

Artcoustic^{ACC}

CPH-TRIO AMPLIFIER

Owners manual



WELCOME TO THE WORLD OF ARTCOUSTIC

Congratulations on your purchase of the 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 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 an Artcoustic product.

All the best,
The Artcoustic Team

WHAT'S IN THE BOX

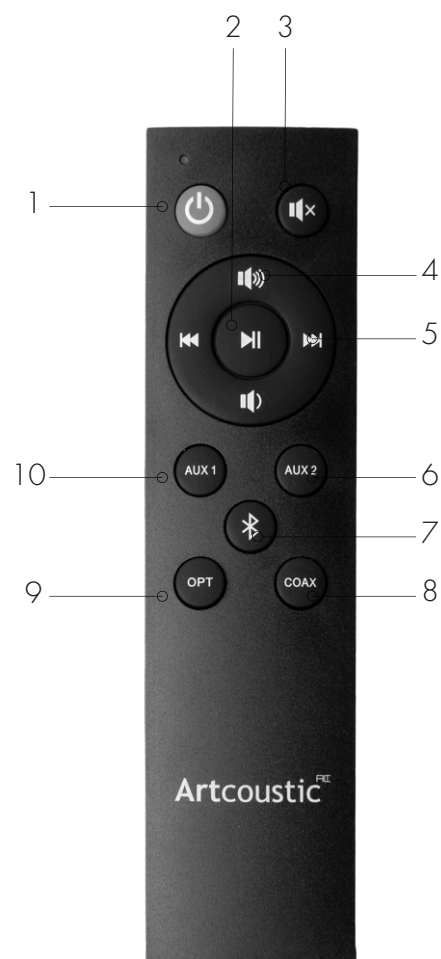
- 1 ARTCOUSTIC TRIO 2.1 DIGITAL AMPLIFIER
- 1 DC 21V, 5A DC MULTI-VOLTAGE POWER SUPPLY
- 1 POWER CORD
- 1 RF ANTENNA
- 1 IR REMOTE
- 1 IR RECEIVER
- 1 WARRANTY CARD



REMOTE CONTROL FEATURES

1. On/Off
2. Play and pause, BT two-way function
3. Amplifier mute
4. Volume Up and Volume Down
5. Next and Previous track, BT two-way function
6. AUX 2
7. BT input
8. Coaxial input
9. Optical input
10. AUX 1

*BT : Bluetooth
*AUX : Auxiliary



FEATURES

HIGH-END CLASS D AMPLIFIER PERFORMANCE

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

COVENIENT FEATURES

INPUT SENSITIVITY CONTROL

POWER AND CHANNEL SELECT INDICATOR

RCA INPUTS

SPEAKER LEVEL INPUTS

BLUETOOTH WIRELESS CONNECTIVITY

STEREO AND SUBWOOFER LINK OUT

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 SPEAKERS OPTIMIZED FILTER)

EXTENDED PROTECTION CIRCUIT

SPECIFICATIONS

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 > BT : 105 dB Input 1/2 96dB
THD (at 1 watt into 4 ohms kHz) < / RCA 0.003 % 0.002 % 0.001 %
Input sensitivity: RCA 1.5 Vrms, BT / COAX 0 dB
RS232 firmware and control
Output terminals: speaker binding posts

STEREO



Stereo 2 x 30 Watt
8 ohm

OPERATING RANGE

20 Hz — 20 kHz
 $\pm$ 1 dB

SUB



Sub 1 x 50 Watt
8 ohm

CONNECTIVITY



Wireless Bluetooth



RS232

POWER SUPPLY



DC 21V 5A



USB 5V 1.5A

DIMENSIONS



H: 180 W: 127 D: 48mm

WEIGHT



0.8 kg

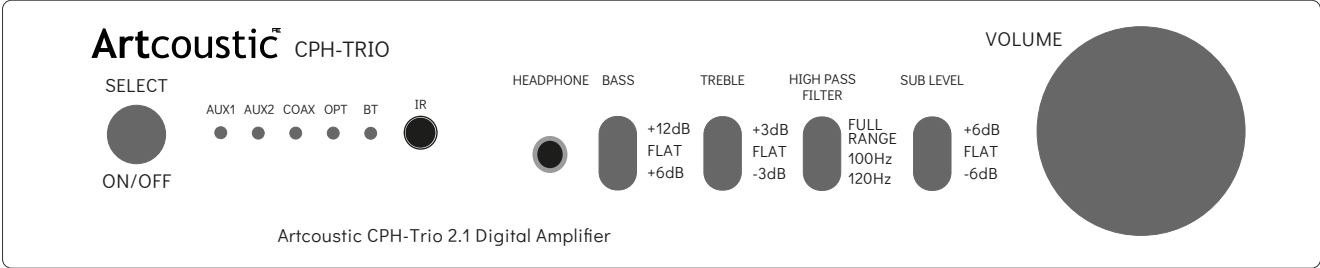
OVERVIEW



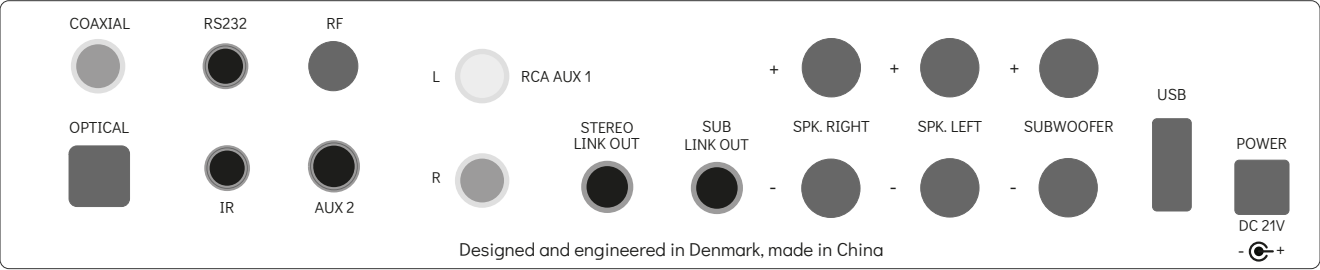
front view

rear view

FRONT PANEL LAYOUT

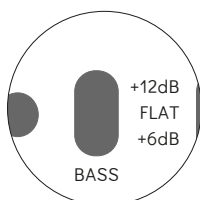


REAR PANEL LAYOUT

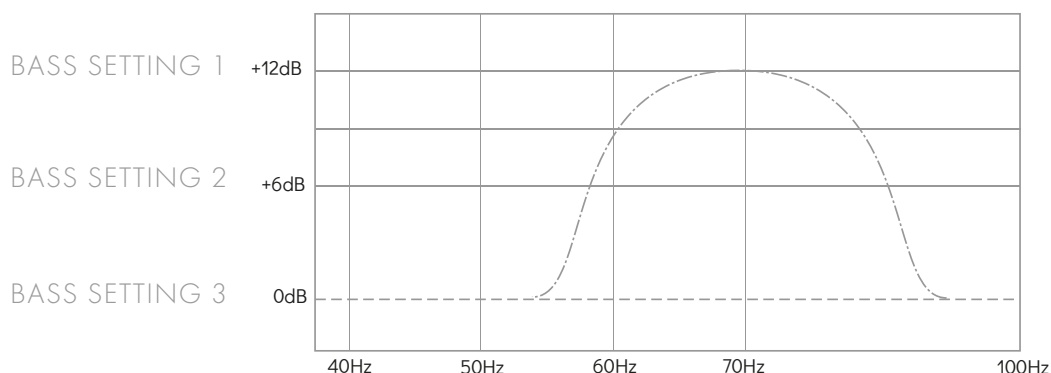


SETUP

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



ASOF EQ. FILTERS AND FILTER SLOPE EXPLAINED



BASS SETTING 1

EQ slope optimized for smaller Artcoustic speakers models, such as Target Mini, Target, Evolve 3-1 and the CPH-10 passive.

Bass setting 1 mainly enhances the mid-bass frequencies below 60Hz-90Hz.

This setting is good for installations with main focus on full-range 2-channel music reproduction.

This setting is also recommended for setups without the use of a subwoofer.

BASS SETTING 2

A more moderate EQ added to the signal. Recommended setting for environments where less dynamics and lower distortion is required.

BASS SETTING 3

No EQ added, optimized for setups with reduced dynamic range, often used for speech only and higher overall output applications.

CONNECTIVITY

CONNECTING WITH BLUETOOTH

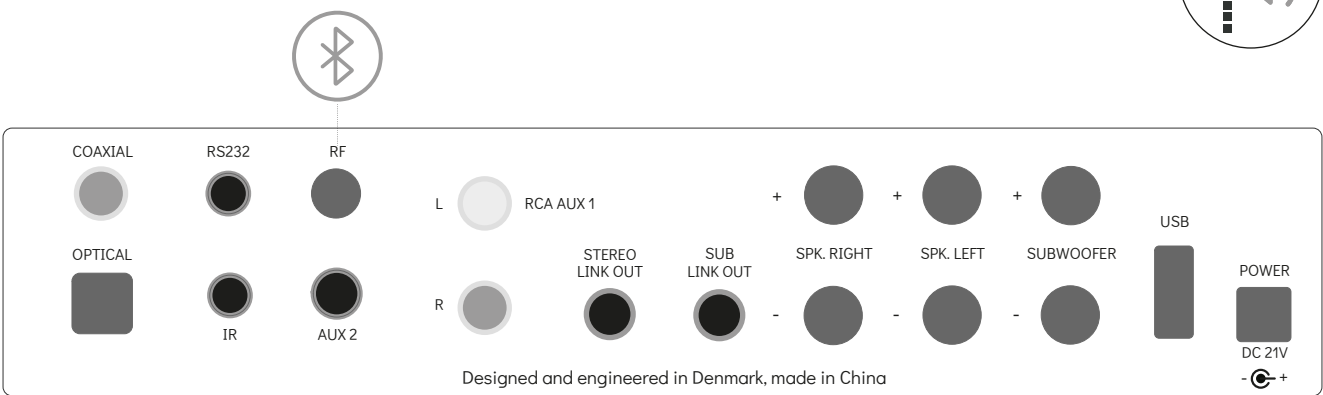
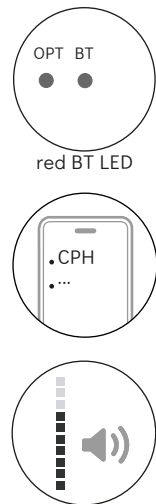
Fast and easy wireless connection for virtually any device.

1. Enable Bluetooth pairing on your CPH unit.
The Red BT LED indicator will flash with fast intervals, giving the user a 2-minute pairing time. If no BT source has been paired within 2 minutes, the BT port will close again, and the 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.

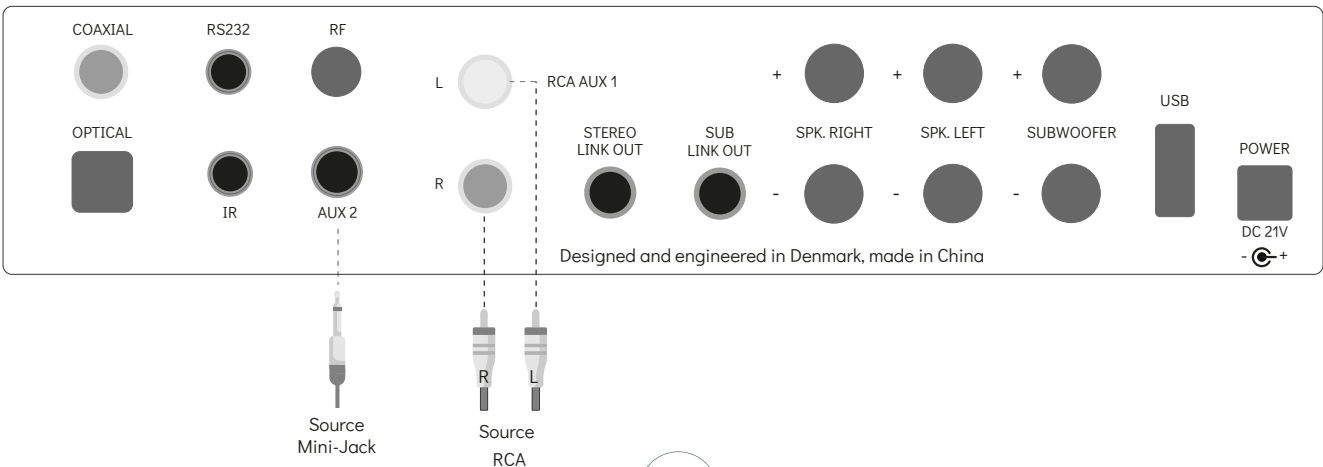
Note: Unpairing of the Artcoustic CPH unit can be done from the paired device, or by power off.



CONNECTING WITH WIRES

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

CONNECTING AMPLIFIER IN ANALOG STEREO

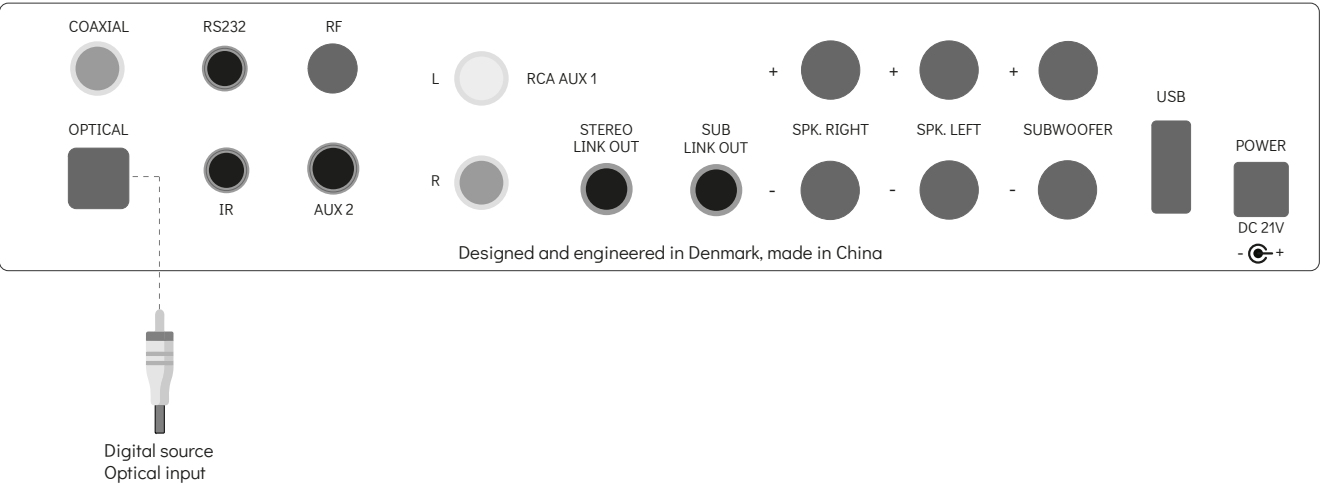
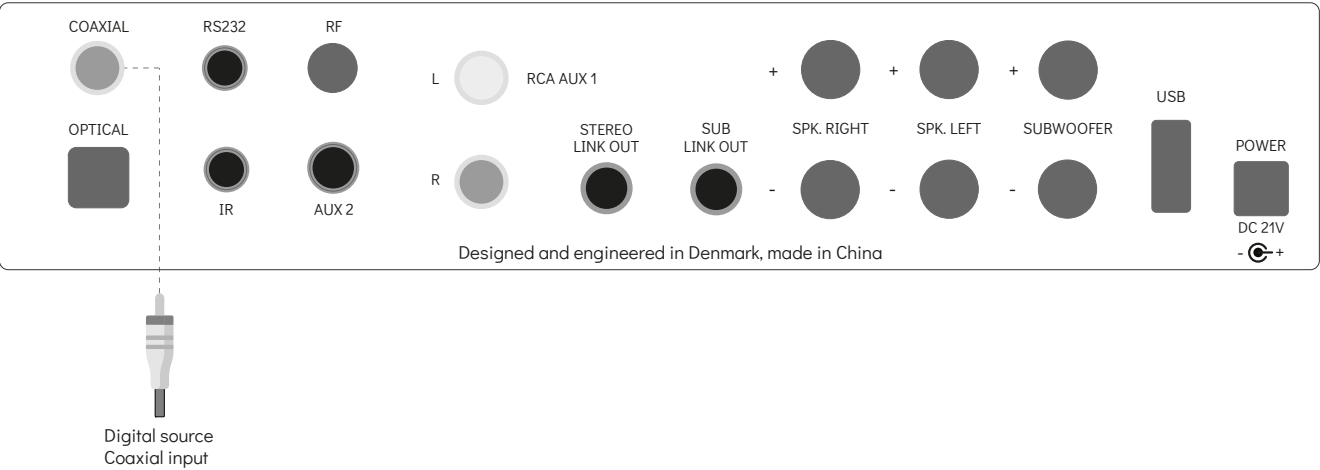


CONNECTIVITY

CONNECTING WITH DIGITAL COAXIAL AND OPTICAL INPUT (DAC)

On the rear panel of the 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)

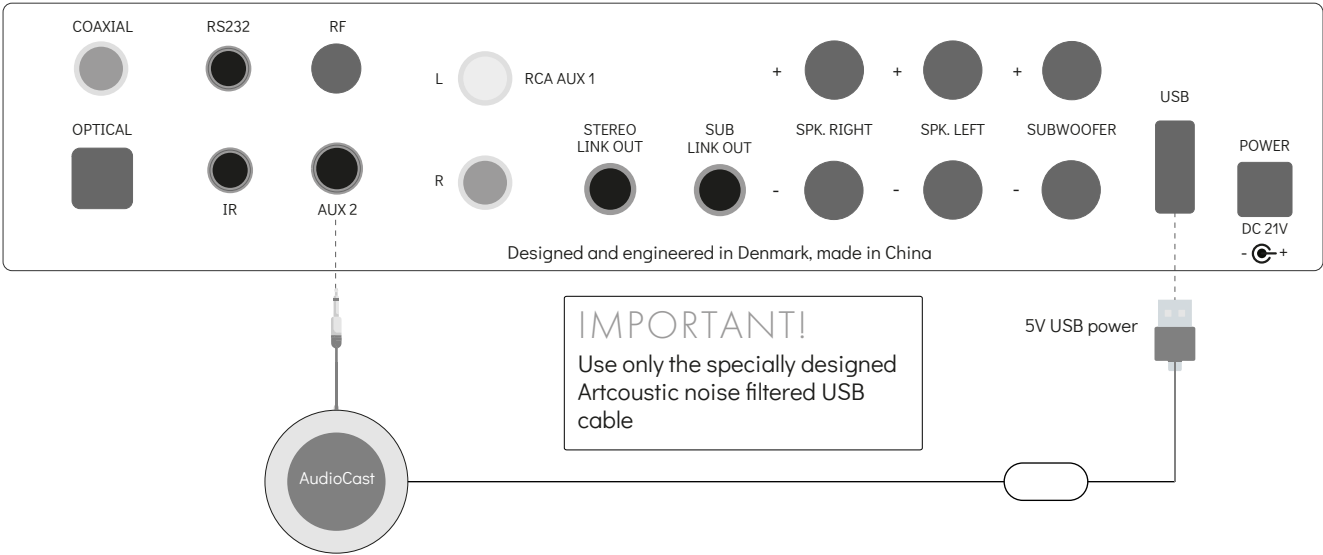


CONNECTIVITY

CONNECTING WITH WIFI

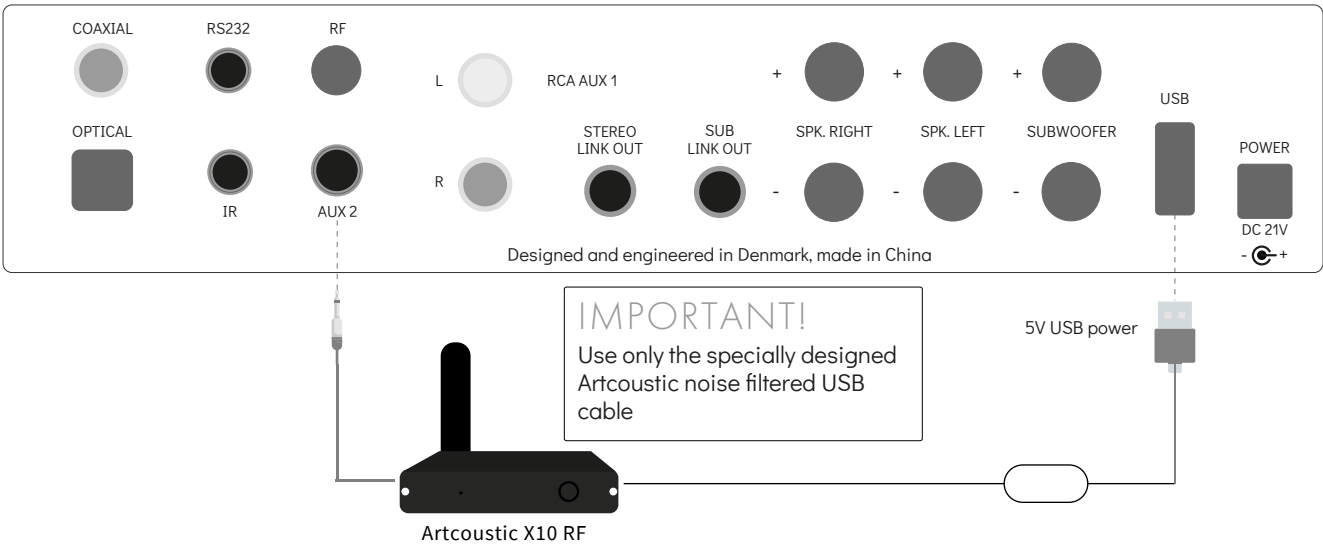
There are many high-quality WIFI solutions available. The below setup is using the AudioCast dongle but should serve as one example only.

CONNECTING CPH-TRIO USING AUDIOCAST DONGLE, OR A 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 is required and no network is required.
The Artcoustic X10 Multi-Room Audio System streams any analogue source in close to lossless audio quality and with a streaming reach up to 100 meters.

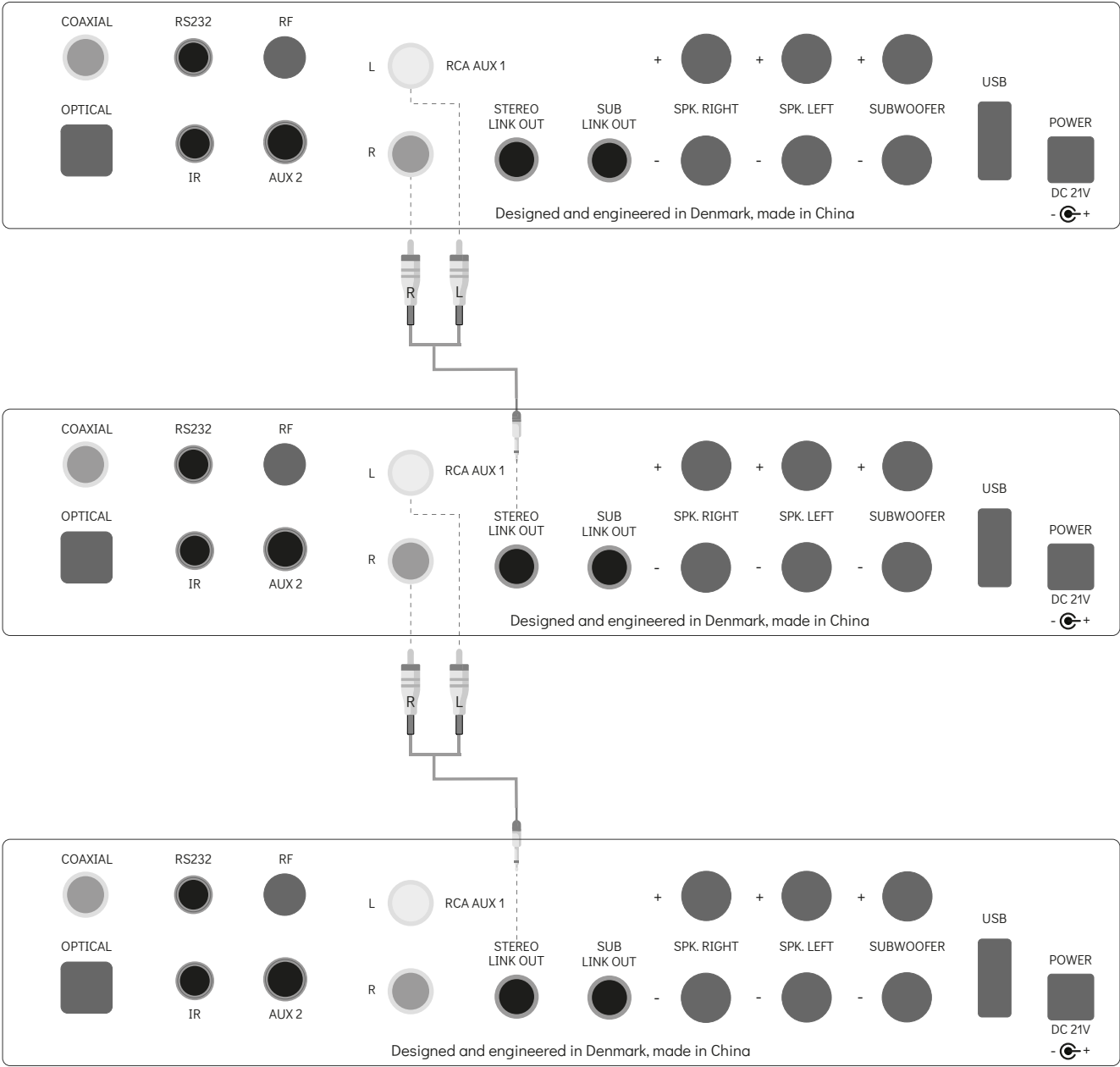


CONNECTIVITY

CONNECTING MULTIPLE AMPLIFIERS AND ACTIVE CROSSOVER

Multiple amplifiers can easily be connected using the stereo and subwoofer link out function. Crossover, EQ, and master volume front panel settings will control the link out signal behavior.

CONNECTING CPH-TRIO WITH MULTIPLE UNITS AND LINK FUNCTION.

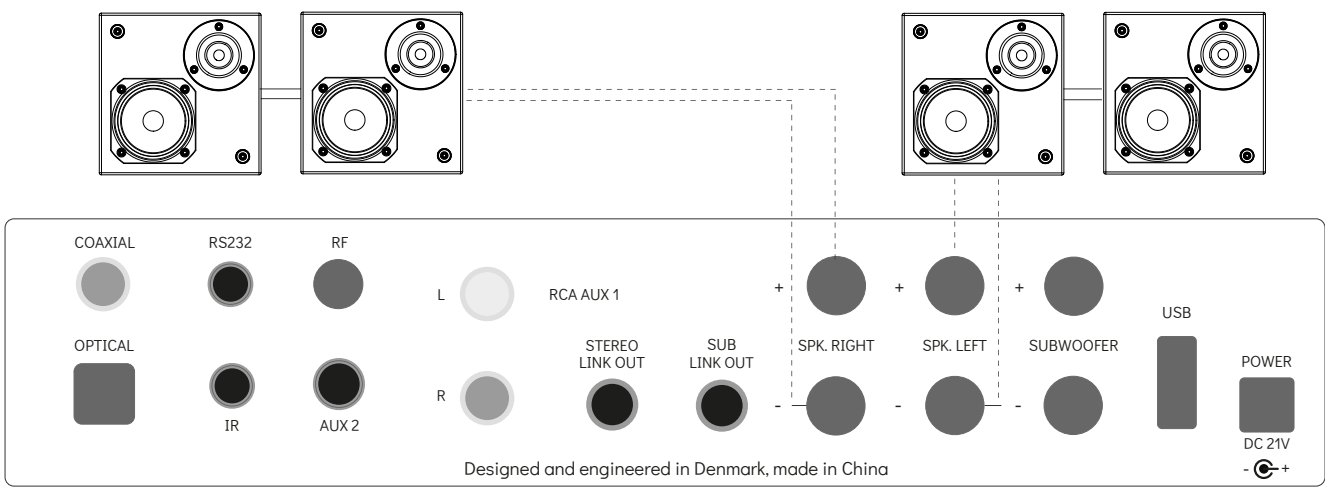


CONNECTIVITY

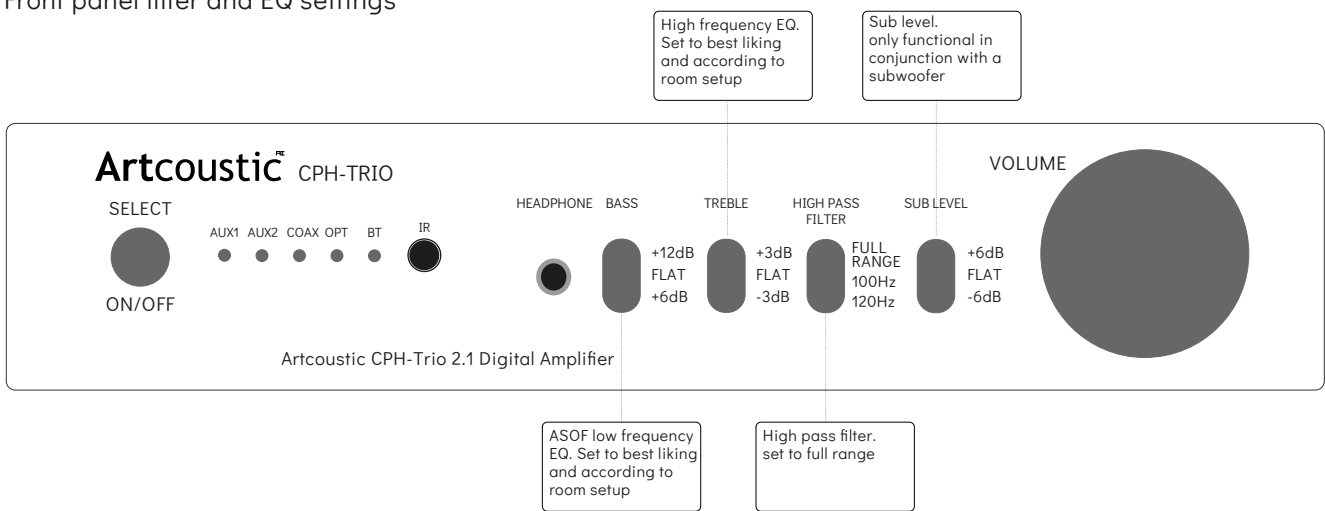
CONNECTING WITH FULL-RANGE SPEAKERS

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.

SL Target or SL Target Mini



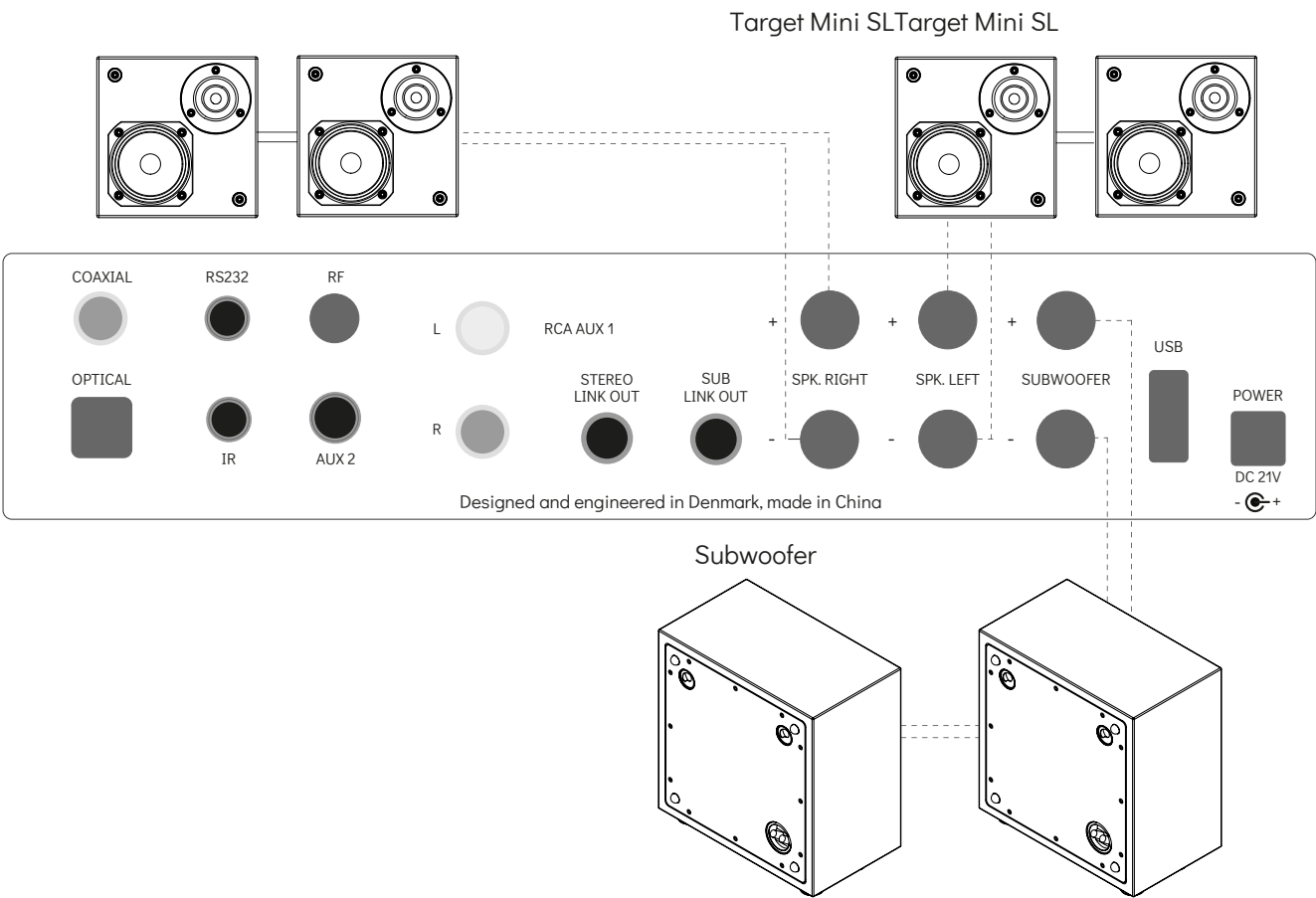
Front panel filter and EQ settings



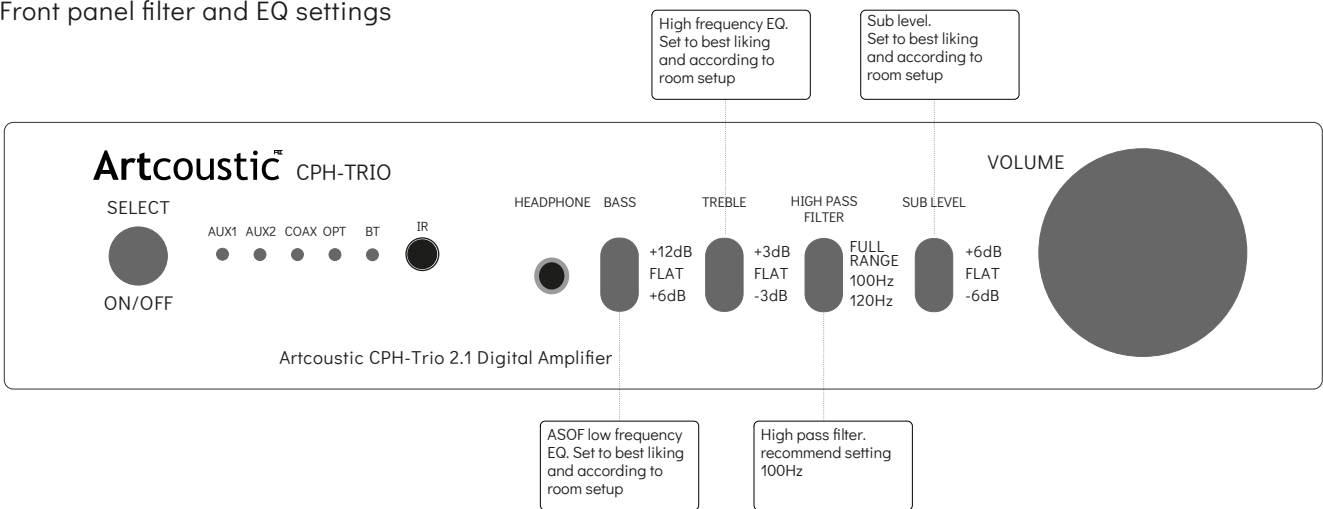
CONNECTIVITY

CONNECTING WITH SUBWOOFER AND SATTELITE 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.



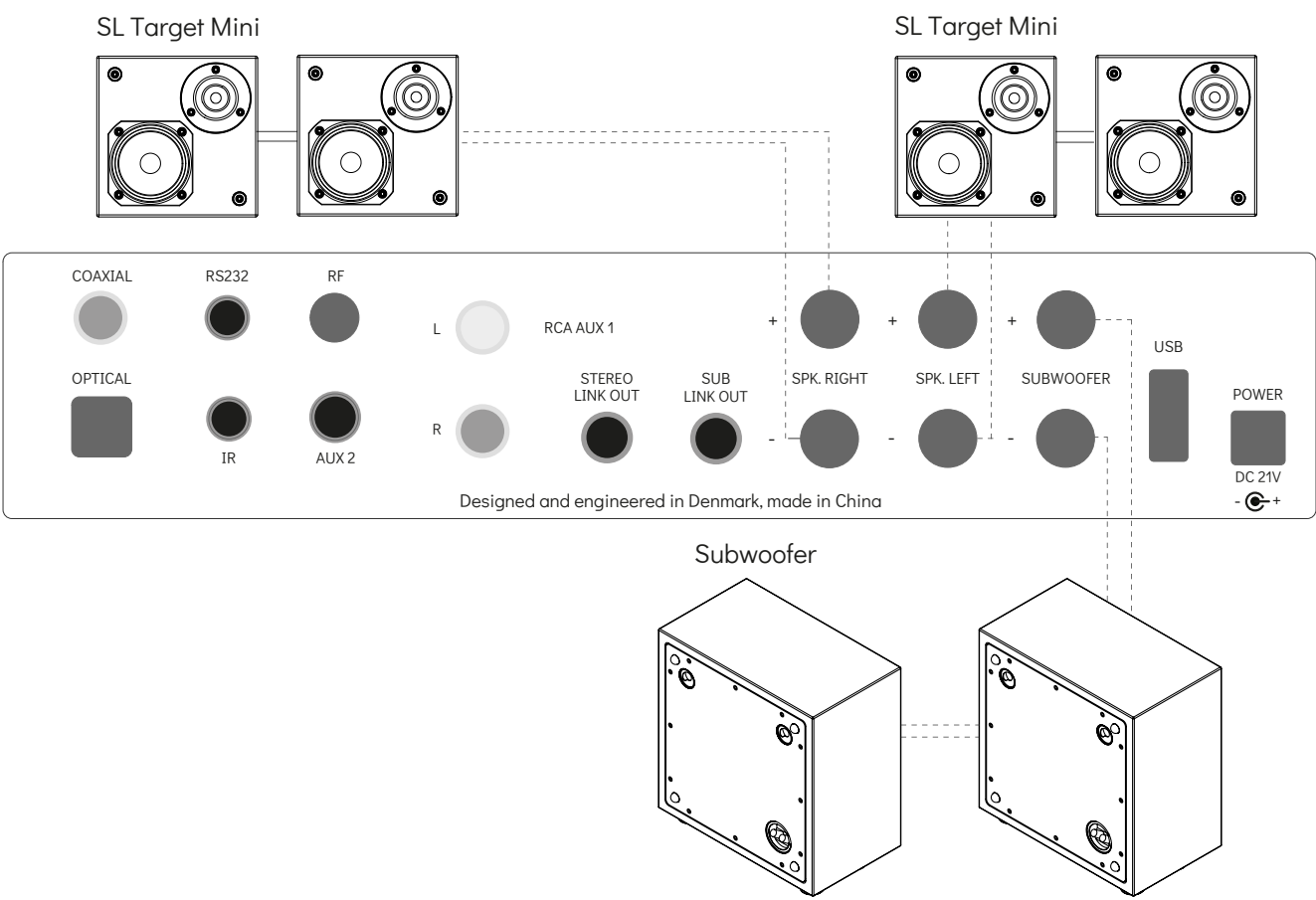
Front panel filter and EQ settings



CONNECTIVITY

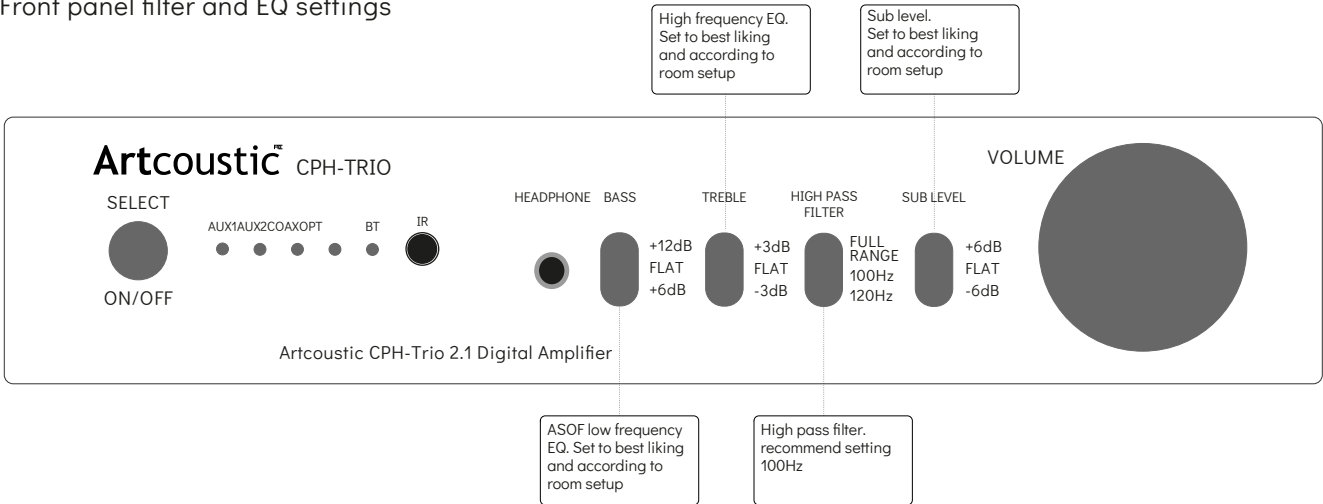
CONNECTING WITH SUBWOOFER AND SATTELITE SPEAKERS

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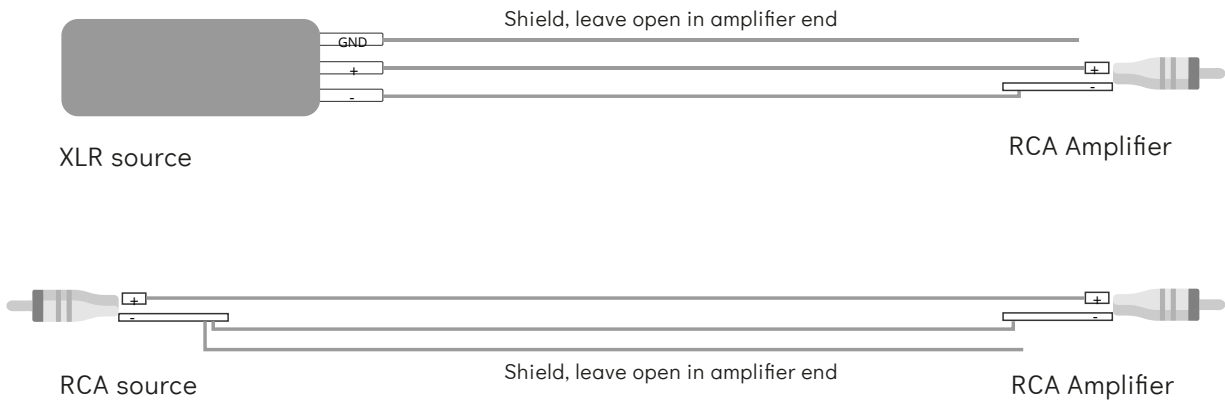
CONNECTIVITY

Front panel filter and EQ settings



SEMI BALANCED INTERCONNECTION

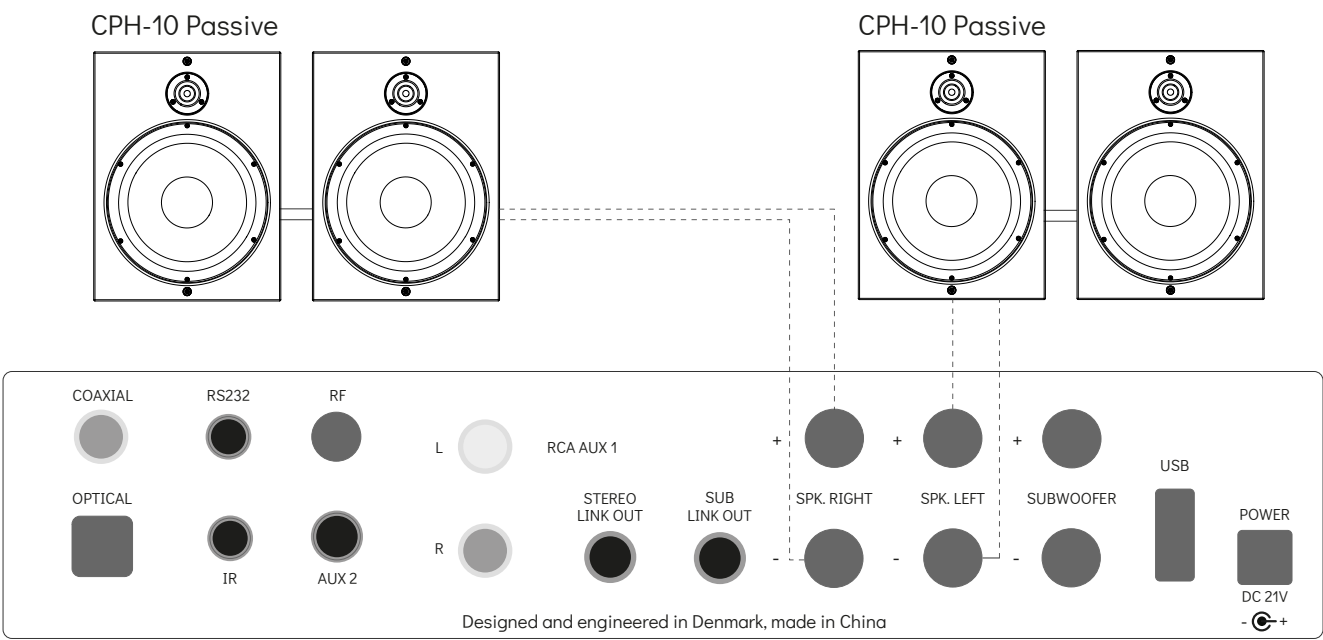
Use a two core and single shield interconnection cable, terminate shield in source end only, leave the shield open in receiving amplifier end.



SPECIFICATIONS

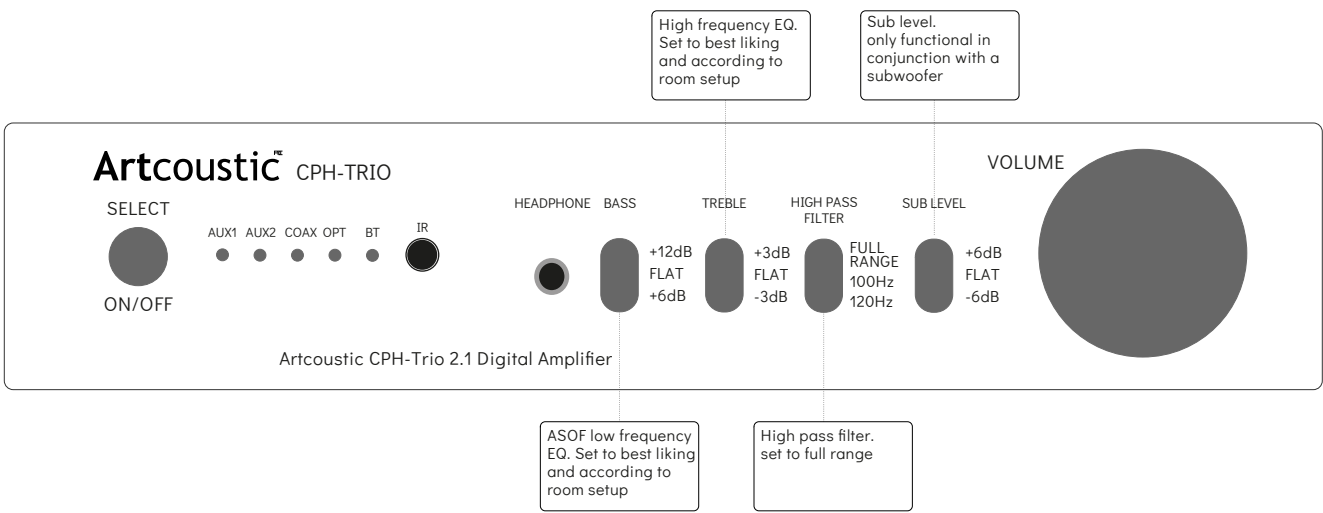
CONNECTING WITH FULL RANGE SPEAKERS

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.



CONNECTING WITH FULL RANGE SPEAKERS

Front panel filter and EQ settings



SAFETY INSTRUCTIONS

SAFETY



Do not use this product near water



Clean rear panel with dry cloth only



Do not block any ventilation opening



Do not install near any heat sources



If wall mounted, ensure the use of matching screws and rawl plugs

WARNING

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.

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



Do not place products filled with liquids such as vases on the product.



Do not open the product. There are no user-serviceable parts inside.



Always use the power supply shipped with this product, using a power supply with the wrong voltage or polarity, can damage the electronics.



WARRANTY

IS APPLICABLE



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



Is valid from the date of purchase for a period of 3-years for passive loudspeakers, and 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 NOT APPLICABLE

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 accidents, lightning, water, fire heat, war, public disturbances or any other cause beyond the reasonable control of Artcoustic and its pointed distributors.
- 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.

If it is found necessary to return the product for repair, you will be given a form to fill out and return. You should not return the product without previous acceptance. To validate your warranty, you will need to produce the original sales invoice or other proof of ownership and date of purchase.