT).

4.5. Headset

Fig 4-5 Set TV speaker to "Headset"

4.3. RCA Audio Out (Red/White ports labeled "AUDIO OUT")

Fig 4-6 Set up the transmitter using RCA audio out

Now, you should be able to hear sound from headphone, if no sound:

- Ensure the Audio In Select Switch on transmitter is set to "RCA" position (This is IMPORTANT).
- Ensure use TV Red/White ports labeled "AUDIO OUT", other Red/White ports are incorrect (This is IMPORTANT).
- Ensure your TV Speaker is set to "External Speaker".

4.4. Receiver with 6.35mm Phone Jack at Front

Fig 4-9 Set up the transmitter using 6.35mm phone jack

Now, you should be able to hear sound from headphone, if no sound:

- Ensure the Audio In Select Switch on transmitter is set to "RCA" position (This is IMPORTANT).

4.5. Headset

Fig 4-5 Set TV speaker to "Headset"

4.6. Headset

Fig 4-5 Set TV speaker to "Headset"

4.7. Headset

Fig 4-5 Set TV speaker to "Headset"

Replacing battery

If battery need replacing, ONLY replace with 2 X 1.2V NiMH rechargeable batteries.

1 Open battery compartment: Rotate right ear pad counterclockwise to direction

2 Insert battery with the right polarity

3 Restore ear pad: Rotate right ear pad clockwise to direction

Better reception

HT280 work range reaches up to 100 feet, it may varies due to the environment.

- If your headphone are picking up noise or interference, move closer to the transmitter.
- Even within the work range, there may be some "dead spots" where the RF signal cannot be received. This issue is inherent with RF signals and does not indicate a faulty product. Just slightly move the transmitter and the "dead spot" can be corrected.

If no signal or low signal for 5 minutes

- When there is no signal for 5 minutes, the transmitter will automatically power off and the transmitter POWER indicator will turn off. The transmitter will restart once the signal resumes, POWER indicator will turn BLUE.
- If the signal input from your source is too low for 5 minutes, the transmitter may also turn off. In this case, raise the volume of the audio source to a higher level but without distortion. You may then need to lower the volume on your headphone.
- If signal noise is output from your audio source, the transmitter may not turn off even though there is no audio signal.

LED indication of the transmitter/charging dock

LED indicator	Work status	LEDs status
CHARGE	Recharge headphone	SOLID YELLOW-GREEN
	Recharge of headphone complete	Turn off
POWER	Power on	Flashes BLUE for 4-5 seconds, then stay SOLID BLUE
	Power off	Turn off
OPTICAL / COAXIAL	Use optical or coaxial input and audio signal is detected	Stay SOLID RED
	Use optical or coaxial input but NO audio signal is detected after 5 minutes	Flashes RED

LED indication of the headphone

Work status	LED status
Power on	LED close to stay SOLID RED for 1-2 seconds
Connected	LED close to turn SOLID YELLOW-GREEN

Troubleshooting

1. No sound/low sound

1) Transmitter and Headphones are not connected properly

Turn off and on both headphones and transmitter, they should auto connect to each other, once connected successfully, LED indicator close to on headphone will turn YELLOW-GREEN.

2) No audio signal into the transmitter

If connected using optical port:

- Ensure your TV audio format is set to "PCM" or "DOLBY/DTS" is off.
- Change your TV audio out setting to "External Speaker".

If connected using AUX/3.5mm audio out:

Plug your wired headphone directly to the port, check if the sound is normal. If no sound, ensure change your TV audio out setting to "Headset".

If connected using the RCA ports:

Plug your wired headphone to the RCA ports with RCA audio cable, check if the sound is normal. If no sound:

- Ensure use the Red/White ports labeled "AUDIO OUT". Other RCA ports are usually AUDIO IN and incorrect;
- Change your TV audio out setting to "External Speaker".

3) Transmitter Audio In Select Switch setting is not correct

Slide the Audio In Select Switch on transmitter to correct position:

- If using optical port, slide it to "OPT."
- If using RCA port, slide it to "RCA".
- If using coaxial port, slide it to "COAX."

4) Headphone volume is too low

Short press "+" on headphone to raise volume, when it reaches maximum you will hear "beep".

2. Distorted or intermittent sound

- Headphone battery is low, charge the headphone.
- Headphone are too far from the transmitter. Move closer to the transmitter or change position of the transmitter.
- Do not place the transmitter on a metallic table.
- Volume on your audio source is too low or too high.

3. Cannot charge the headphone

- Place the headphone on the transmitter/charging dock correctly so that the CHARGE indicator lights up YELLOW-GREEN.
- The transmitter/charging dock contact pins and/or the headphone's contact points need cleaning. Clean them with a dry cotton swab.
- Check that the AC adapter is connected properly to the transmitter.

WARNINGS / CAUTIONS

- Permanent hearing loss may result from long-term exposure to sound at high volumes.
- This product contains small parts which may be a choking hazard. Not suitable for children under age 3.
- To reduce the risk of fire or electrical shock, do NOT expose this product to rain, liquids or moisture.
- Do NOT make unauthorized alterations to this product.
- Do NOT expose products containing batteries to excessive heat (e.g. direct sunlight, fire, etc.).
- Do not leave a fully charged battery connected to a charger; overcharging may shorten its life.

Declaration of Conformity CE: The product is in conformity with the essential requirements of Article 3.1 (a), 3.2 of Directive 2014/53/EU and the essential requirements of Directive 2014/30/EU.

This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. NOTE: 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.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance between 20cm the radiator your body. Use only the supplied antenna.

Any questions? Contact:

Support@avantree.com
(Response Time: 1 working day)

Self-service Support:

- More FAQs on support.avantree.com
- 100+ Step by step video Guide - youtube.com/avantree/playlists

Telephone Support (Mon-Fri):

- USA / CANADA +1 800 232 2078 (EN, PST 9am-5pm)
- EU / Asia telephone No. refer to http://www.avantree.com/contact-us

Dispose of the packaging and this product in accordance with the latest provisions.

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