

# Artcoustic<sup>FIC</sup>

## CPH-TRIO OWNERS MANUAL



[www.artcoustic.com](http://www.artcoustic.com)

# *Welcome to the world of Artcoustic!*

## CPH-Trio Amplifier

The new compact CPH-Trio amplifier comes with an impressive selection of features. This 2.1 digital amplifier features digital and analogue inputs to connect with virtually any device. For loss-less audio, connect to your digital devices through the Trio Coaxial or Optical Digital input or wirelessly through the latest Hi-Fi grade, Bluetooth technology.

The CPH-Trio amp is equipped with some simple but very handy filters, such as the Artcoustic ASOF sub frequency EQ filter and a flat shelve treble filter, combined with easy-to-use volume and gain controls. It comes with an efficient and easy-to-use digital crossover, ensuring perfect acoustic integration.

Thank you for purchasing the Artcoustic CPH-Trio.

All the best,  
The Artcoustic Team

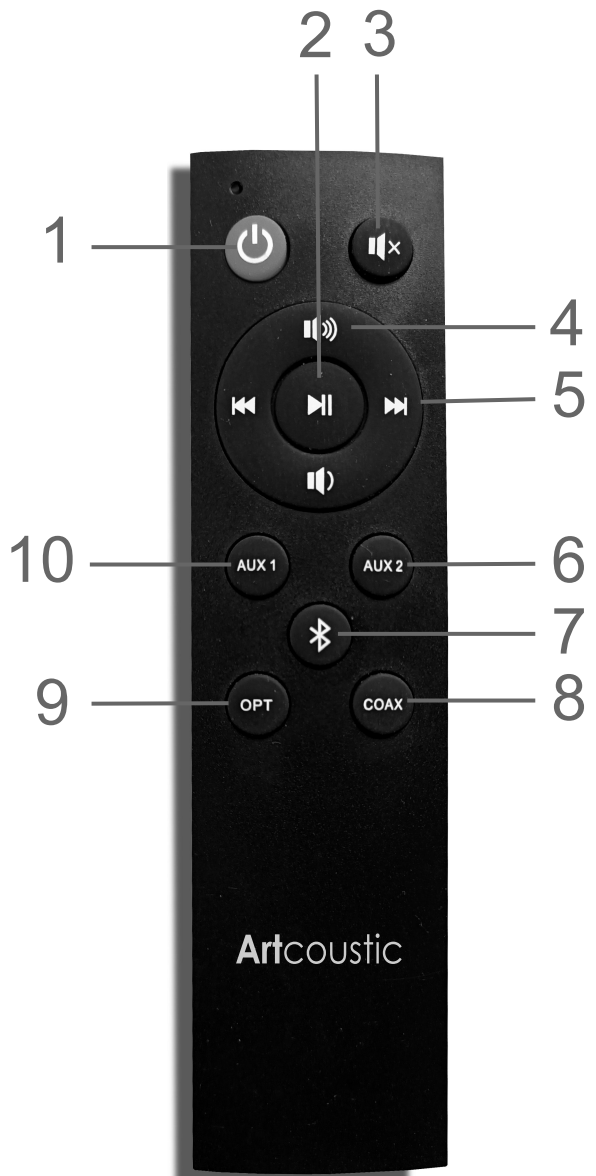


### Whats in the box.

- 1 pcs Artcoustic Trio 2.1 digital amplifier
- 1 pcs DC 21 volt, 5 A AC multi-voltage power supply
- 1 pcs power cord
- 1 pcs RF antenna
- 1 pcs IR remote
- 1 pcs IR receiver
- 1 pcs A4 size users manual

### Remote control features

1. On/off
2. Play and pause, BT two-way function
3. Amplifier mute
4. Volume up and volume down
5. Previous and next track, BT two-way function
6. AUX 2
7. BT input
8. Coaxial input
9. Optical input
10. AUX 1





# CPH-TRIO FEATURES

## High-end class D amplifier performance

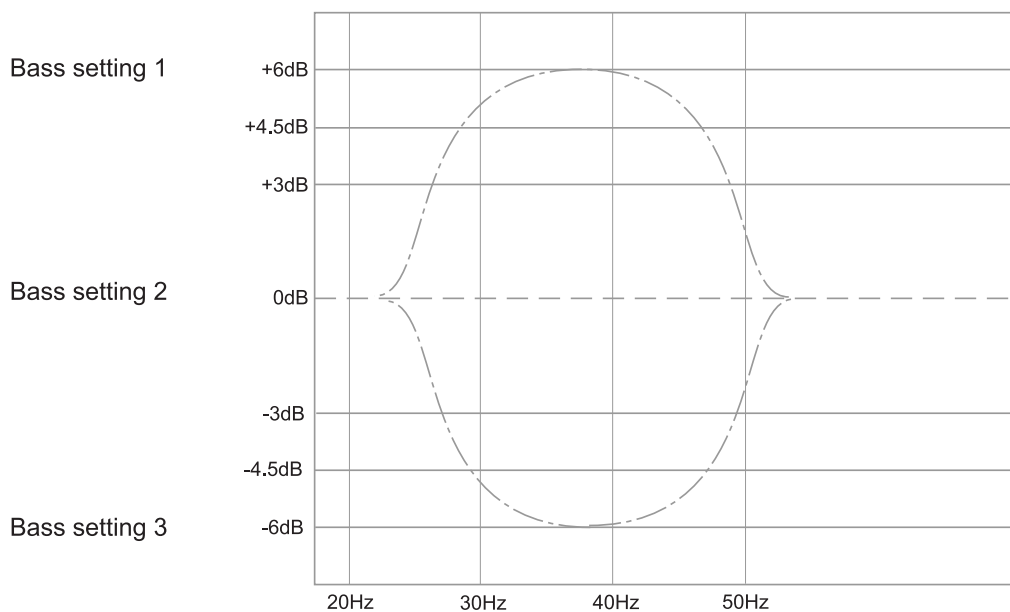
2 x 30 watt 8 ohm stereo output and 1 x 50 watt 8 ohm subwoofer output

## Convenient features

- Input sensitivity control
- Power and channel select indicator
- RCA inputs
- Speaker level inputs
- Bluetooth wireless connectivity
- Stereo and subwoofer link out
- Stable performance down to 4 ohms
- Crossover, low-pass, full range and 80 Hz 24 dB per octave
- Crossover, high-pass, full range, 100 Hz and 120 Hz 24 dB per octave
- ASOF (Artcoustic Subwoofer Optimized Filter)
- Extended protection circuit

Ensure the input setting switch is moved to the correct position for the application. The ASOF EQ switch is designed specifically for Artcoustic speakers and subwoofers.

ASOF EQ. Filters and filter slope explained.



## Bass setting 1

EQ slope optimized for smaller Artcoustic subwoofer models, such as IWS-10, CPH-10 Sub and Impact 1. The Bass 1 setting mainly enhances the very deep frequencies below 45 Hz. This setting is good for installations with main focus on 2-channel music reproduction.

This setting is also recommended for setups without the use of subwoofer and has especially been timbre matched to the smaller Artcoustic fullrange models, Target SL and the more powerful CPH-10P.

## Bass setting 2

Flat response with no EQ added to the signal. Recommended setting for environments where less dynamics and lower distortion is required.

## Bass setting 3

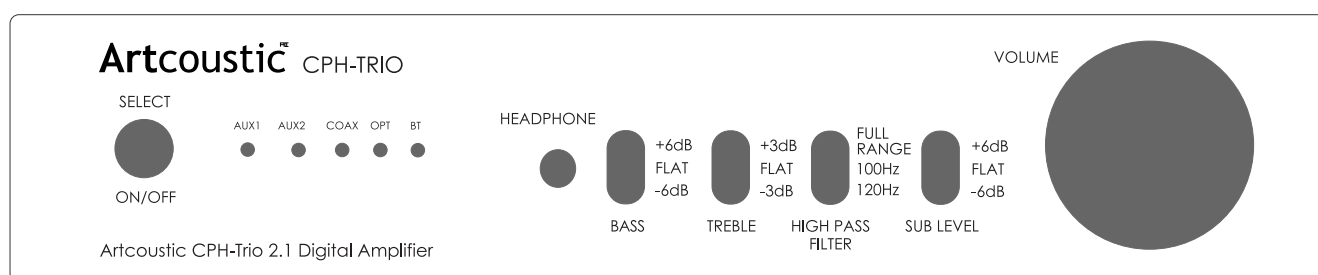
EQ slope optimized for setups with much reduced dynamic range, often used for speech only applications.

# SPECIFICATIONS

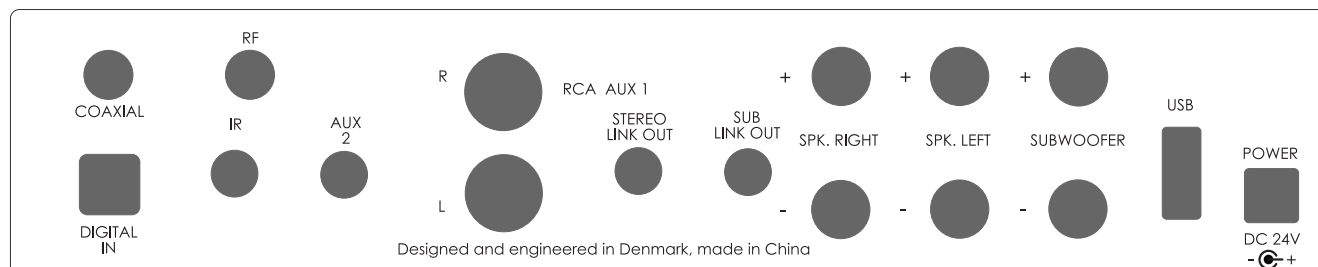
## CPH-Trio Technical Specifications

- Stereo 2 x 30 watt 8 ohm
- Sub 1 x 50 watt 8 ohm
- Full range: 20 Hz - 20 kHz  $\pm$  1 dB
- Sub Low - pass filter: 80 Hz dB 24 / oct (fixed)
- Hi - pass filter: 100 Hz 24 dB / oct & 120 Hz 24 dB / oct
- SNR $\geq$  BT: 105 dB Input 1/2 96 dB
- THD (at 1 watt into 4 ohms kHz) < / RCA 0.003 % 0.002 % 0.001 %
- Input sensitivity: RCA 1.5 Vrms 10 Vrms, BT / COAX 0 dB
- Power supply: DC 21 V 5 A
- Wireless Bluetooth
- Output terminals: speaker binding posts
- Dimensions: 180 x 127 x 48 mm
- Weight: 0.8 kg

## Front panel layout



## Rear panel layout



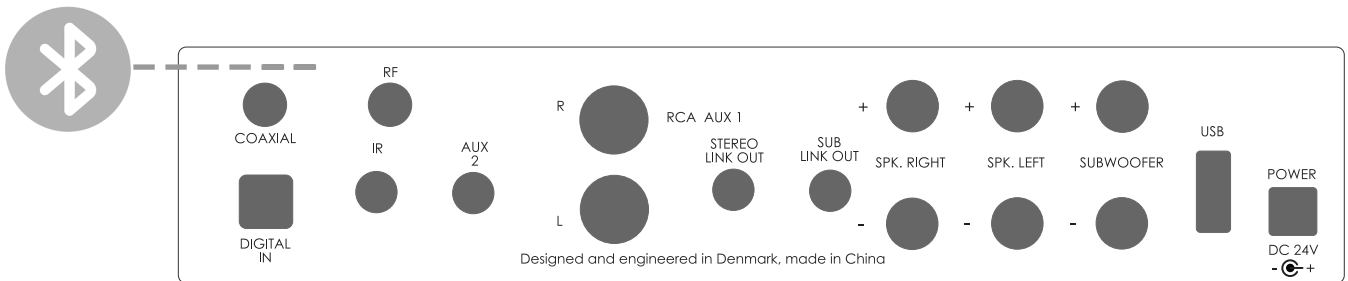
# CONNECTIVITY

## CONNECTING WITH BLUETOOTH

Fast and easy wireless connection for virtually any device.

1. Enable Bluetooth pairing on your CPH unit. The Red BT LED indicator will flash with fast intervals, giving the user a 2 minut pairing time. If no BT source has been paired within 2 minutes, the BT port will close again and pairing process will have to be repeated.
2. Enable Bluetooth pairing on your CPH device and select **CPH** as your Bluetooth receiver.
3. Adjust the volume on the CPH-Trio and on your mobile phone, tablet or other Bluetooth device.

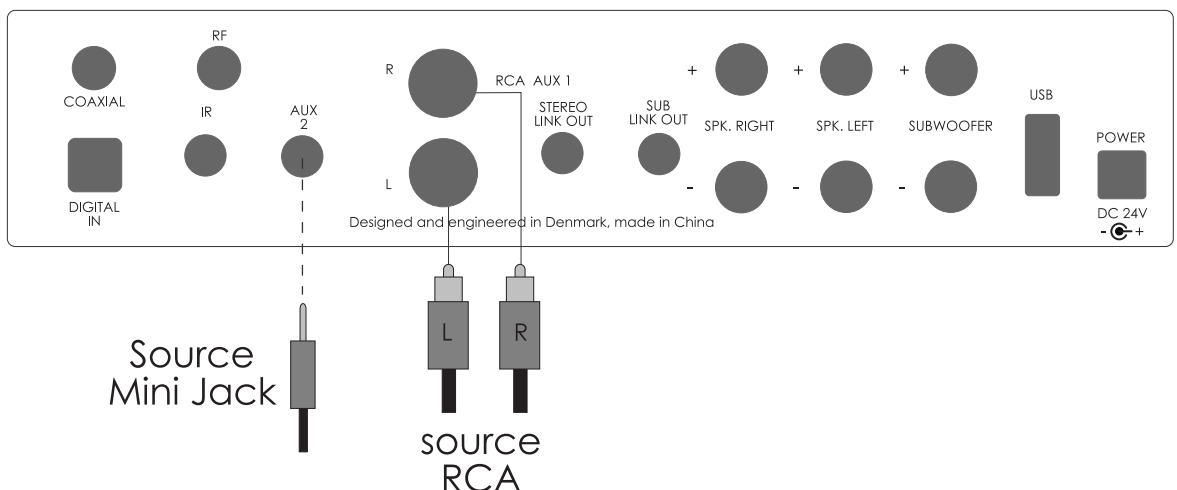
**Note:** Unpairing of the Artcoustic CPH unit can be done from the paired device, or by power off.



## CONNECTING WITH WIRES

On the rear panel of CPH-Trio the RCA and mini jack L & R input will support an analog signal to connect both the L & R channels in order to achieve Stereo output.

### Connecting amplifier in analog stereo

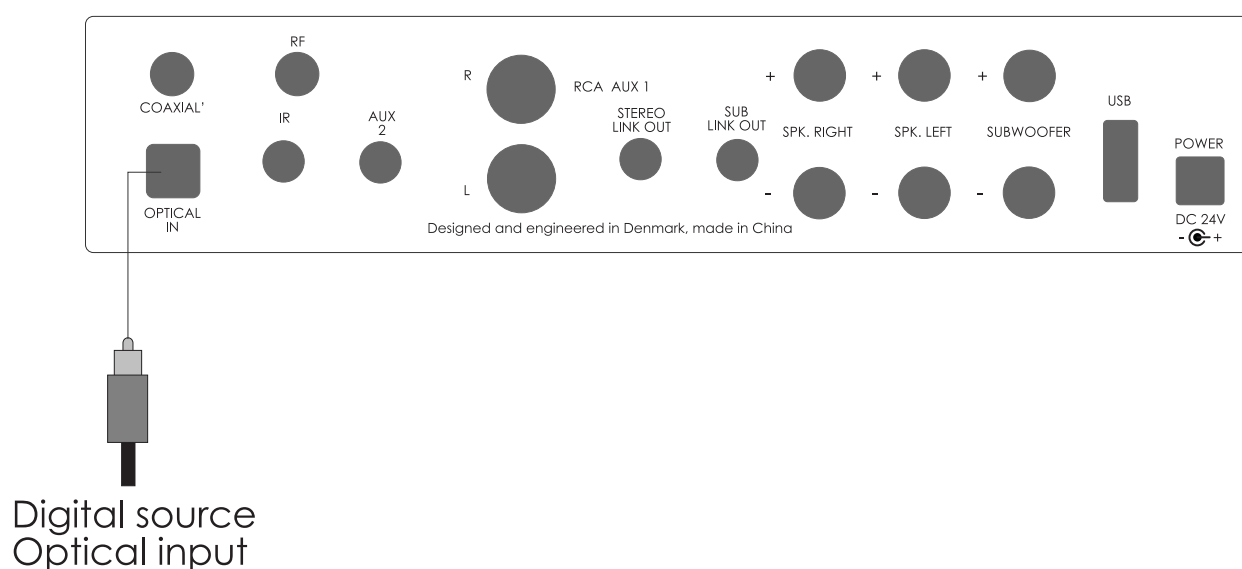
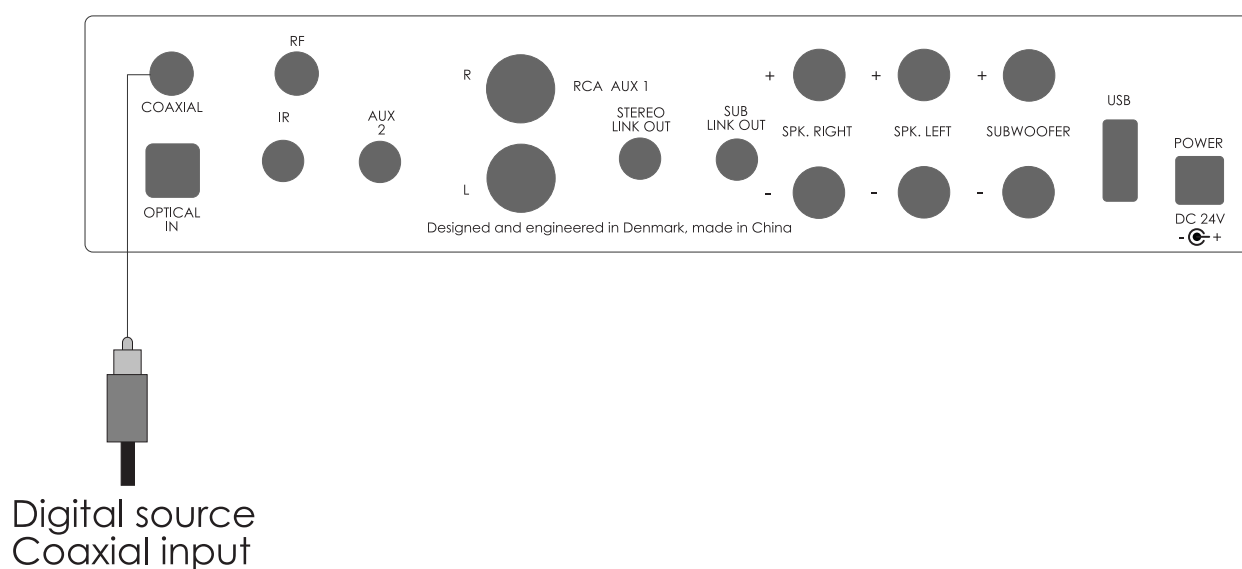


# CONNECTIVITY

## CONNECTING WITH DIGITAL COAXIAL AND OPTICAL INPUT (DAC)

On the rear panel of CPH-Trio the RCA digital input will support a digital loss-less signal, enabling the Trio amplifier to be used as a high quality DAC.

## Connecting with high quality digital input and digital audio converter function (DAC).



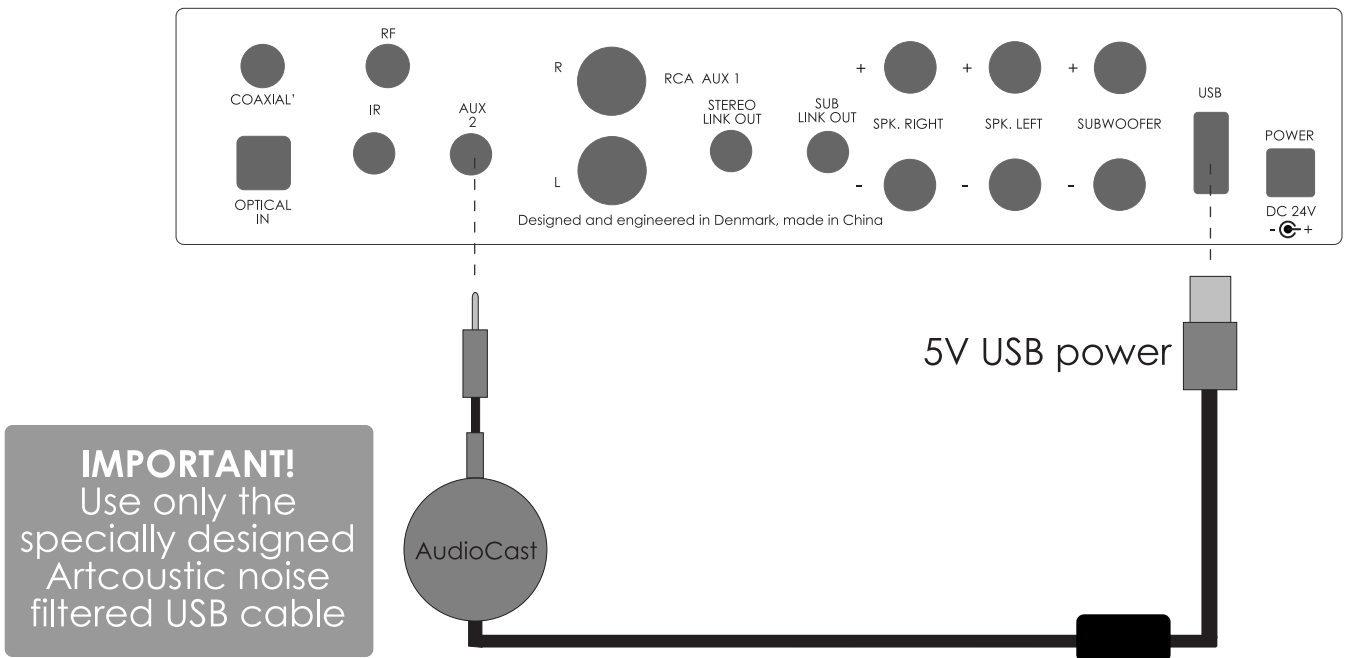


# CONNECTIVITY

## CONNECTING WITH WIFI

There are many high quality WIFI solutions available. The below setup is using the AudioCast dongle, but should serve as one example only.

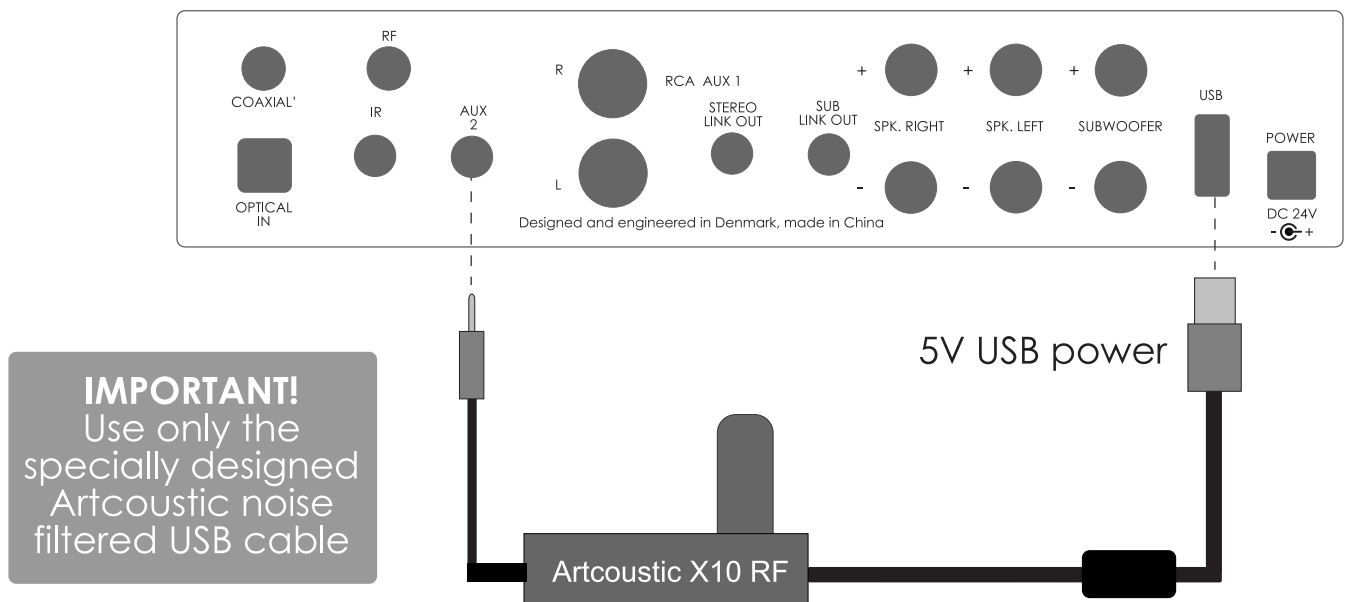
### Connecting CPH-Trio using AudioCast dongle, or similar wireless device.



## CONNECTING WITH ARTCOUSTIC X10 RF MULTI-ROOM AUDIO SYSTEM

Artcoustic X10 RF Multi-Room Audio System.

Connect up to 10 zones in perfect sync. No app required and no network required. The Artcoustic X10 Multi-Room Audio System streams any analogue source in close to loss-less audio quality and with a streaming reach up to 100 meters.



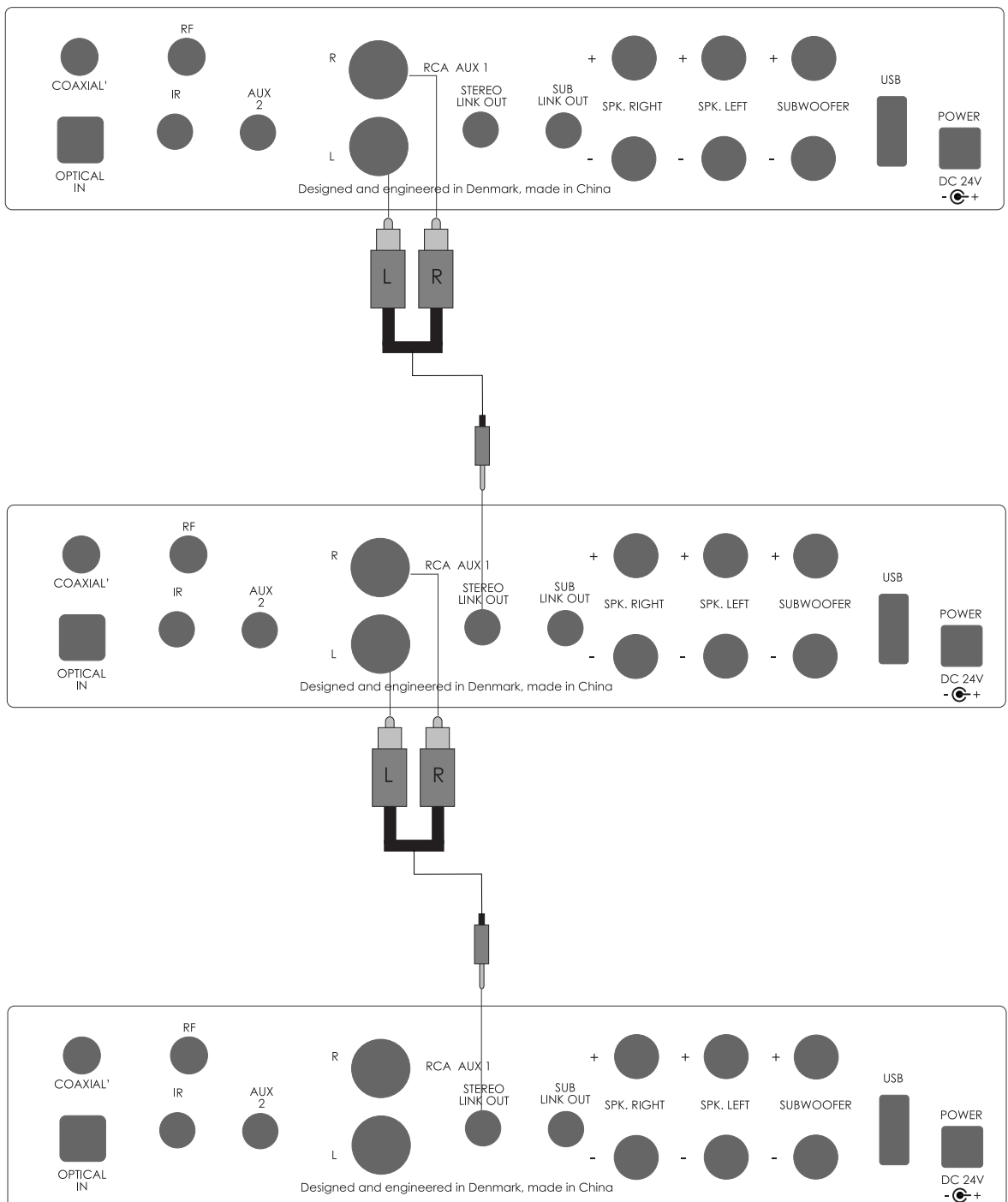
# CONNECTIVITY

## CONNECTING MULTIPLE AMPLIFIERS AND ACTIVE CROSSOVER

Multiple amplifiers can easily be connected using the stereo and subwoofer link out function.

**NOTE:** Crossover, EQ and master volume front panel settings will control the link out signal behavior.

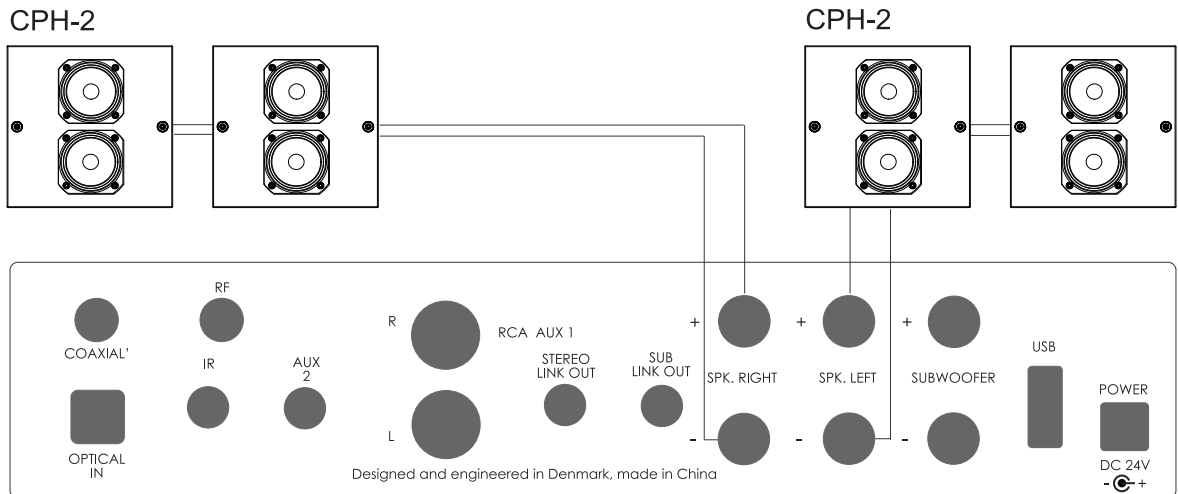
### Connecting CPH-Trio multiple units and link function.



# CONNECTIVITY

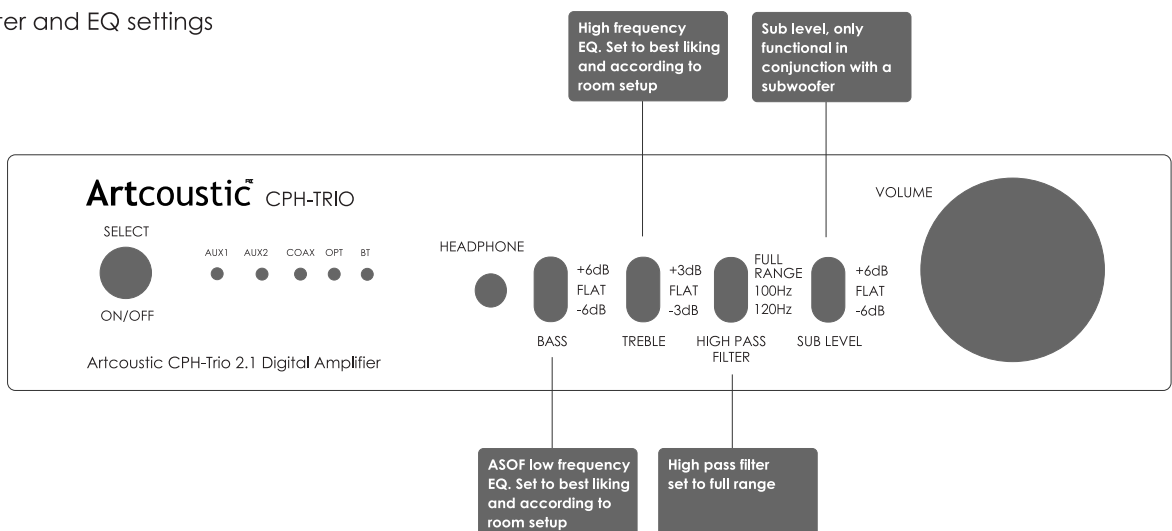
## CONNECTING WITH FULL RANGE SPEAKERS

The CPH-Trio amplifier can power up to 4 pcs. 8 ohm speakers simultaneously, making it a powerful cost efficient solution for commercial and residential high-end music systems.



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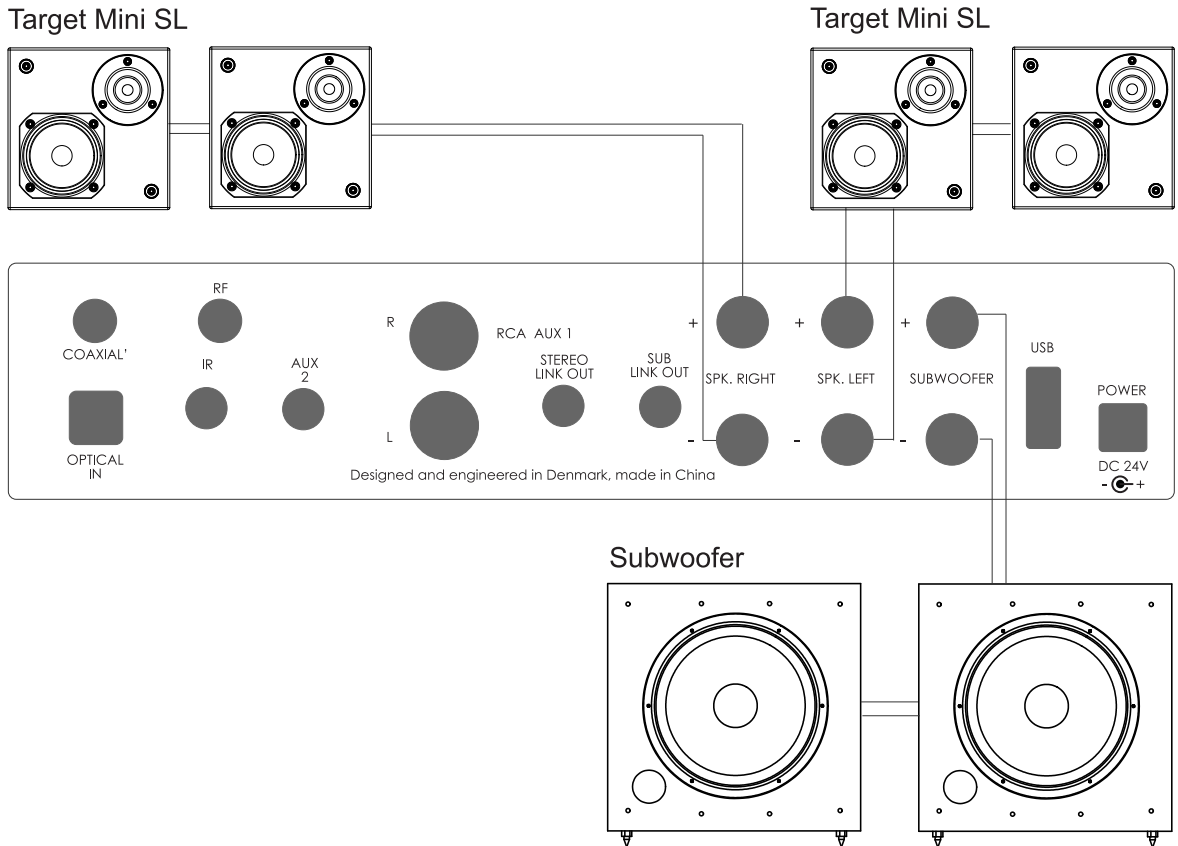
Front panel filter and EQ settings



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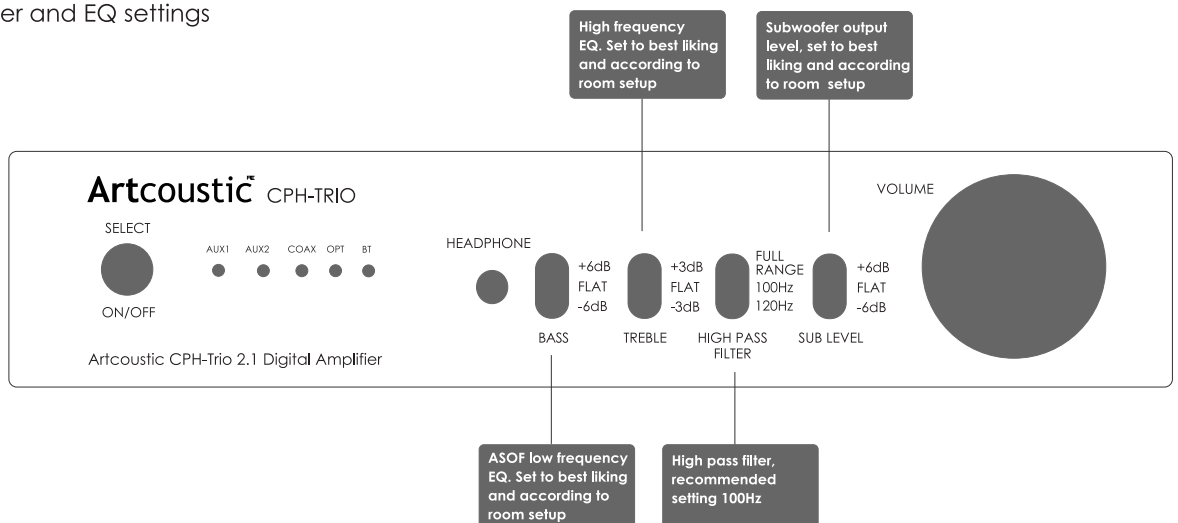
## CONNECTING WITH SUBWOOFER AND SATELLITE SPEAKERS

The CPH-Trio amplifier can power up to 4 pcs. 8 ohm speakers and 2 pcs. Artcoustic 8 ohm subwoofers simultaneously, making it a powerful cost efficient solution for commercial and residential setups.



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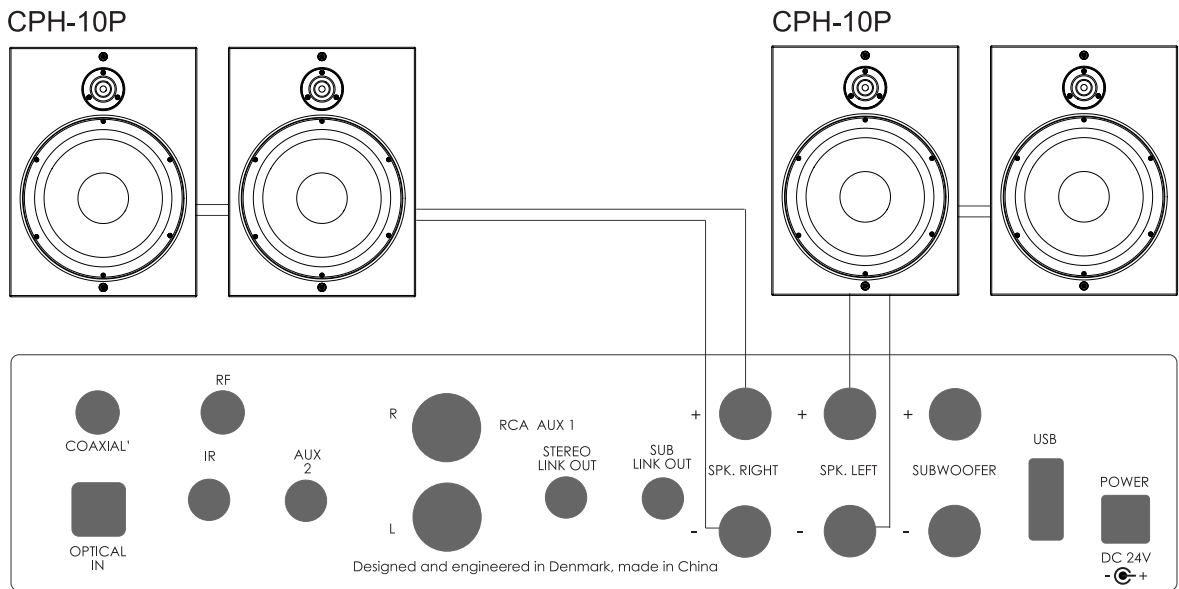
Front panel filter and EQ settings



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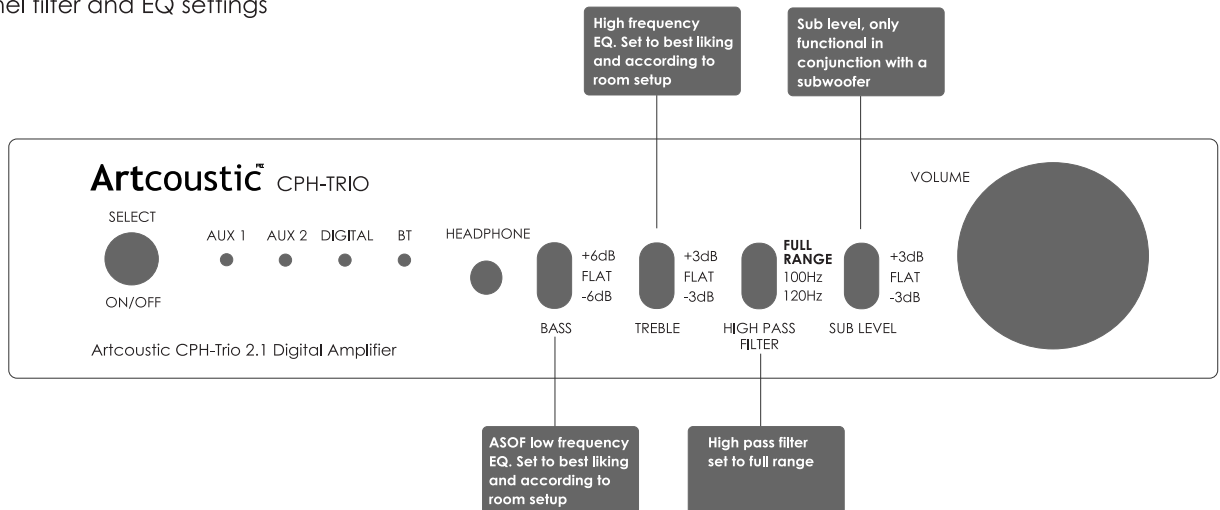
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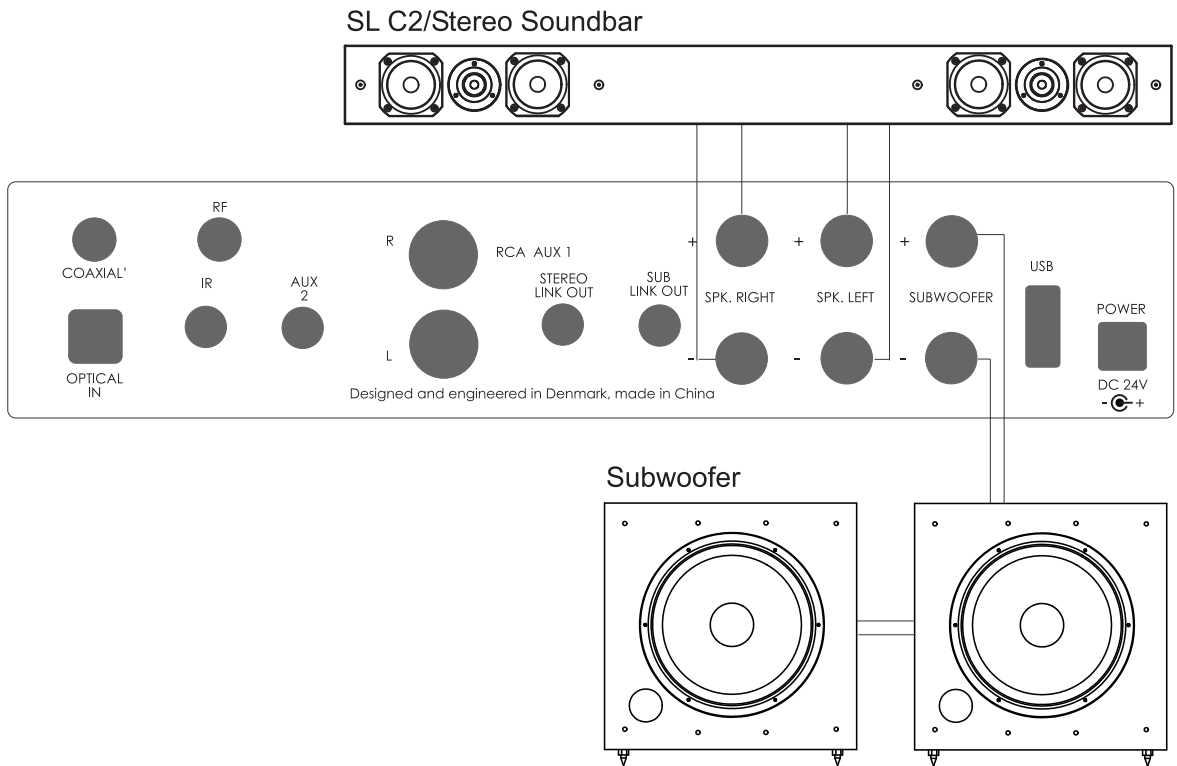
Front panel filter and EQ settings



# CONNECTIVITY

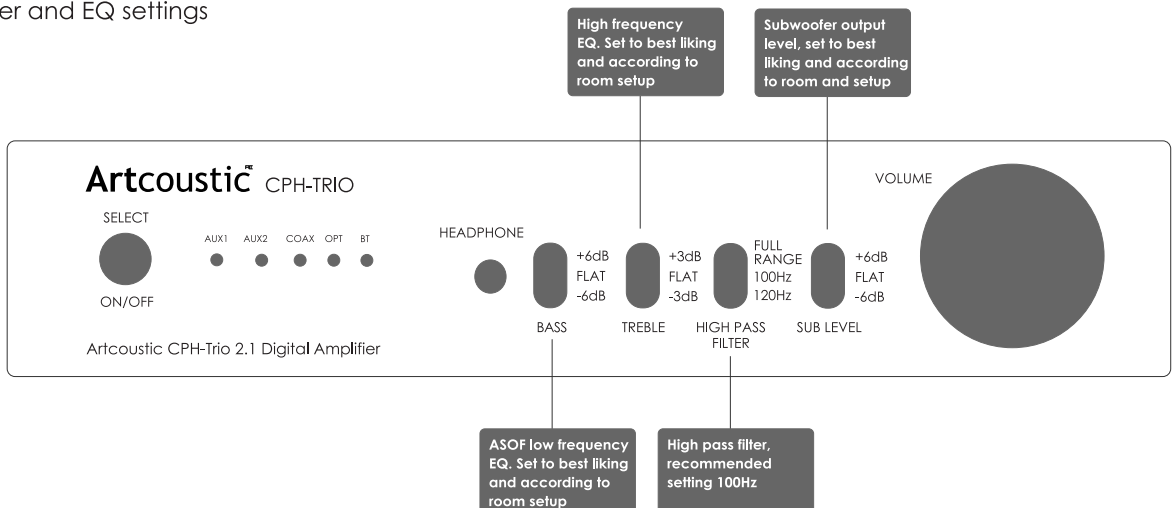
## CONNECTING WITH SUBWOOFER AND SATELLITE SPEAKERS

The CPH-Trio amplifier can power up to 2 pcs. 12 ohm C-2 stereo soundbars and 2 pcs. Artcoustic 8 ohm subwoofers simultaneously, making it a powerful cost efficient solution for commercial and residential TV installations.



## CONNECTING WITH SUBWOOFER AND SATELLITE SPEAKERS

Front panel filter and EQ settings



# SAFETY INSTRUCTIONS

## SAFETY:

1. Do not use this product near water.
2. Clean rear panel only with dry cloth.
3. Do not block any ventilation openings.
4. Do not install near any heat sources, such as radiators, heat registers, stoves.

Refer all servicing to qualified service personnel. Servicing is required when the product has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the product, the product has been exposed to rain or moisture, does not operate normally or has been dropped. To completely disconnect unit power from the AC mains, disconnect the unit's power cord from the mains socket.

## WARNING:

To reduce the risk of fire and electric shock do not expose this product to rain or moisture.

1. Do not place product filled with liquids such as vases on the product.
2. Do not open product. There are no user-serviceable parts inside.
3. Always use the power supply shipped with this product. Using a power supply with wrong voltage or polarity can damage the electronics.

This product complies with Part 15 of the FCC Rules. Its operation is subject to the following two conditions:

This product may not cause harmful interference.

This product 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.

## WARRANTY:

Is valid only for products purchased from an authorized Artcoustic retailer or dealer.

Is valid from the date of purchase for a period of 3 years for passive loudspeakers, 2 years for powered loudspeakers and electronics.

Is limited to the repair of the equipment (which could be a repair or replacement at our discretion, neither of which affects your original warranty). Neither transportation, nor any other costs, nor any risk for removal, transportation and installation of products is covered by this warranty.

Is only valid for the original owner. It is not transferable.

Will not be applicable in cases other than defects in materials and/or workmanship at the time of purchase and will not be applicable:

For deterioration of component parts, the nature of which is to become worn or depleted with use, such as batteries.

For damages caused by incorrect installation, connection or packing.

For damages caused by any use other than correct use described in the user manual, negligence, modifications, or use of parts that are not made or authorized by Artcoustic UK Ltd.

For damages caused by faulty or unsuitable ancillary equipment.

For damages caused by accidents, lightning, water, fire heat, war, public disturbances or any other cause beyond the reasonable control of Artcoustic UK Ltd. and its appointed distributors.

If it is found necessary to return the product for repair, you may be given a Return Merchandise Authorization. You should not return the product without this authorization, if given.

To validate your warranty, you will need to produce the original sales invoice or other proof of ownership and date of purchase.

# Artcoustic<sup>FIG</sup>



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