



**Wire-to-Air
AM8112**

User Manual



www.audiomate.com.au

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Product Description

The Audiomate Digital Audio Adapter (AM8112) converts audio entertainment into a wireless unit. This enables the freedom to move without the limitations of a cord, whilst still receiving high fidelity, stereo sound for up to 30 metres. Perfect for in-home use with stereo systems as well as mobile devices and all devices using a 3.5mm earphone jack. Simply plug the transmitter into any audio device and sync it to the receiver, connect your earphones or headphones and enjoy wireless audio with crystal-clear digital sound quality.

Product Features

- 2.4GHz digital FHSS technology for advanced interference resistance and smooth audio streaming
- Super high S/N and 20~20kHz full range hi-fi stereo sound quality
- Extremely simple plug-and-play design; no installation required
- Compatible with any earphones and active speakers
- 360° Omnidirectional transmission and reception for free roaming of up to 30 metre radius
- Compact, slim, stylish design for comfortable use and portability
- Dual uses of wireless headphone and wireless headset for stereo
- Auto channel tracking
- Auto mute when no audio input
- Built-in Li-ion rechargeable battery and charger for both transmitter and receiver
- Streams music from any device containing a 3.5mm headphone jack
- Dual input: USB digital in / analogue audio in

Inside the Box

- 1 x AM811T dual audio input adapter
- 1 x AM812R portable audio receiver
- 1 x Male USB to mini USB cable
- 1 x User Manual

Safety

Always observe safety precautions!

The following safety precautions provide important information intended to prevent personal injury to the user and others, and damage to property.

IMPORTANT!

- Never try to disassemble, repair or modify the unit!
- Use only the supplied AC adapter that comes with the unit. Use of another adapter can cause the battery to overheat, combust or explode.

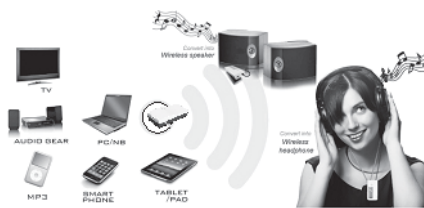
Battery Precautions

Mishandling of the battery pack creates the risk of fluid leakage, overheating, explosion and combustion creating the risk of fire and personal injury.

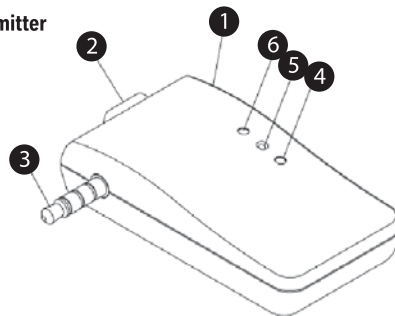
- Never short the positive (+) and negative (-) terminals of a battery
- Use only the prescribed method to charge batteries; never try to use any other charging method
- Never throw batteries into the fire or subject them to heat
- Never pierce batteries or subject them to shock
- Never try to disassemble or modify batteries
- Do not subject the exterior pack to strong impact - this can cause serious damage
- Do not wipe metal parts with a wet cloth
- Do not allow batteries to become wet; never touch them with wet hands
- Use only the specified battery pack; never try to use any other type of battery pack
- If a battery is leaking, do not touch the liquid with your hands
- Battery fluid getting into your eyes could cause a loss of vision. Never rub your eyes. If you get fluid in your eyes, immediately flush eyes thoroughly with water and consult your doctor immediately! Should battery fluid get onto your skin or clothing, immediately rinse the affected area with clear water!
- Never transport or store batteries together with necklaces, hair pins or other metal objects
- Never charge, use or leave batteries in area subjected to high heat, such as next to a heat source, under direct sunlight etc.

Applications

1. Convert any earphones/ headphones or hi-fi stereo system into a wireless unit
2. Stream your music wirelessly from a portable device to headphones or hi-fi system

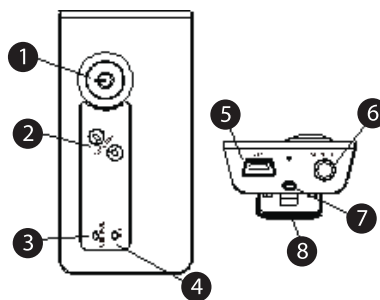


Transmitter



1. Power On/Off Switch
2. USB Audio 2 / Charge
3. Audio In 1 (3.5mm)
4. Link Status Indicator
5. Pairing Button
6. Charge Status Indicator

Receiver



1. Power On/Off Button
2. Volume Adjustment
3. Charge Status Indicator
4. Link Status Indicator
5. USB Charger Connector
6. Earphone Connector
7. Strap Hole
8. Clothespin

Set-Up

This product provides wireless capability for any audio source which has “LINE OUT” such as TV, PC, DVD player, mobile phone, TV set-top box, hi-fi stereo system etc.

Installation is described below.

Set-Up for Transmitter

You can connect any audio source to the transmitter using one of the following three options:

1. Male USB to mini USB cable (provided)
2. Ø3.5mm male to female earphone connector cable (not provided)
3. Ø3.5mm male earphone to two male RCA audio cable (not provided)

Below are various set-up examples

WARNING: Do not connect audio sources into Audio 1 and Audio 2 at the same time!

A. Connecting a Stereo/DVD Player/Set-Top Box:

Plug the two RCA connectors or Ø3.5mm male connector into Audio Out, Line Out, Headphones or Earphones on the media equipment as shown in Fig. A.

Then connect the other end into the Ø3.5mm female connector of transmitter as displayed in Fig. B.



Fig. A



Fig. B

B. Connecting to a Portable Device (Mobile/MP3 Player/iPod etc.)

Plug transmitter Ø3.5mm plug (Audio 1) directly into your portable device earphone connector as in Fig. C.



Fig. C

C. Connecting to a TV

You can connect any audio source to a TV using one of the following three options:

1. Plug transmitter Ø3.5mm plug (Audio 1) directly into TV earphone connector (Fig. D).
2. Connect the male side of the Ø3.5mm male to female cable into TV earphone connector (Fig. E) and the other end into the transmitter (Fig. F).
3. Connect the RCA end of the Ø3.5mm male plug to the TV Audio Out (Fig. G) and the other end into the transmitter (Fig. E).

D. Connecting to a Computer (PC/NB/Tablet)

You can connect any audio source to a computer using one of the following two options:

1. Plug transmitter Ø3.5mm plug (Audio 1) directly into your computer earphone connector (Fig. H).
2. Use the provided male USB to mini USB cable to connect directly into your computer earphone connector (Fig. I)

Note: Make sure your computer is set correctly to send sound output to the USB port. If the headphones do not have sound you must:

PC - Go to Start Menu - Control Panel - Sounds and Audio Devices - Audio (sound playback, default device) - Advanced - Choose either Stereo Headphones or Desktop Stereo Speakers

Apple - Go to System Preferences/Audio and select USB phones.

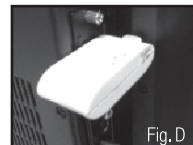


Fig. D



Fig. E



Fig. F



Fig. G



Fig. H



Fig. I

Set-Up for Receiver

A. Connecting Earphones/Headset

Plug earphones/headset (Fig. A) into receiver (Fig. B)



Fig. A

B. Connecting a Hi-Fi Stereo

Plug the RCA connectors or Ø3.5mm male connector into audio input (such as AUX In, Audio In, Line In etc.) of your hi-fi stereo (Fig. C) and the other side with Ø3.5mm female connector into the receiver as shown in Fig. B.



Fig. B

C. Connecting with any Active Speaker

Plug any amplified PC speaker (Fig. D) into the receiver (Fig B).



Fig. C

Operation

Play Music

1. Turn on your audio device and play sound.
2. Press the **Power** button to turn on the transmitter. The Link LED indicator will start to flash, which means the transmitter is in 'standby' status.
3. Press and hold the **Power** button for two seconds to turn on the receiver. You should now hear music from your audio source in the earphones.



Fig. D

Volume Adjust

Press **Volume ▲ ▼** key to adjust level of volume.

Battery Recharge

The AM8112 Audiomate transmitter and receiver both have rechargeable batteries. After continued playing for approximately five hours (transmitter) or seven hours (receiver), the batteries will require recharging.

If the transmitter battery is low, the Charge LED will light up. If the receiver battery is low, the music will stop and you will hear a “beep” warning tone.

Recharge the unit by connecting the male USB to mini USB cable to the computer USB port. Alternatively, you can purchase a 5V USB single charger to recharge the transmitter or receiver. Once the unit is fully charged, the Charge status indicator will no longer be lit.

Transmitter and Receiver Pairing

Pairing is the matching of encryption codes. Each set is properly paired at the factory, so that you will probably never have to do it. However, if the receiver fails to receive on any channel, try this pairing function:

1. **Power On** both the transmitter and receiver.
2. Using a pen, press and hold the pairing button on the transmitter for about five seconds. The Link status LED indicator on the transmitter will begin to flash fast and the transmitter will remain in pairing mode for the next 15 seconds.
3. Within this 15 seconds period, press and hold both of the **Volume ▲▼** keys on the receiver to enter pairing mode. After about five seconds, the LED's on both the transmitter and receiver will come on steadily. At the same time, if the headphones are plugged in, you can hear a beeping to indicate pairing beginning and completion.
4. Pairing is complete.

Notes:

- If the receiver LED lights up again but you do not hear the audio, repeat steps 2 and 3.
- If two or more receivers are used with the same transmitter, then all receivers should perform Step 3 within the same 15 second time period.

Troubleshooting

No Audio

- Make sure that the power **On/Off** switch on the transmitter and receiver have been turned on.
- Verify that all connections are correct.
- Check if the transmitter or receiver batteries need to be charged.
- Try pairing the transmitter with the receiver.
- Verify that your audio source (TV, computer, Mp3 player etc.) is producing sound.
- Audio level into the transmitter may be low, try turning the volume up on the device or change to another audio source.
- Verify that your computer is configured to give USB audio output.

Audio is Distorted

- Adjust audio output level of PC
- Check if USB connector (transmitter) and 3.5mm audio plug (receiver) are connected correctly.

Audio is noisy, drops out intermittently or crackles

- Adjust audio output level of audio source (TV, computer etc.)
- Make sure the USB port of the transmitter is connected correctly.
- Check if the audio source is noisy.
- Make sure the distance between transmitter and receiver does not exceed a 30 metre line-of-sight. If this is more than 30 metres, reduce the distance.
- Ensure there are no large metal obstructions in the transmission path between transmitter and receiver, including ceiling floors, beams, stairs, office partitions, metal cabinets, metal desks etc. Try to avoid any obstruction in line-of-sight. If this is not possible, then reduce the distance between transmitter and receiver.

Specifications

Supply Voltage	5V DC (battery charger)
Current Consumption	TX: 68mA RX: 37mA
Modulation	FHSS/GFSK
Channel Group Selection	Auto
Channel Frequency	2400 ~ 2483.5 MHz
Channel Group Number	4
TX Digital Audio Input	USB
TX Analogue Audio Output	3.5mm stereo phone plug
TX and RX Battery Type	Built-in Li-ion battery
RX Analogue Audio Output	3.5mm stereo phone jack
Audio Frequency Bandwidth	20 ~ 20KHz, -3dB
S/N Ratio	80 dB (min.)
THD	0.7% (max.)
Dimension	TX: 59 x 45 x 16mm RX: 60 x 33 x 20mm
Weight	TX: 20g RX: 23g

FCC Notices

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CAUTION: Change or modification not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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.

CAUTION:

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

RF exposure warning:

The equipment complies with FCC RF exposure limits set forth for an uncontrolled environment. The equipment must not be co-located or operating in conjunction with any other antenna or transmitter.

This equipment also should be installed and operated with minimum distance 20cm between the radiator & your body.

Declaration of Conformity for R&TTE directive 1999/5/EC

Essential requirements – Article 3

Protection requirements for health and safety – Article 3.1a

Testing for electric safety according to EN 60065 has been conducted. These are considered relevant and sufficient.

Protection requirements for electromagnetic compatibility – Article 3.1b

Testing for electromagnetic compatibility according to EN 301 489-1 and EN 301 489 -17 has been conducted. These are considered relevant and sufficient.

Effective use of the radio spectrum – Article 3.2

Testing for radio test suites according to EN 300 328 has been conducted.

These are considered relevant and sufficient.



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