



TRIANGLE



Mode d'emploi & Garantie
Owner's manual & Warranty

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USER MANUAL

ENGLISH

The TRIANGLE team thanks you for your trust.

For optimal use and perfect sound reproduction from your CAPELLA 2 system, we recommend that you read these instructions carefully.

CAPELLA 2 Sytem

Models concerned :

CAPELLA 2: TEA09_BL, TEA09_BU, TEA09_BW, TEA09_BX, TEA09_BY, TEA09_BZ, TEA09_CA

1. SETUP PRECAUTIONS / WARNING

SETUP PRECAUTIONS

BEFORE SETTING UP

Before making any connections, ensure that the speakers and Stereo Hub 2 are switched off. Always disconnect the mains power cables before removing or connecting any cables. Do not reconnect them until all connections have been completed.

MOVING THE SYSTEM Always disconnect the power cord and disconnect the connection cables between all other components when moving the device. This is to prevent short circuits or damage to the sockets or connection cables.

BEFORE TURNING ON THE DEVICE

Check one last time that all connections are correct.

LOCATIONS TO AVOID

Avoid placing your speakers near damp areas or areas exposed to excessive sunlight; choose a temperate location.

RECYCLING Environmental protection: your products contain many valuable or recyclable materials. Please use collection points for these products.



WARNING

Use the product in an environment with a temperature between -10°C and 40°C, otherwise it could damage your product.

For the following device :

Product name: CAPELLA 2

Brand: TRIANGLE

TRIANGLE Hi-Fi (Email : capella@trianglehifi.com) declares that this CAPELLA product,
Models: CAPELLA 2 : TEA09_BL, TEA09_BU, TEA09_BW, TEA09_BX, TEA09_BY, TEA09_BZ, TEA09_CA

Tested in accordance with the Radio Equipment Regulations 2017 (SI 2017 No. 1206, as amended by SI 2019 No. 696).



The full text of the UK declaration of conformity is available at this web address:
<https://www.trianglehifi.fr/pages/declaration-conformite-uk>

RF distance between the body and the product is 0mm.

Bluetooth version: Bluetooth V5.2 (Only EDR)

Frequency range: 433MHz

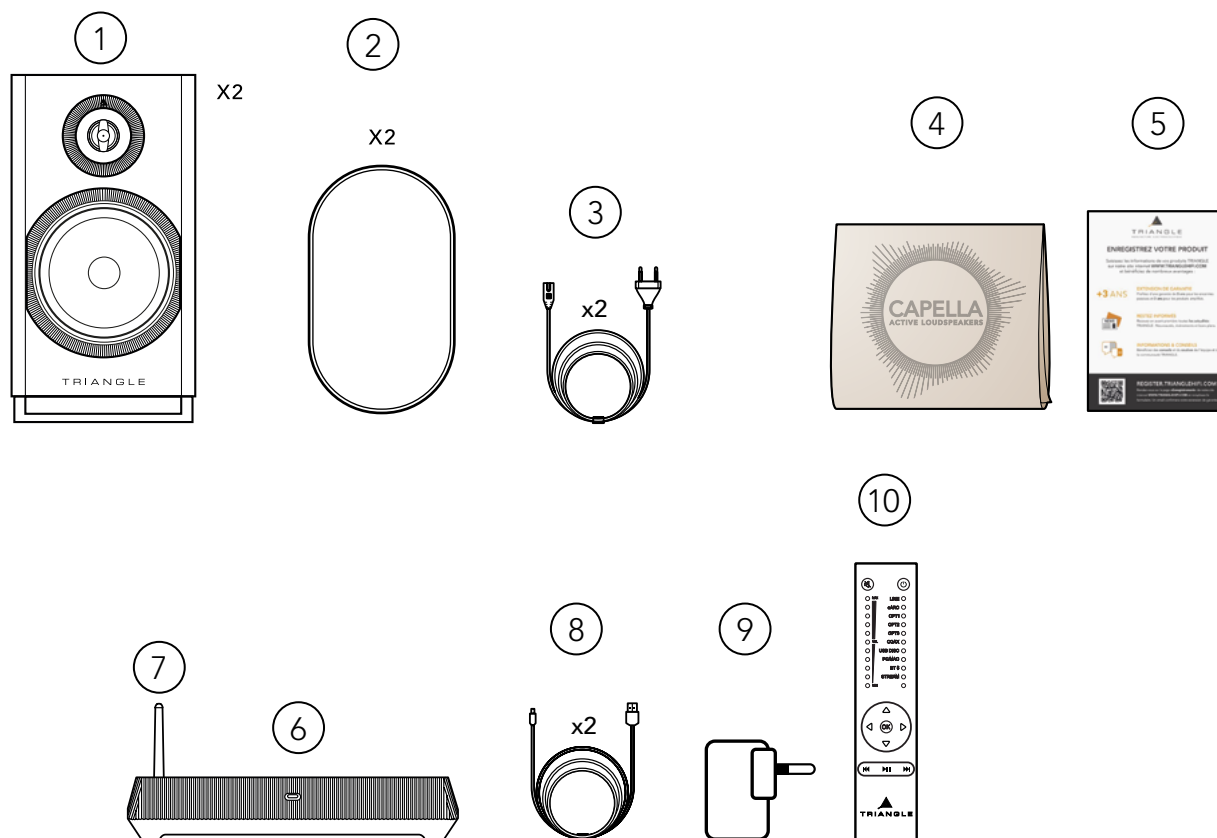
Maximum RF output power <0dbm: 4dBm (EIRP)

Supports 2.4GHz & 5GHz

2. UNPACKING

Remove the speakers, grilles and accessory box from the packaging. If you notice any defects in any of the items, contact your retailer.

Before disposing of the packaging*, check that nothing has been left inside.



Contenu :

1. 2 x CAPELLA 2 speakers.
2. 2 x Magnetic protective masks.
3. 2 x Power cables for the speakers.
4. 1 x Cleaning cloth for your speakers.
5. 1 x Registration card.
6. 1 x Stereo Hub 2.
7. 1 x Wi-Fi antenna for the Stereo Hub 2.
8. 2 x USB-A to USB-C cables.
9. 1 x USB adapter with regional plugs.
10. 1 x USB-C rechargeable remote control.

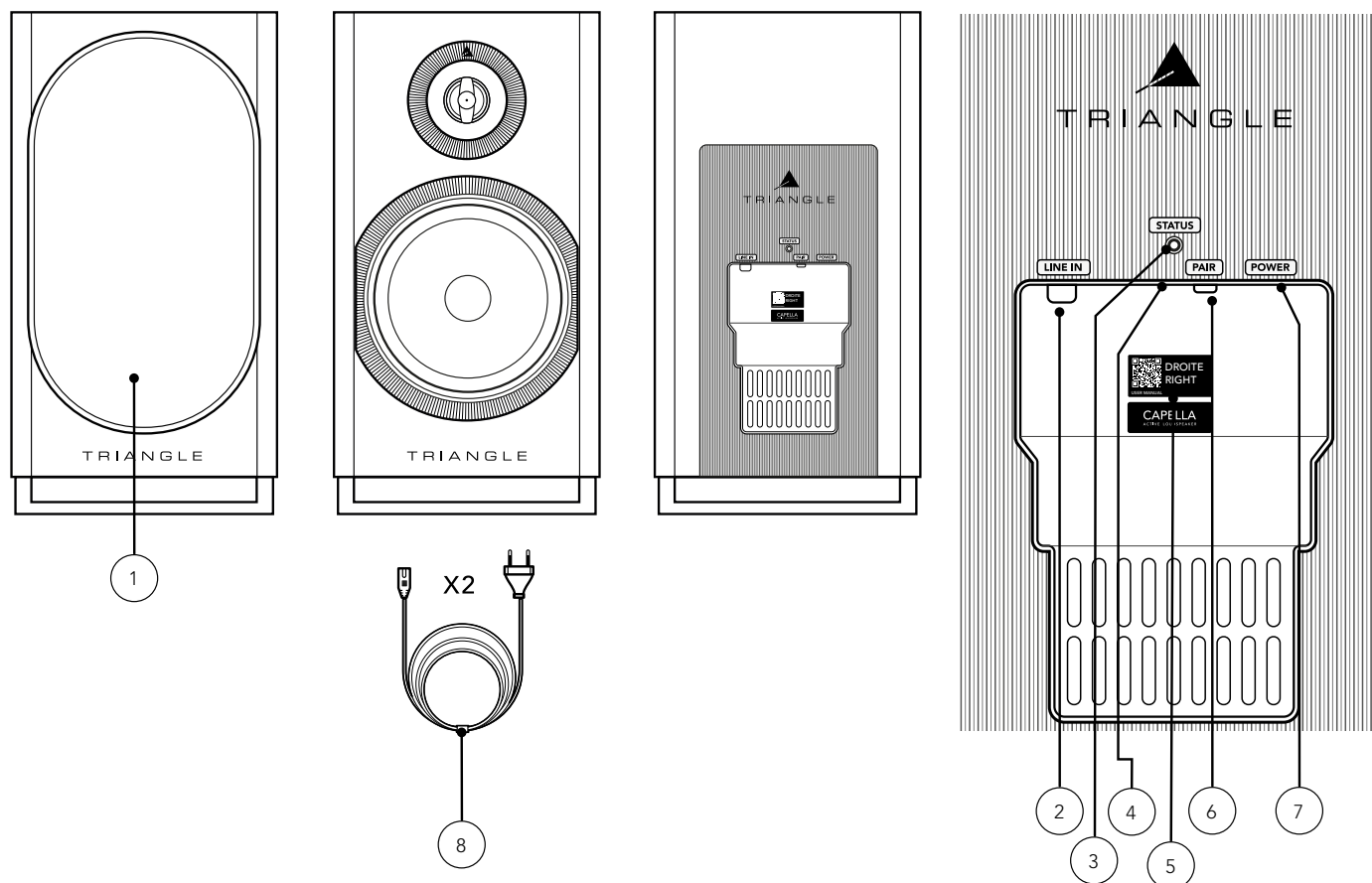


* KEEP THE ORIGINAL PACKAGING

If you require assistance or wish to return your product, please send it in its original packaging with all accessories. In the event of damage due to alternative packaging, your retailer cannot guarantee that the product will be accepted.

3. DESCRIPTION OF THE SPEAKERS

The CAPELLA 2 active speakers each have their own built-in amplifier (2 x 50 watts per speaker). They can receive music from any WiSA transmitter at a resolution of 24-bit/96 kHz.



1. Magnetic protective mask* (1 pair).
2. RCA (left or right depending on speaker assignment).
3. Status Indicator LED:
 - Blue: Start-up sequence.
 - Flashing orange: WiSA pairing.
 - Solid orange: Speaker connected to the Stereo Hub or another WiSA source.
 - Red: Standby mode.
 - Green: A pre-amplified source is connected to the RCA socket.
4. Service input (only for updates)
6. Left or right speaker sticker and QR code to access the user manual.
7. Pairing button:
 - Press and hold for 4 seconds: Pair the speaker with the Stereo Hub 2 or another WiSA source.
 - Press and hold for 10 seconds: Reset the speaker.
8. Power connector.



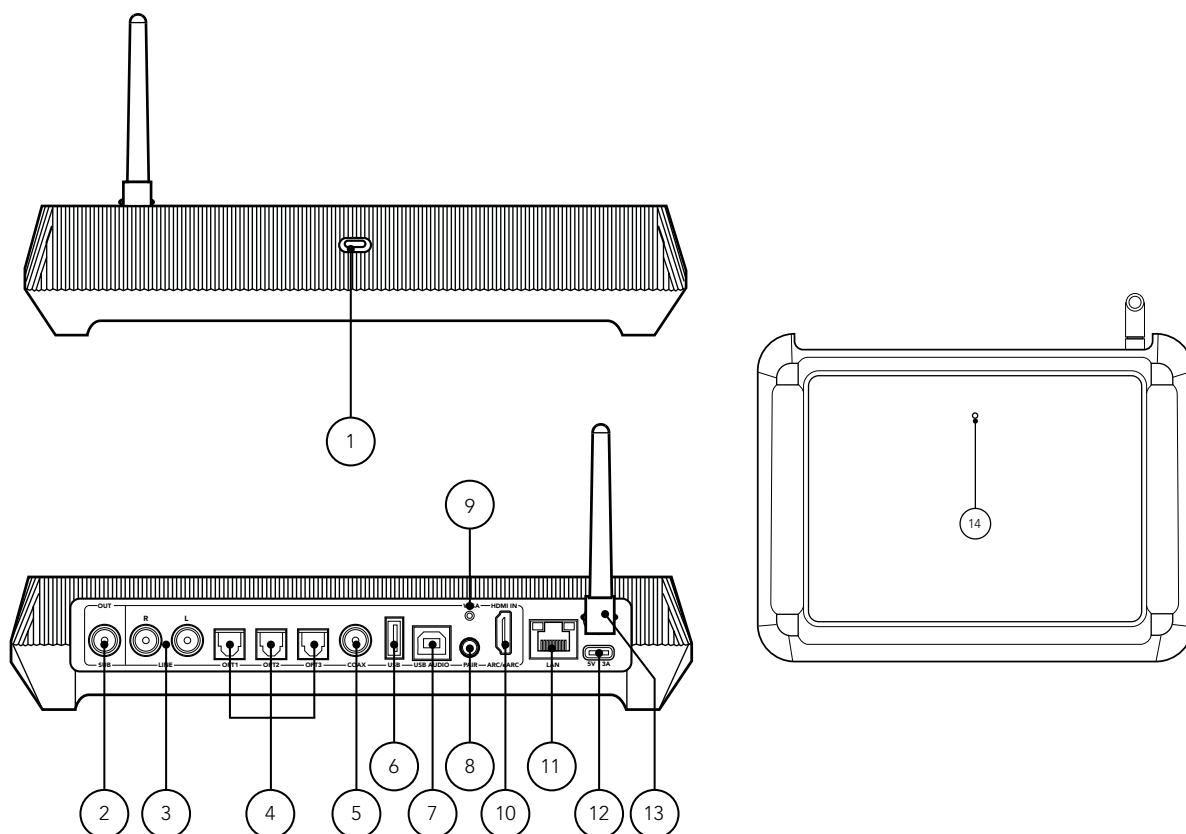
* TIP

For optimal use and perfect sound reproduction, it is recommended that you remove the magnetic masks when listening.

4. DESCRIPTION OF THE STEREO HUB 2

The Stereo Hub 2 handles the reception and transmission of the audio signal to the speakers.

Featuring WiSA wireless technology, it enables high-resolution transmission from your source to your speakers with no perceptible latency. A true Hi-Fi preamplifier, connect multiple sources to the rear of the unit, or enjoy its streaming capabilities thanks to its compatibility with Google Cast / Apple AirPlay 2 / Spotify Connect / Tidal Connect / Qobuz Connect / Roon Ready / DLNA / Bluetooth.



1. Wi-Fi indicator LED:
 - **Solid white LED:** Connected to the network.
 - **Slow flashing white LED:** Boot sequence.
 - **Fast flashing white LED:** Wi-Fi setup mode.
 - **Irregular flashing white LED:** Software update.
 - **Solid green LED:** Connected to Spotify Connect.
2. Subwoofer output.
3. Analog line input.
4. 3 x Optical inputs.
5. Coaxial digital input.
6. USB drive input / Remote control charging.
7. USB-B input for PC/Mac.
8. Pairing button:
 - Single press: WiSA pairing mode.
 - Press and hold for 4 seconds: Remote control pairing mode.
9. WiSA indicator LED:
 - Solid white LED: Stereo Hub 2 is paired with CAPELLA 2 speakers.
 - Slow flashing white LED: WiSA pairing mode.
 - Fast flashing white LED: Remote control pairing mode.
10. HDMI input (eARC + CEC compatible).
11. Ethernet port.
12. USB-C power connector.
13. Wi-Fi antenna connector.
14. Factory reset button.

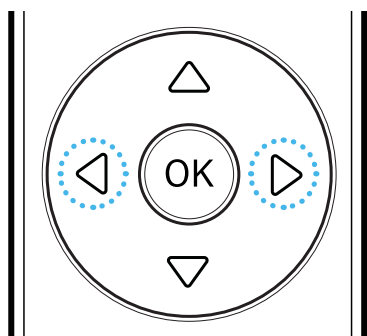
4. DESCRIPTION OF THE STEREO HUB 2 (NEXT)

AUTOMATIC SOURCE SELECTION

The Stereo Hub 2 detects the signal from a connected source and automatically switches to or wakes up from standby on the relevant input. The priority order will be :

- Streaming
- Bluetooth
- HDMI
- USB disk
- USB PC/MAC, Coaxial, Optical, LINE

It is also possible to select the input manually using the «left» and «right» navigation buttons on the remote control.



AUTOMATIC STANDBY

The Stereo Hub 2 automatically goes into standby mode after 20 minutes without receiving any signal. It will automatically turn back on when it receives a signal again. Powering on takes approximately 8 seconds.

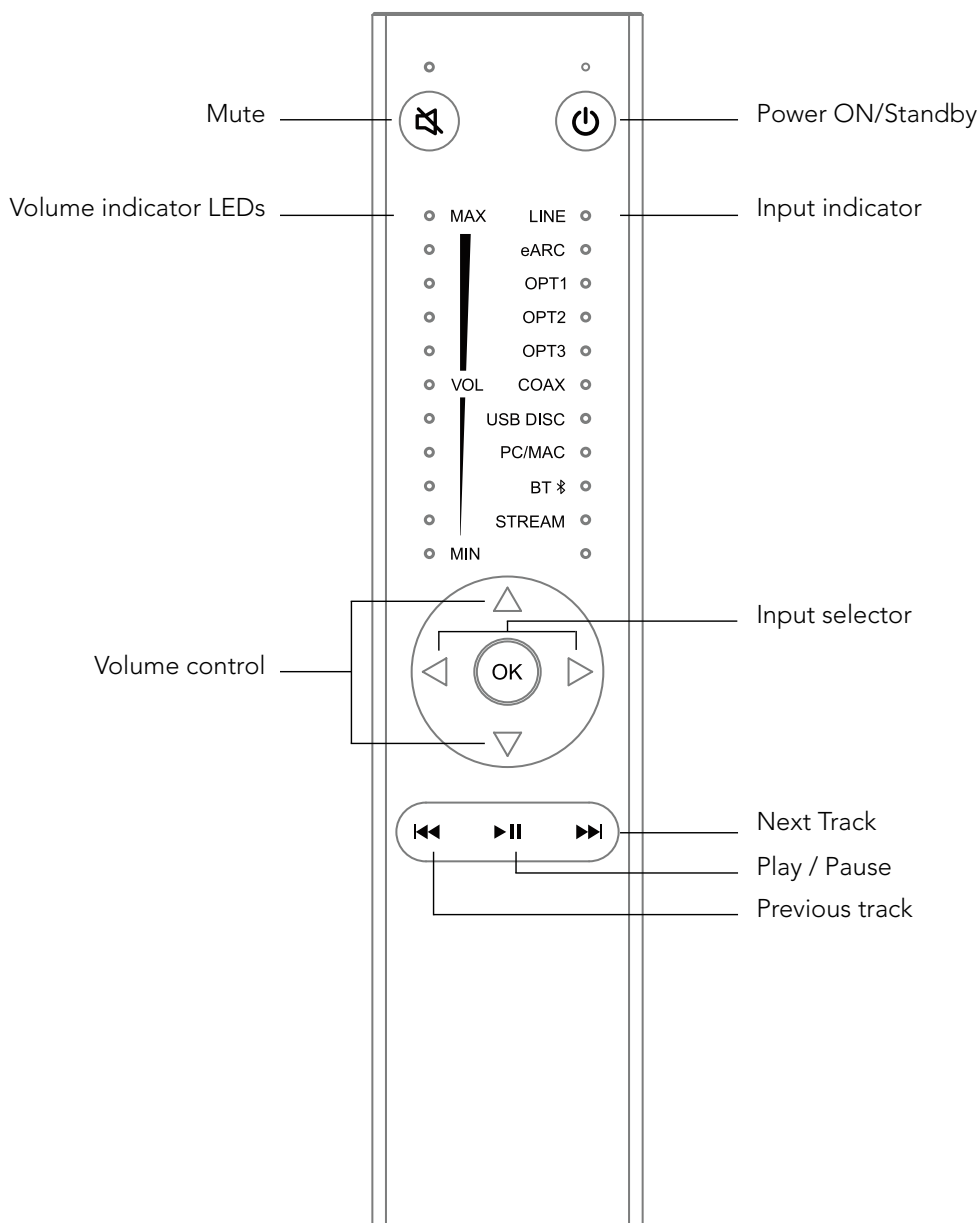
This function can be configured via the CAPELLA app.

Note: When using Optical/RCA/Coaxial/Auxiliary or USB sources, the device will resume from standby to the same source that was used when it went into standby.

5. DESCRIPTION OF THE REMOTE CONTROL

The remote control supplied with your CAPELLA 2 system operates via radio frequency. You do not need to point it at the Stereo Hub 2 to control it. It has a range of up to 15 metres, even through obstacles. Equipped with a motion sensor, you can visually check the volume level and the selected source.

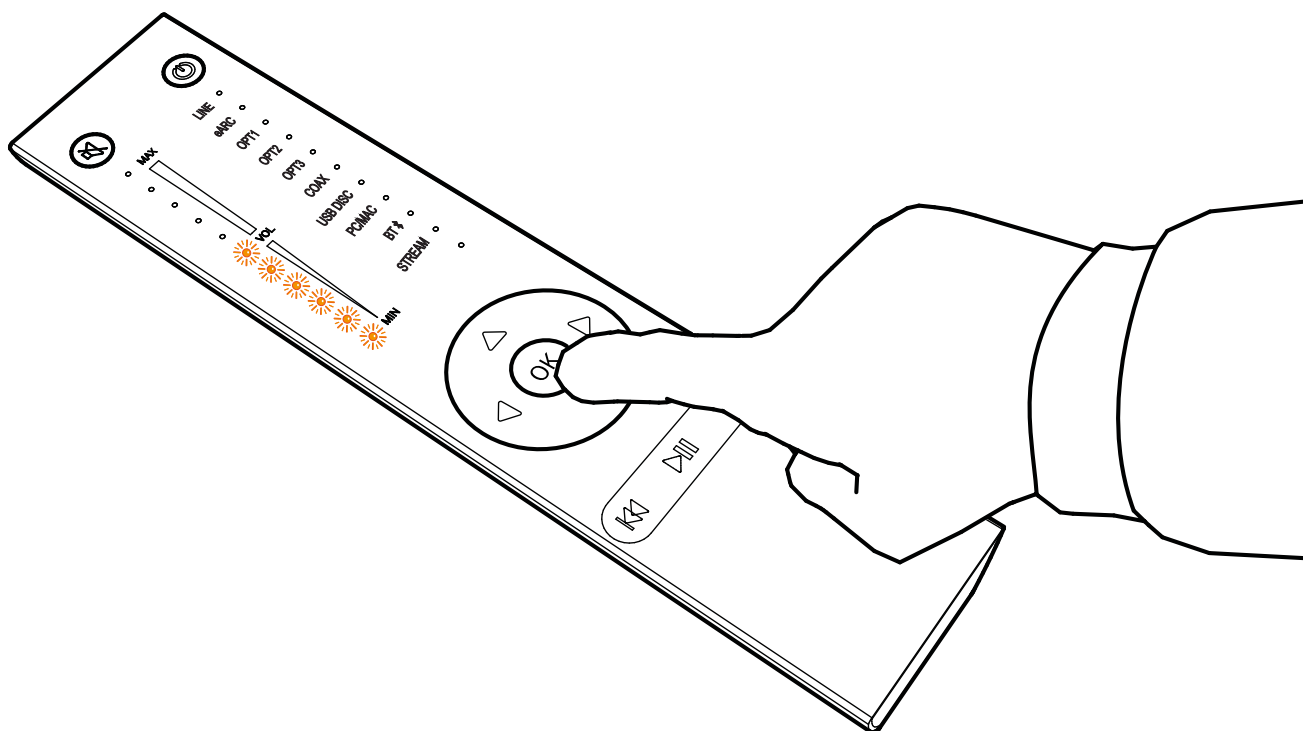
PAIRING THE REMOTE CONTROL: Refer to step 7.C or 9.B depending on the method used.



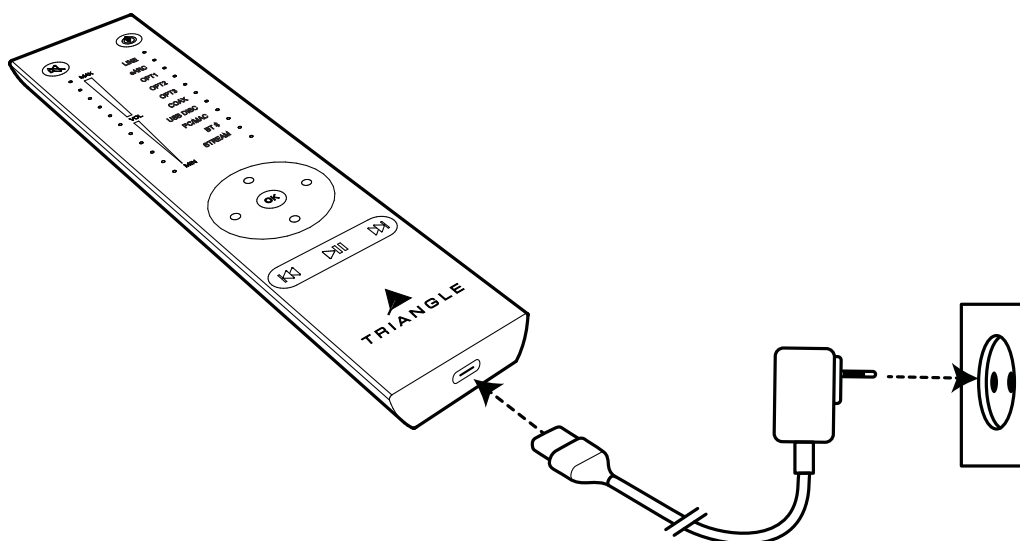
- **Bluetooth visibility:** You can choose whether or not to enable Bluetooth visibility. To do this, press and hold the «» button for 3 seconds to disable it, or press and hold the «» button for 3 seconds to enable it.
- **Set a fixed volume per input:** Select the input of your choice, set the desired maximum volume using the remote control, then press «» to confirm the fixed volume level for that source
- **Unpair the remote control:** Press and hold «» and «» for 5 seconds to unpair your remote control.

5. DESCRIPTION OF THE REMOTE CONTROL (NEXT)

Your CAPELLA 2 remote control has a built-in battery. You can check the battery charge level by pressing and holding the 'OK' button for 5 seconds; the LEDs on the left will indicate the battery charge level.



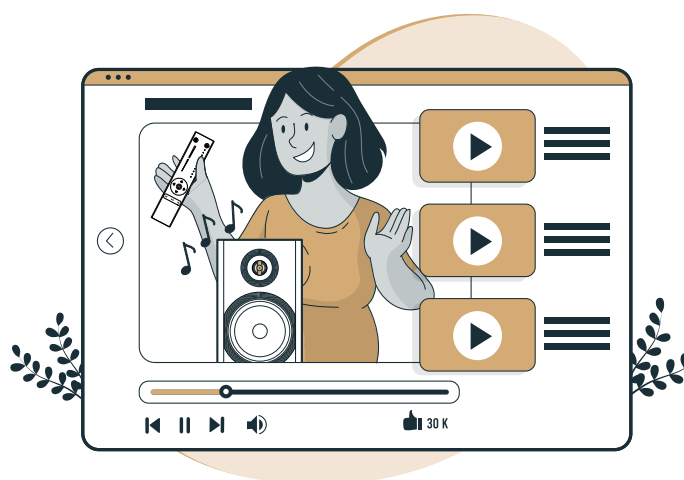
You can charge your remote control at any time by connecting it using the USB-C cable provided.



6. INITIAL SYSTEM SETUP

To set your CAPELLA 2 system up easier, it has already been pre-configured.
We have paired your remote control and speakers for you.

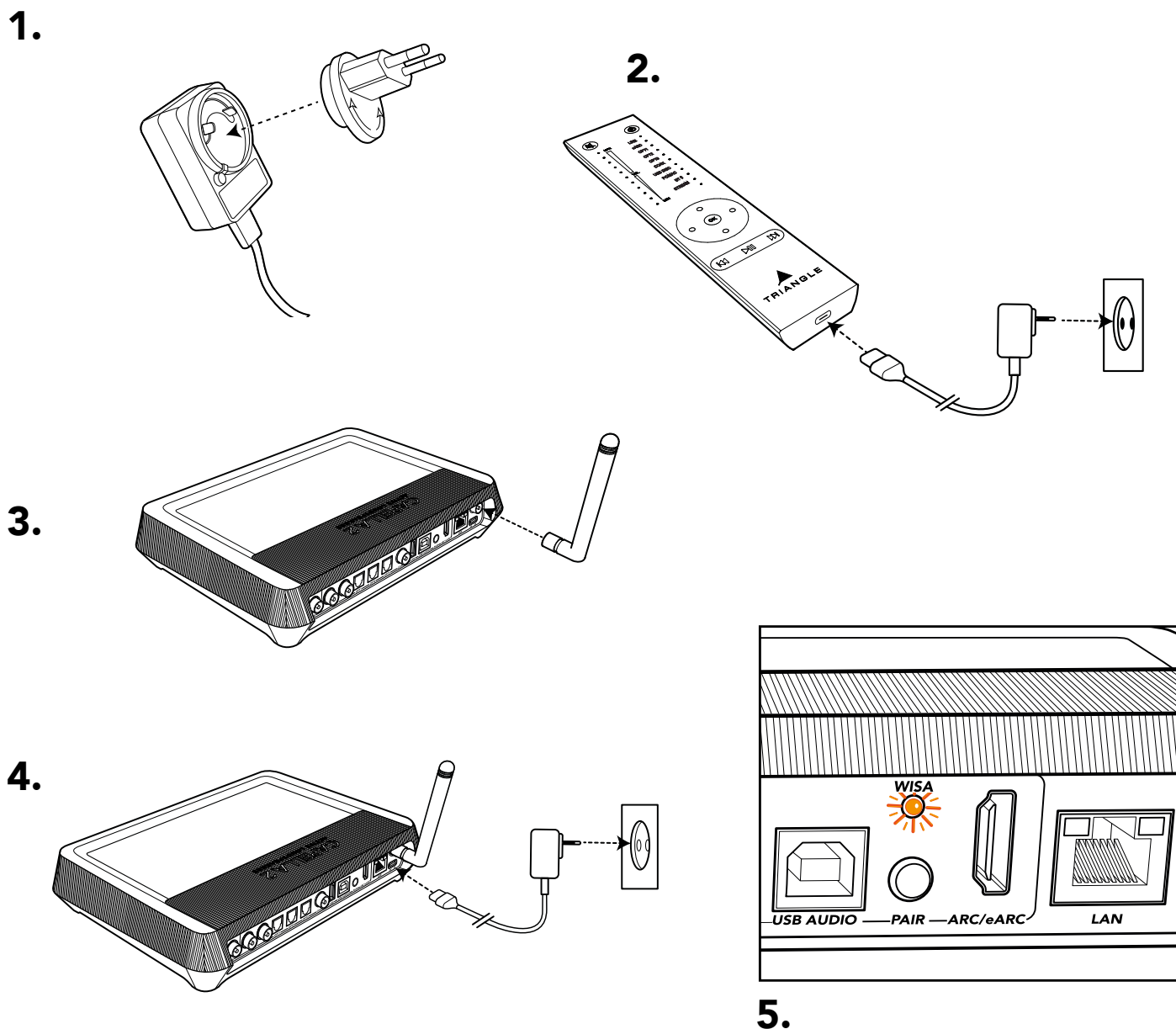
(If you have to reset your system to its factory settings, please go straight to step 7.0)



To help you, a video showing each step of the installation process is available by scanning the QR code below:



6.A SETTING UP THE STEREO HUB 2: INITIAL SETUP



1. Choose the plug that matches your wall outlet.

2. Check that your remote control has sufficient battery power. If necessary, recharge it using the USB-C cable provided.

3. Screw the antenna onto the Stereo Hub if you prefer a Wi-Fi connection.

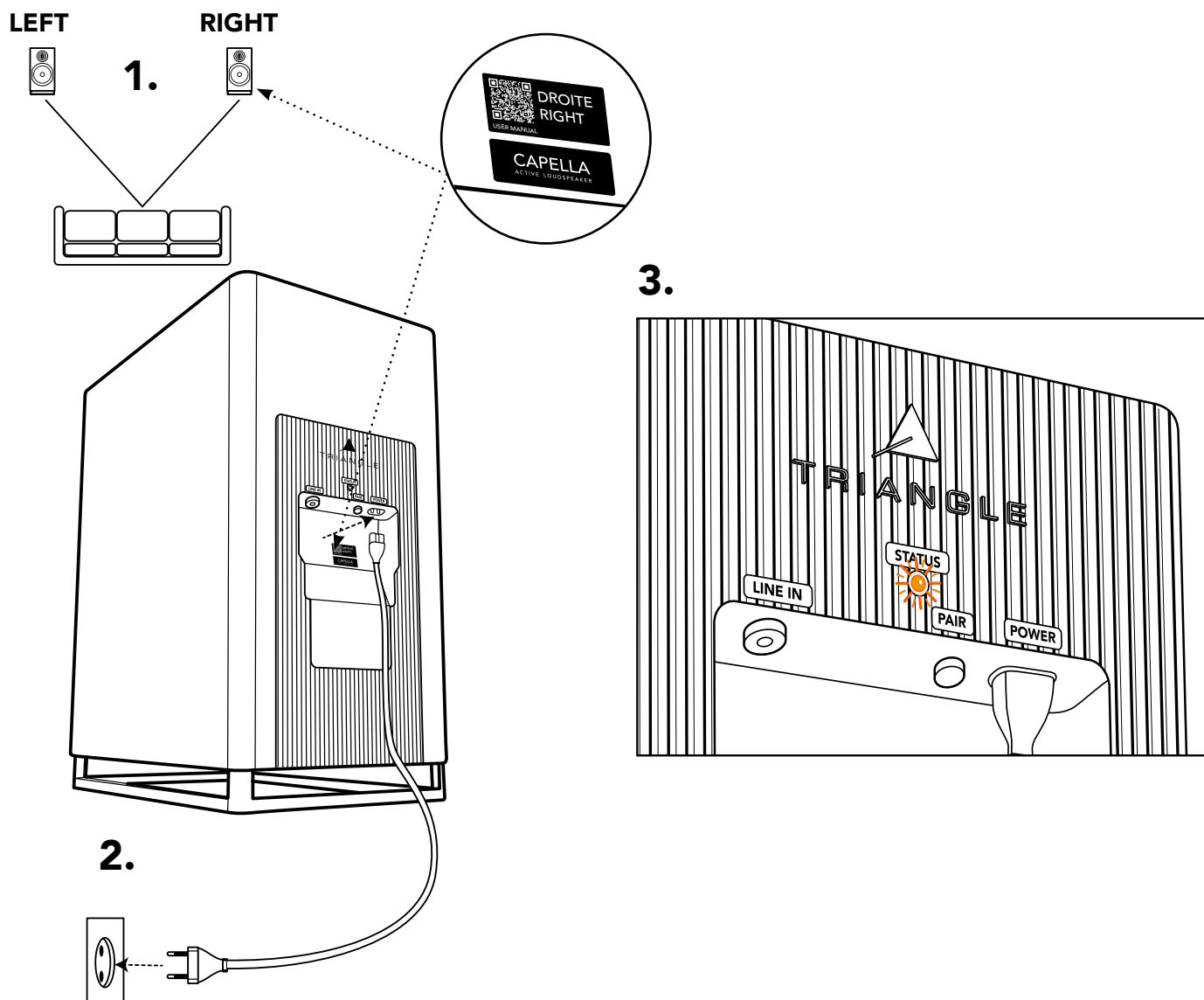
4. Connect the power cable from your Stereo Hub 2 to a power outlet.

5. The Stereo Hub 2 is starting its boot sequence. Please wait until this process is complete. It proceeds as follows:

- The WiSA LED remains off for 50 seconds, then flashes for 20 seconds before going off again;
- When the WiSA LED goes off, this confirms that the boot sequence is complete.

6. The WiSA LED on the Stereo Hub 2 should flash every time you press a button on the remote control. Run a test to check that the devices are paired correctly.

6.B SETTING UP THE SPEAKERS



1. Check the label on the back of your speakers to determine whether they should be placed to the left or right of your listening position.

2. Connect your speakers to the mains using the power cables provided.

3. Wait until the STATUS LED lights up in solid orange, confirming that the start-up sequence is complete and that your speakers have been paired with the Stereo Hub 2.

4. Your system is now set up, and you can now enjoy the Bluetooth* source or any other wired source connected to the Stereo Hub 2.

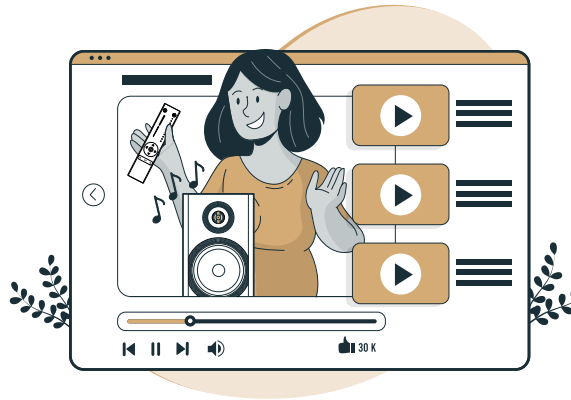
However, for the best listening experience, we recommend connecting your Stereo Hub 2 to the network and then installing the TRIANGLE CAPELLA app to take advantage of all the available settings and acoustic adjustments.

Please proceed to step 8.0.

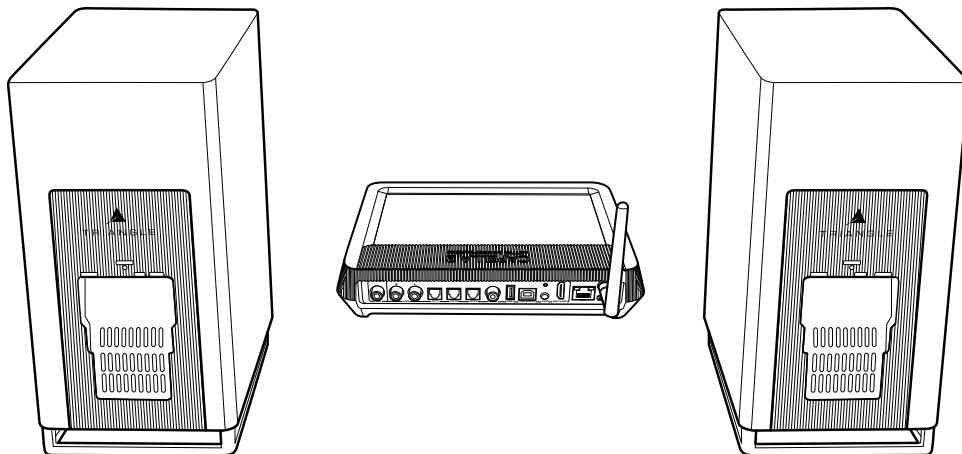
** See step 10.B for Bluetooth setup*

7. STARTING THE SYSTEM AFTER A RESET

Resetting your CAPELLA 2 system requires a complete reconfiguration; please follow the steps below carefully.



To help you, a video showing each step of the installation process is available by scanning the QR code below:



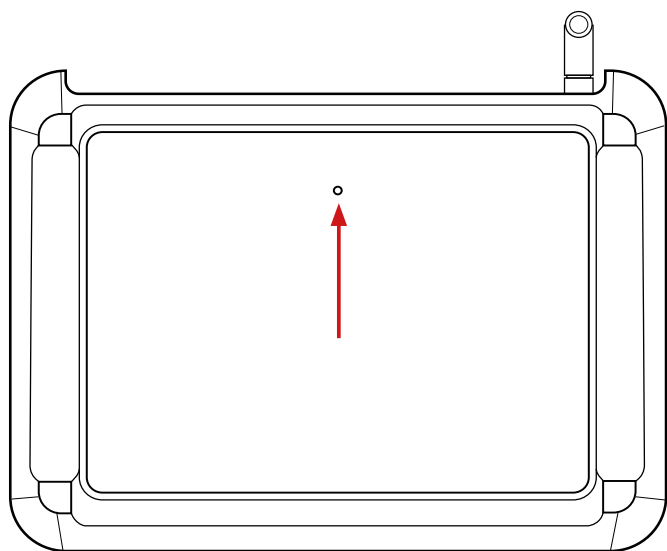
To make installation easier, we recommend placing your Stereo Hub 2 and speakers facing you, as shown in the image above.

7.A RESETTING YOUR SYSTEM

You may need to reset your system. To do so, follow the procedure below.

The Stereo Hub 2 needs to be reset; there are two ways to do this: with or without the CAPELLA app:

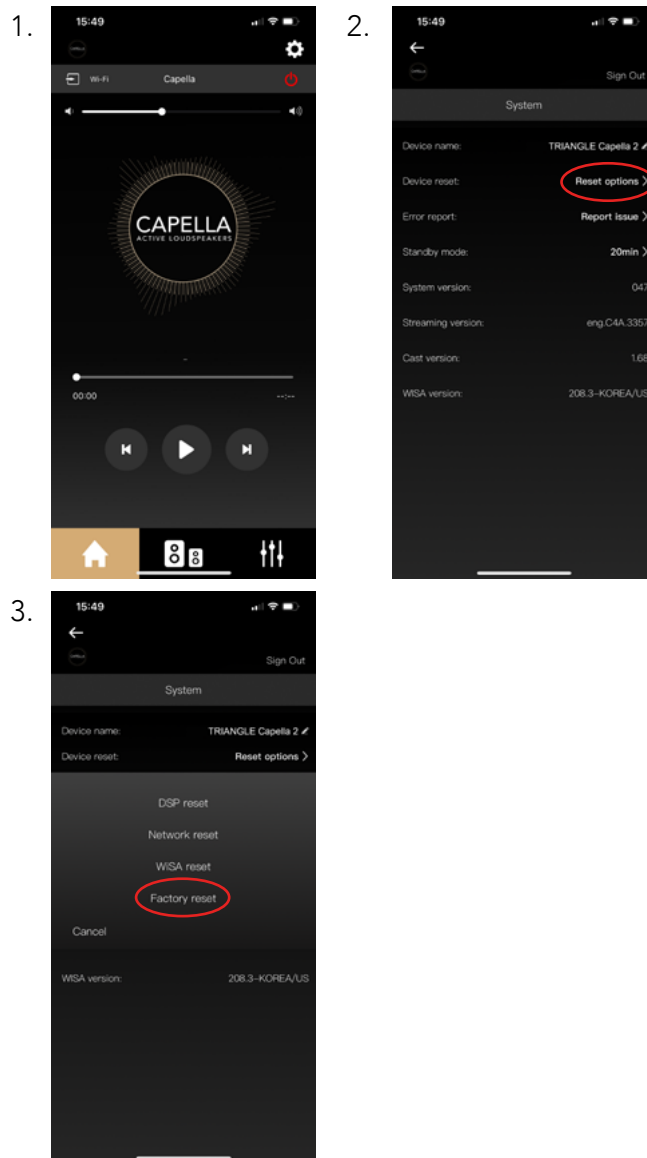
Option A (without Capella app)



Option A: (Without the app)

Use a paperclip or a thin, rigid pin, insert it into the hole just below the reset button, and press briefly.

Option B (using the Capella app)



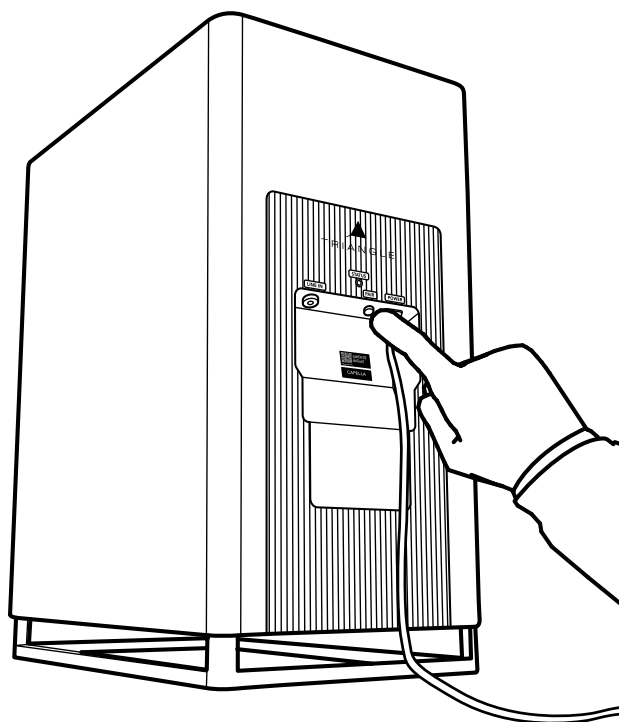
Option B: (With the app)

1. In the CAPELLA app, open the app settings.
2. Select « Reset option ».
3. Then tap « Factory reset ».



The Stereo Hub 2 will restart, resetting the Wi-Fi connection, the remote control pairing and the WiSA connection for your speakers.

7.A RESETTING YOUR SYSTEM (NEXT)



After resetting your Stereo Hub 2 (factory reset), your speakers will flash rapidly, indicating that the reset was successful.

If this is not the case, there is another method for resetting your speakers. Press and hold the 'PAIR' button on the back of each speaker for at least 10 seconds. Your speakers will then start flashing rapidly.

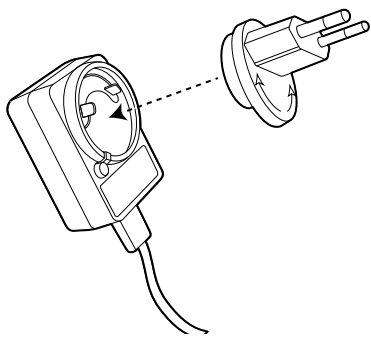
Your system is now reset. Follow the instructions below to set it up again.



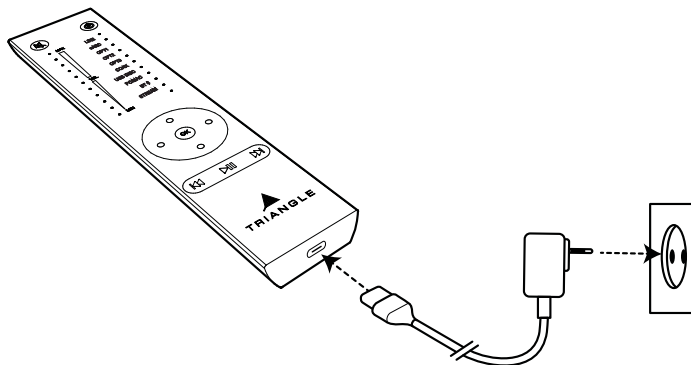
Nous vous recommandons de débrancher l'alimentation électrique de votre Stéréo Hub 2 et de vos enceintes, puis de suivre attentivement les instructions ci-dessous pour réinstaller complètement le système.

7.B SETTING UP THE STEREO HUB

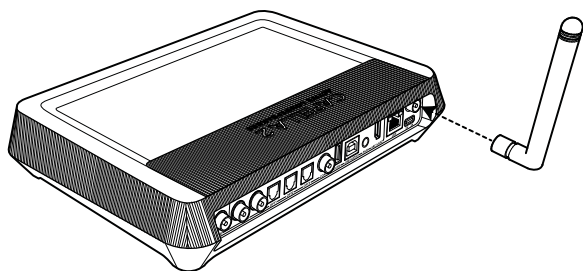
1.



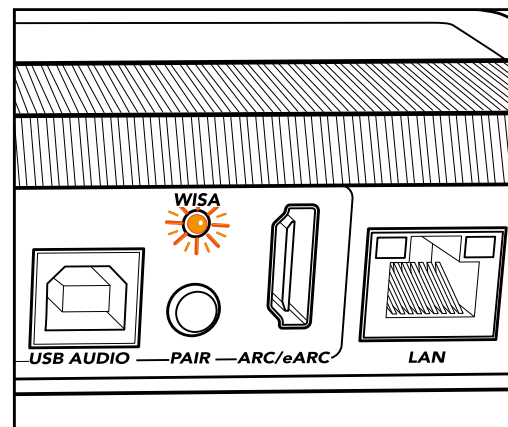
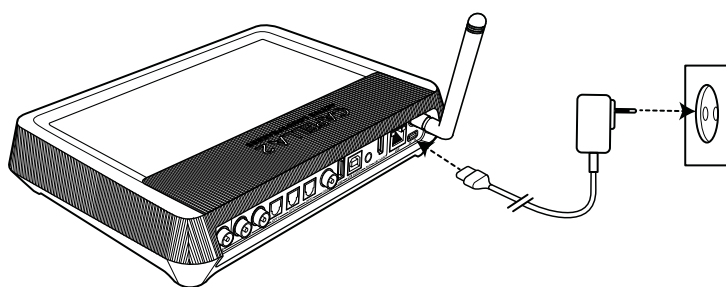
2.



3.



4.



5.

1. Choose the plug that matches your wall outlet.

2. Check that your remote control has sufficient battery power. If necessary, recharge it using the USB-C cable provided.

3. Screw the antenna onto the Stereo Hub 2 if you prefer a Wi-Fi connection.

4. Connect the power cable from your Stereo Hub 2 to a power outlet.

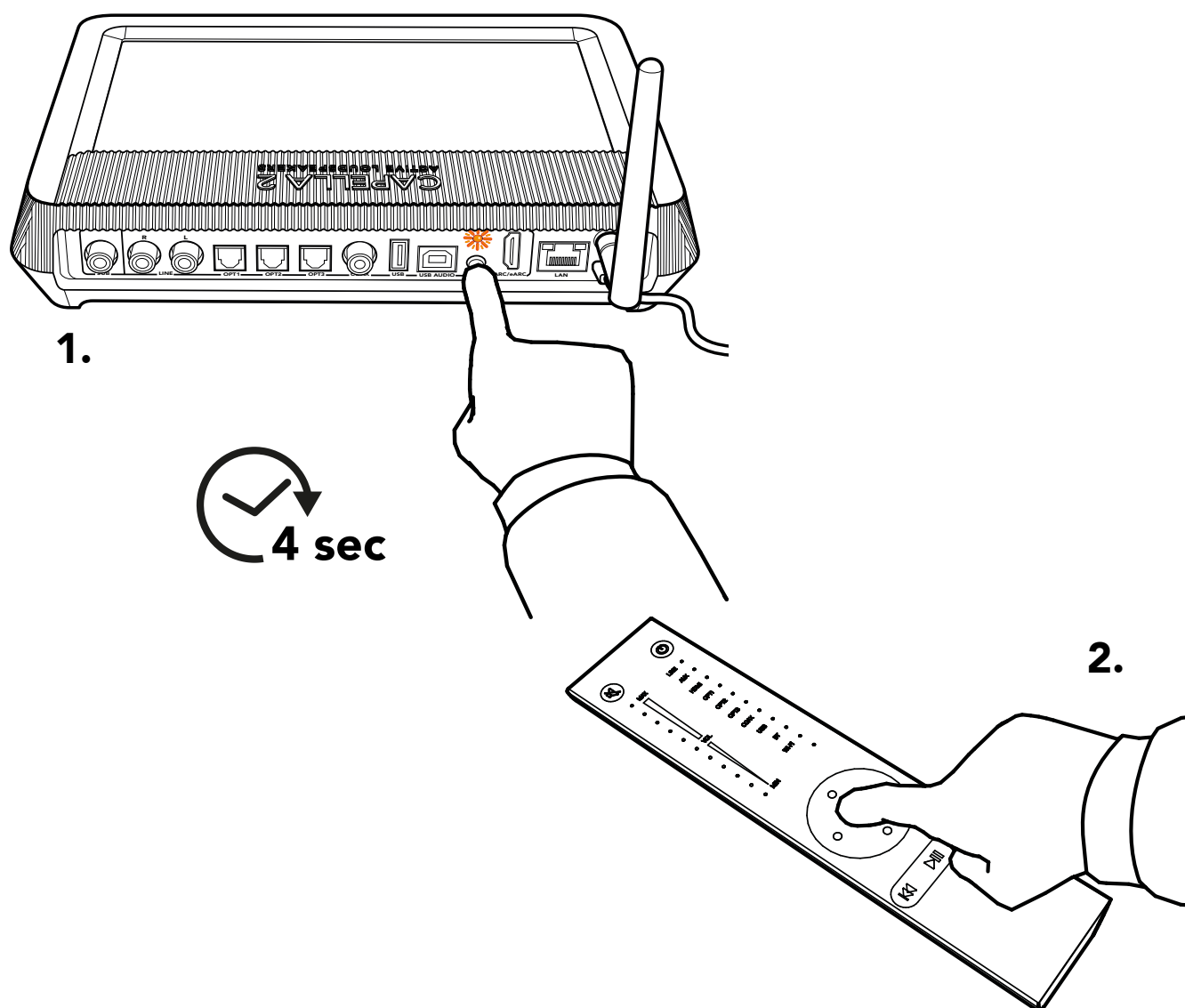
5. The Stereo Hub 2 begins its start-up sequence. Please wait until the sequence has finished.

The sequence proceeds as follows: the WiSA LED remains off for 50 seconds, then flashes for 20 seconds before going off again. When the WiSA LED goes off, this confirms that the start-up sequence has finished.



Do not connect the speaker power cables just yet.

7.C PAIRING THE REMOTE CONTROL



1. Press and hold the « PAIR » button on the back of the Stereo Hub 2 until the WiSA LED starts flashing rapidly. Release the button as soon as it starts flashing.

2. Then press any button on the remote control and wait for the WiSA LED to stop flashing. Your remote control and Stereo Hub 2 are now paired.

Pairing is confirmed by the WiSA LED flashing each time a button on the remote control is pressed.

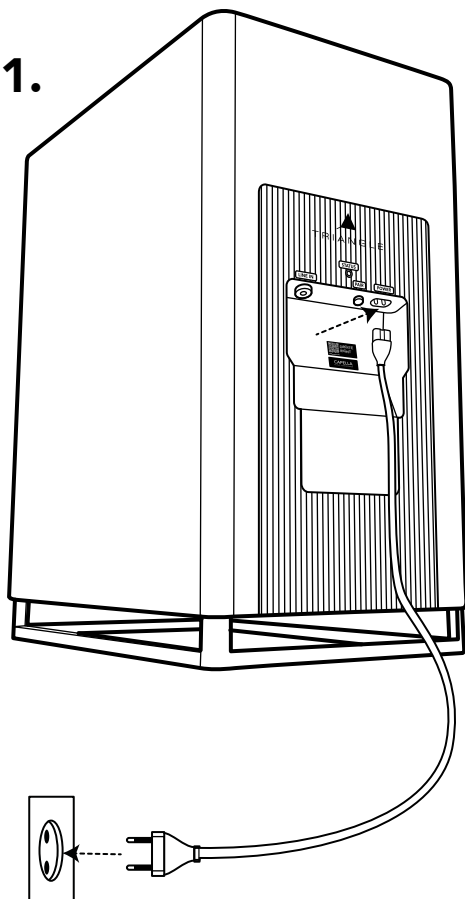


You can also pair the remote control via the CAPELLA app; see step 9.B.

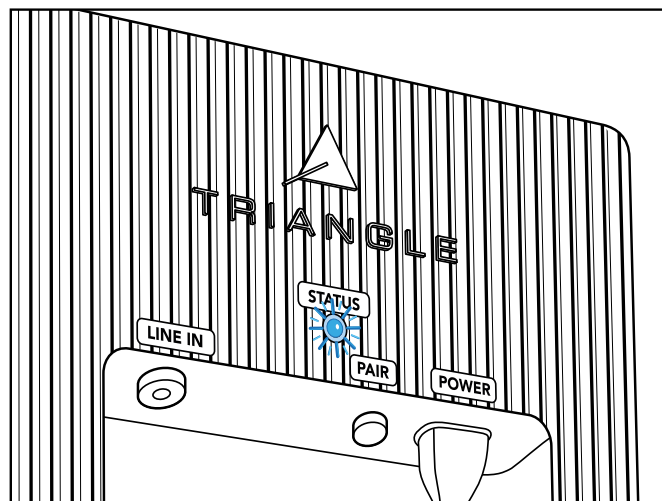
If the light is flashing slowly or pairing has failed, disconnect the power cable and return to step 7.B.4

7.D PAIRING THE SPEAKERS

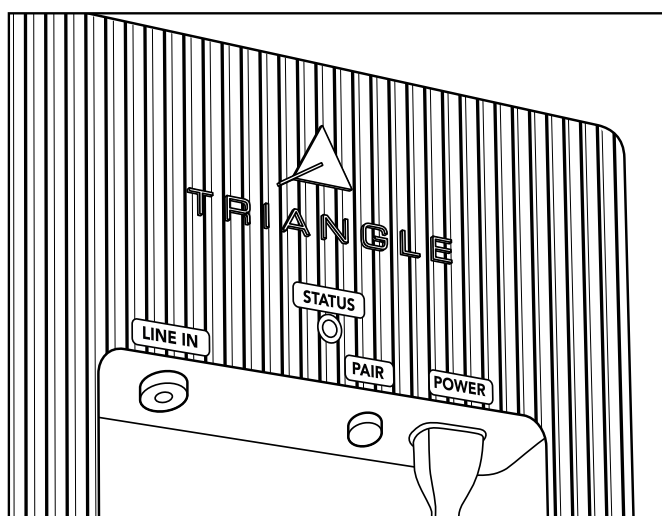
1.



2.



3.



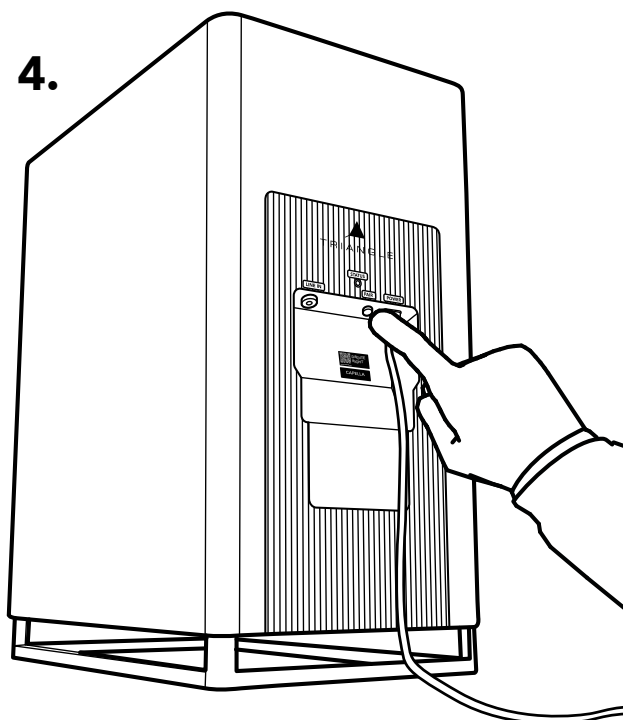
1. Connect your speakers using the power cables provided.

2. The speaker's start-up sequence begins. The STATUS LED follows this sequence: it flashes orange very rapidly, then glows blue for a few moments before going out again.

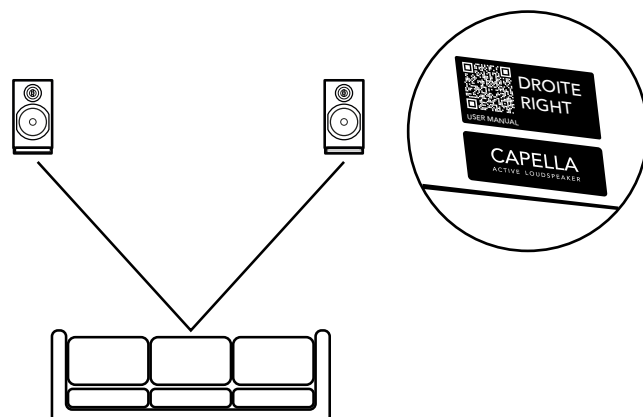
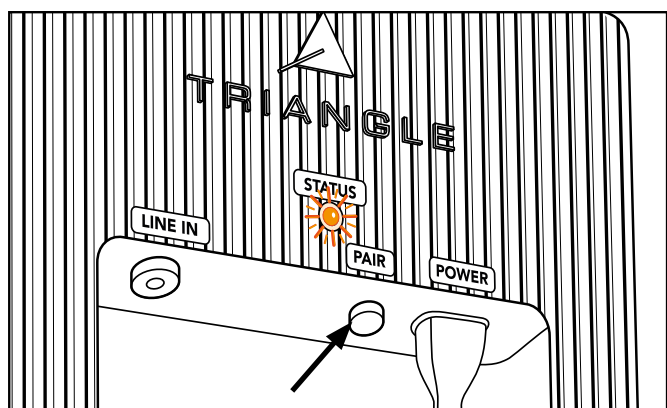
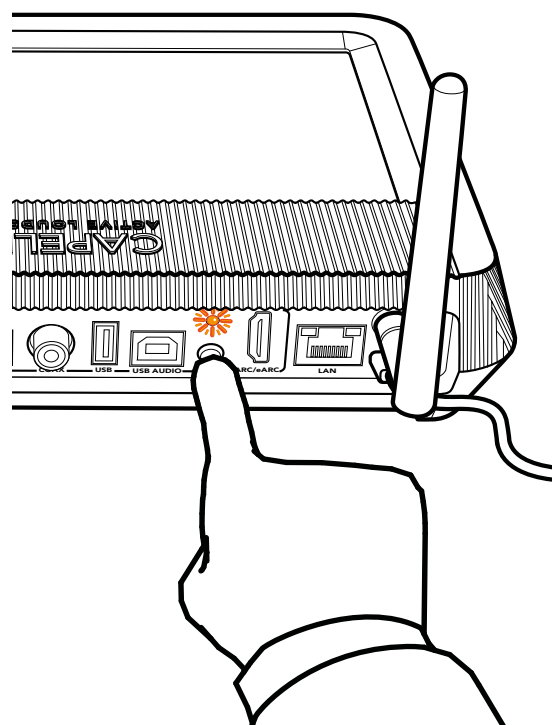
3. When the LED goes out, this indicates that the start-up sequence has finished.

7.D PAIRING THE SPEAKERS (NEXT)

4.



5.



4. Press the « PAIR » button on each speaker for 3 to 4 seconds, then wait until the LEDs start flashing rapidly in orange.

5. Briefly press the « PAIR » button on the back of the Stereo Hub 2 once. The WiSA LED will then start flashing slowly.

6. Pairing is complete once the LEDs on all three devices (the Stereo Hub 2 and the two speakers) remain lit continuously.

7. Now place your speakers, referring to the left and right labels on the back. Then connect your Stereo Hub 2 to the network.

Go to Step 9.C.1 to configure the stereo.

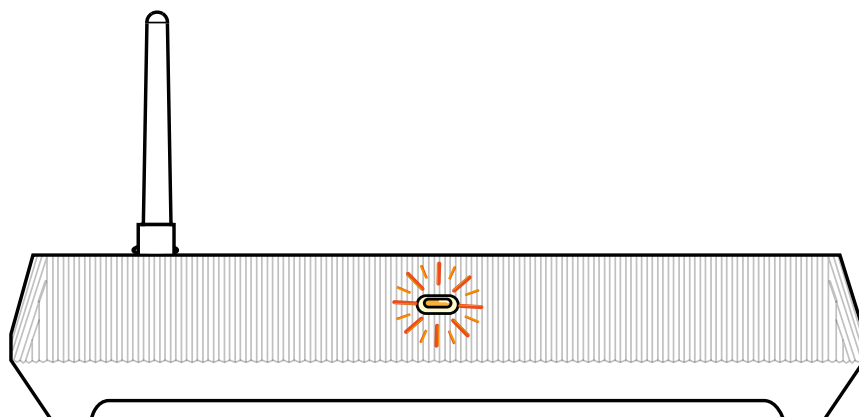


If the STATUS LED is blue again, unplug the speaker and go back to step 7.D.1

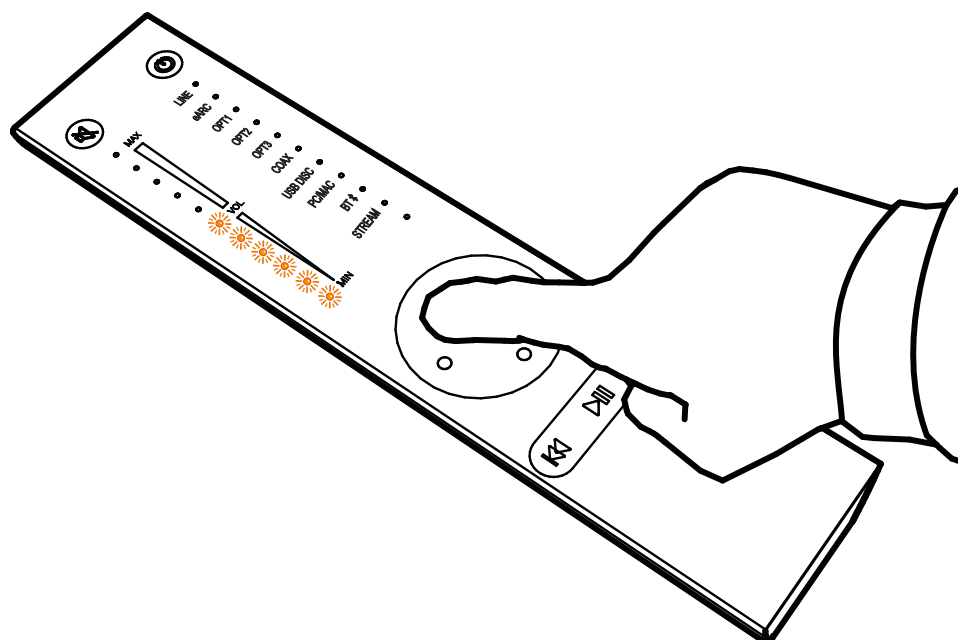
8. NETWORK SETUP

You can connect the Stereo Hub 2 of your CAPELLA 2 via Wi-Fi or Ethernet.

1. The Wi-Fi LED on the front panel flashes rapidly, indicating that « Wi-Fi Setup » mode is active.

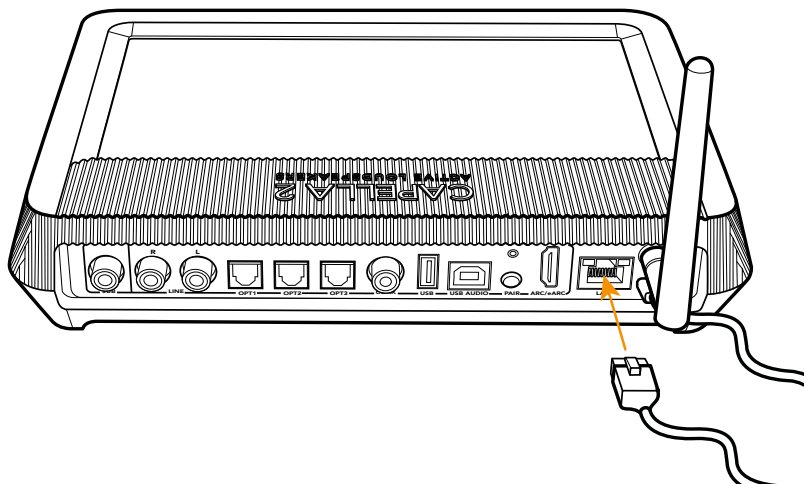


2. Adjust the volume using your remote control so that at least 6 LEDs light up.

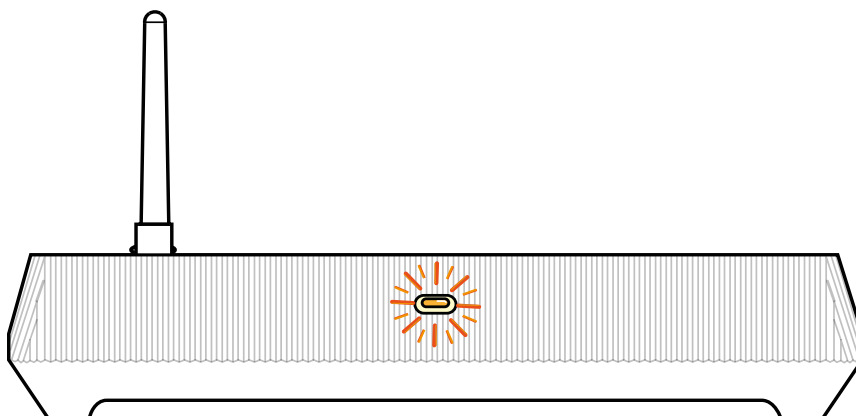


8.A CONNECTING THE STEREO HUB 2 TO THE NETWORK VIA THE ETHERNET PORT

Your CAPELLA 2 Stereo Hub 2 has an Ethernet port. If there is an Ethernet socket nearby, we recommend using this connection method, as it will be more stable than a Wi-Fi connection.



- Connect an RJ45 cable between your device's Ethernet port and your router, then wait a few seconds.

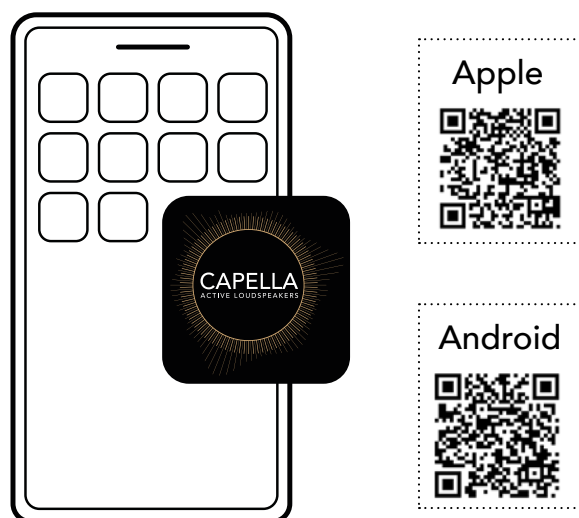


- Once the connection to the network has been established, the Wi-Fi LED on the front panel will remain lit.
- You can now install the CAPELLA app, which can be downloaded via the QR code below:



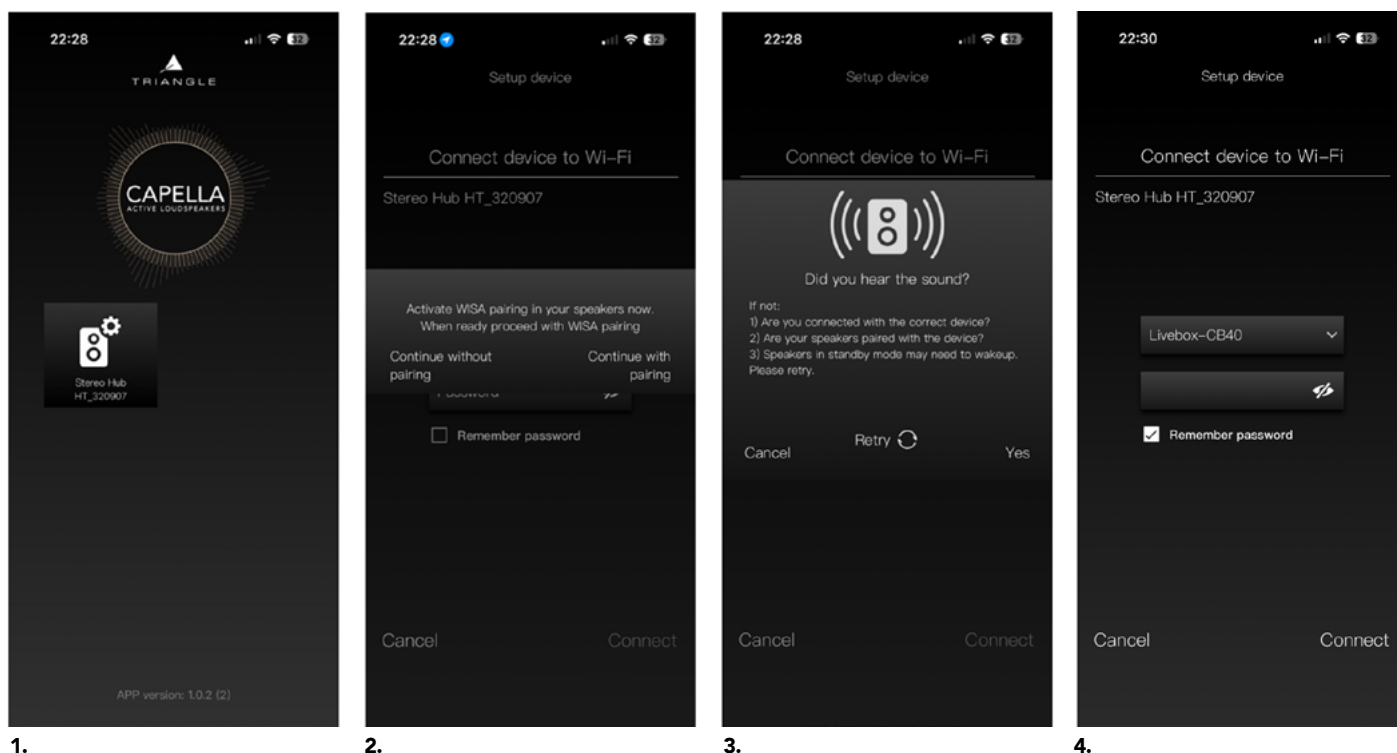
- Open your app, tap the speaker icon, then go straight to step 9.A.

8.B CONNECTING THE STEREO HUB 2 TO THE NETWORK VIA WI-FI



Download the « CAPELLA » app onto your smartphone or tablet and follow the instructions below.

The setup is complete once the Wi-Fi LED stays steady.



1.

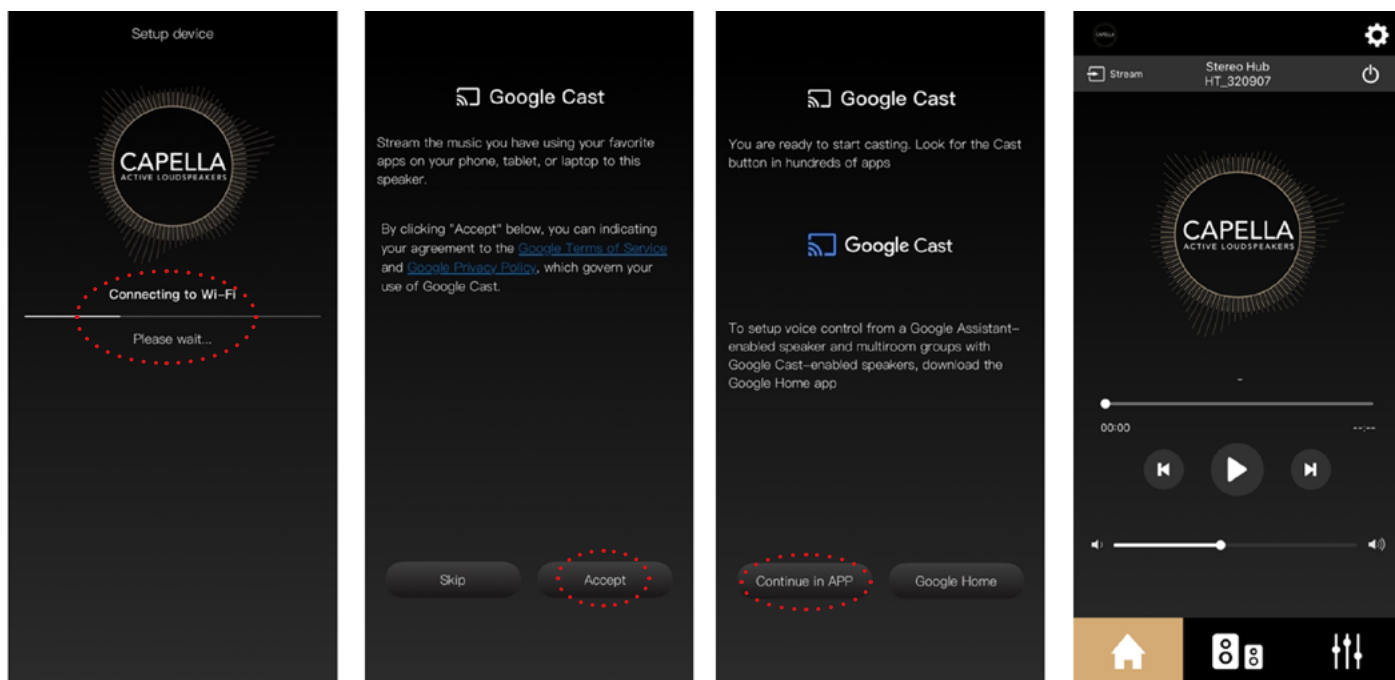
2.

3.

4.

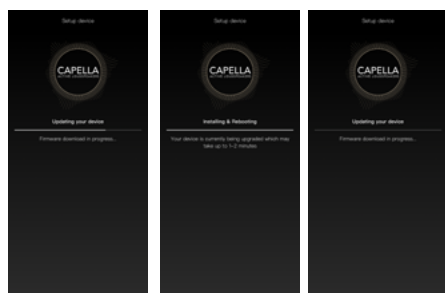
1. Open the app and tap the speakers you wish to set up.
2. Your CAPELLA 2 speakers are factory-paired, so you can tap « Continue without pairing ».
3. Tap « Yes » if you have heard a sound coming from your speakers.
4. Select the network to which you wish to connect the CAPELLA 2 system, then enter your network password before clicking on « Connect ».

8. CONNECTING THE STEREO HUB 2 TO WI-FI VIA THE APP (SUITE)



5. 6. 7. 8.

5.a



Automatic update sequence

5. The connection is in progress
 - The Stereo Hub 2 may update automatically during this step. Please wait until the process is complete; it may take 2 to 3 minutes to reach the page for step 6.
6. Agree to the Google Cast Terms of Service.*
7. Finally, click on « Continue in App ».
8. Your system is now connected.



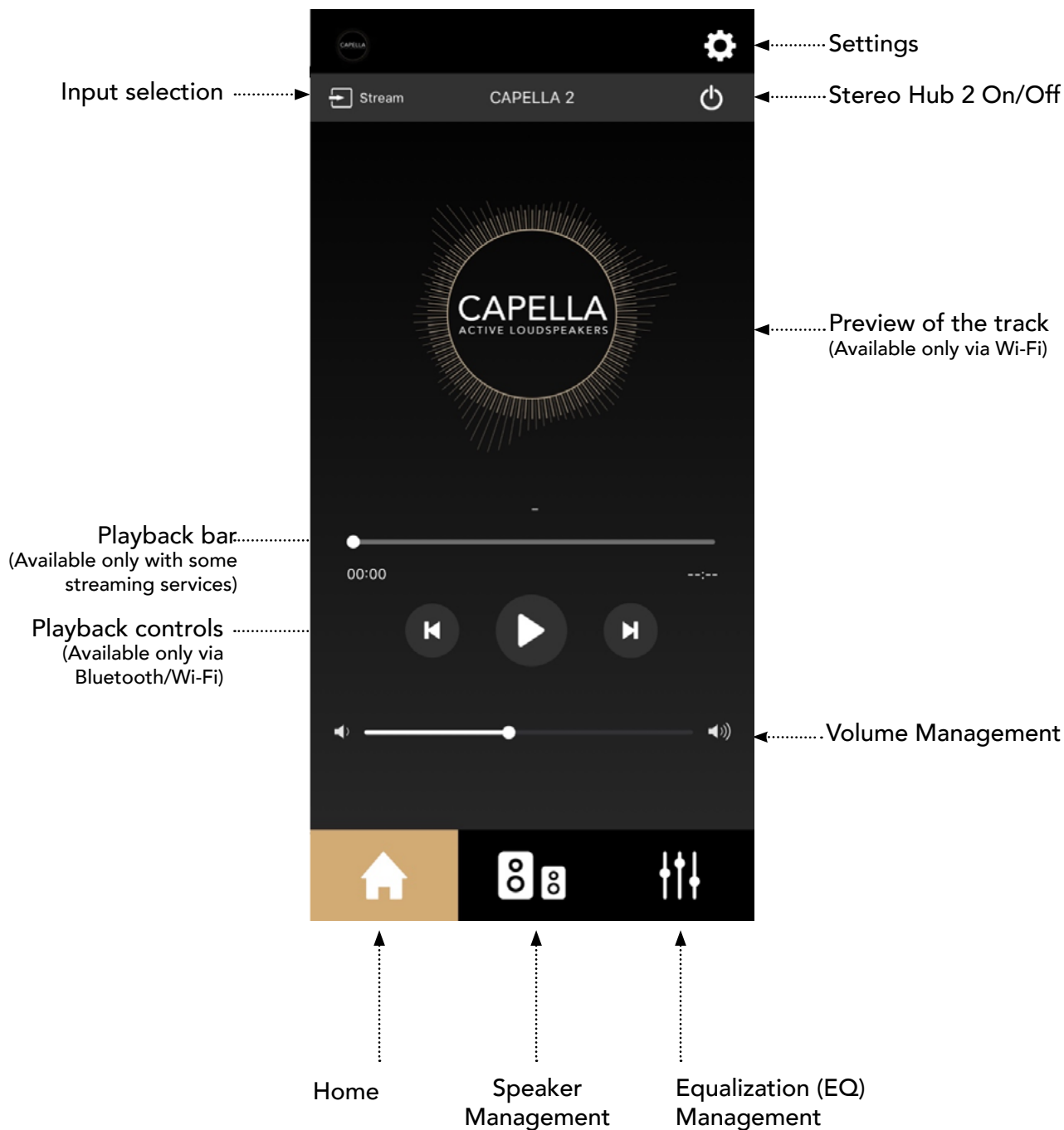
**The Google Cast feature is not always enabled by default for iOS users. See Step 9.B to enable it if necessary.*

You can also connect to Wi-Fi via AirPlay (Apple products only); for instructions, see Annexe 1.

9. HOW THE APP WORKS

9.A HOME PAGE DESCRIPTION

The home screen, represented by the icon , serves as the playback screen. It also allows you to select the source, adjust the volume, and access settings.

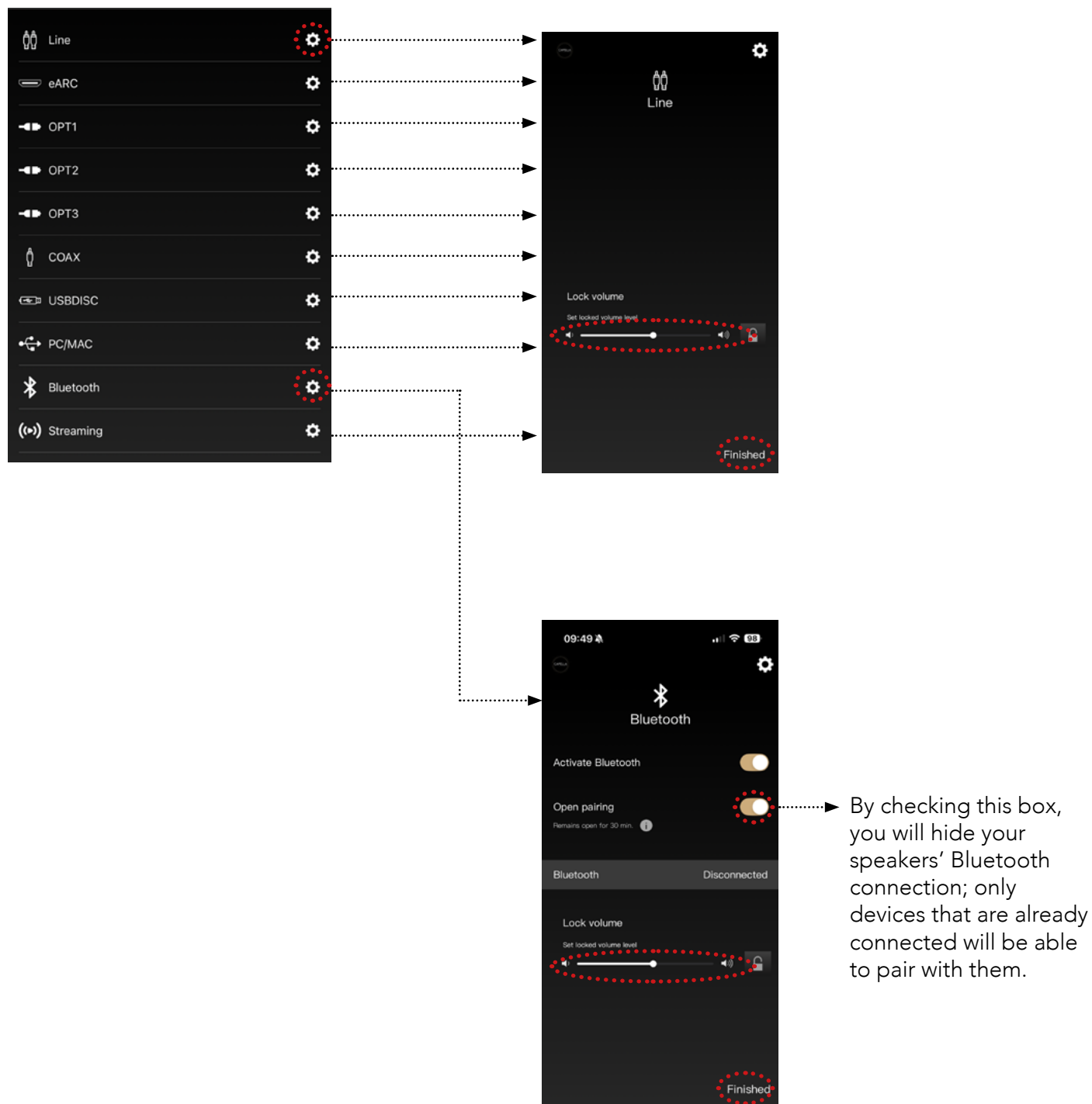


When using the Line/Aux/HDMI/Opt/Coax/USB inputs, you will not have access to the playback bar or navigation options.

9.A HOME PAGE DESCRIPTION (NEXT)

If you click on the source selection logo, a page will open showing a list of available inputs.

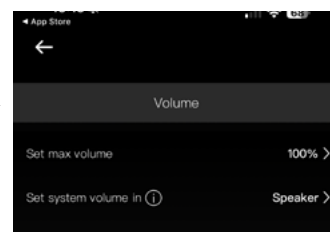
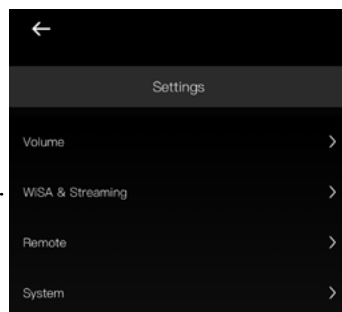
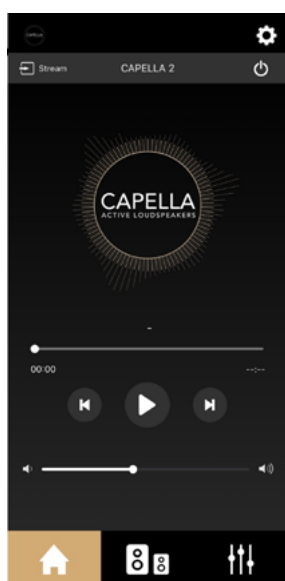
- Next, tap the « Settings » icon. From there, you can lock the volume level for each input or access various Bluetooth settings.



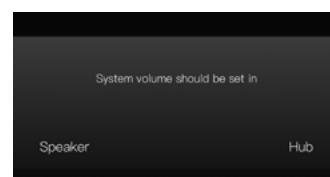
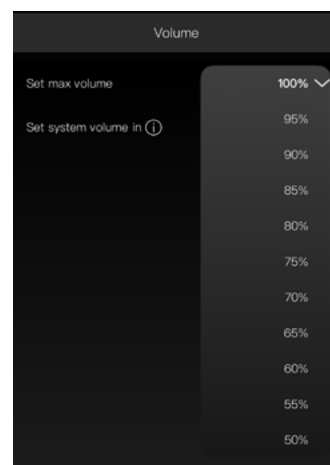
- Then return to your home page by clicking the «  » icon.

9.B SETTINGS

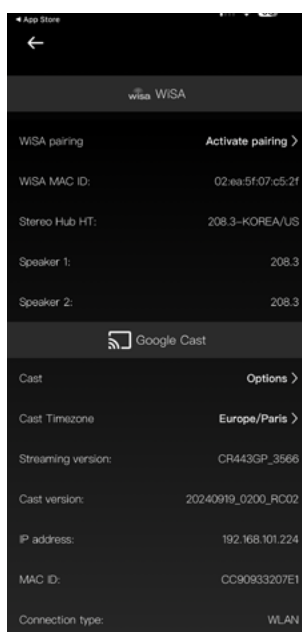
Click the icon  to access the settings:



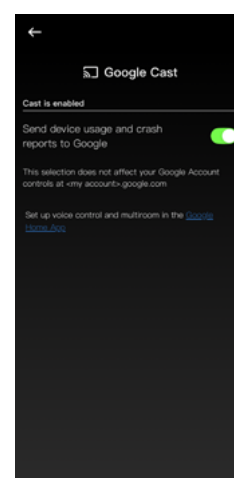
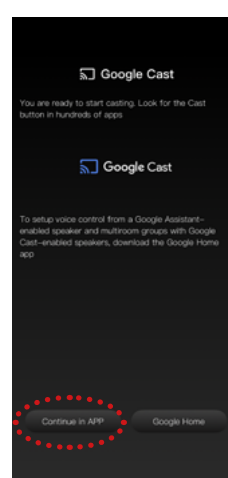
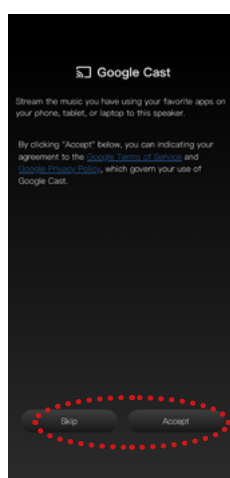
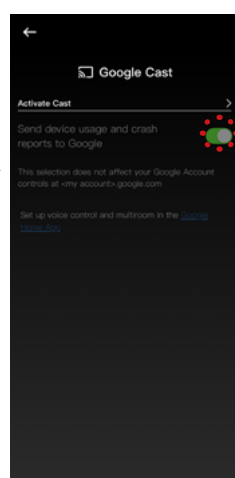
It is possible here to restrict the maximum system volume.



You can adjust the volume from the speakers or from the Stereo Hub 2. Leave the default setting on « speaker ».



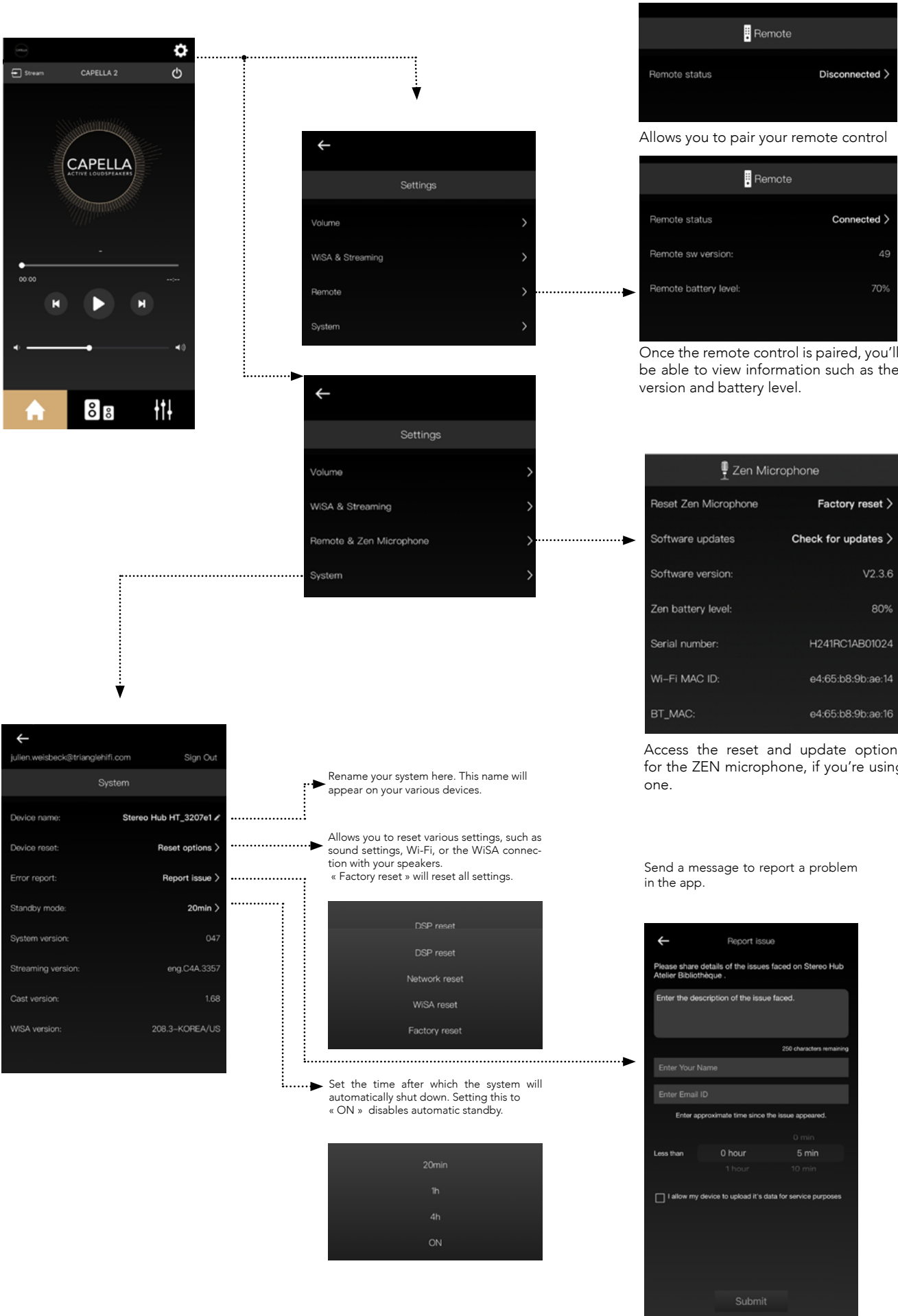
A feature that allows you to pair new speakers via WISA.



Google Cast isn't always enabled when installing from iOS (iPhone). Click this link to enable it and follow the steps.

9.B SETTINGS (NEXT)

Click the icon  to access the settings:



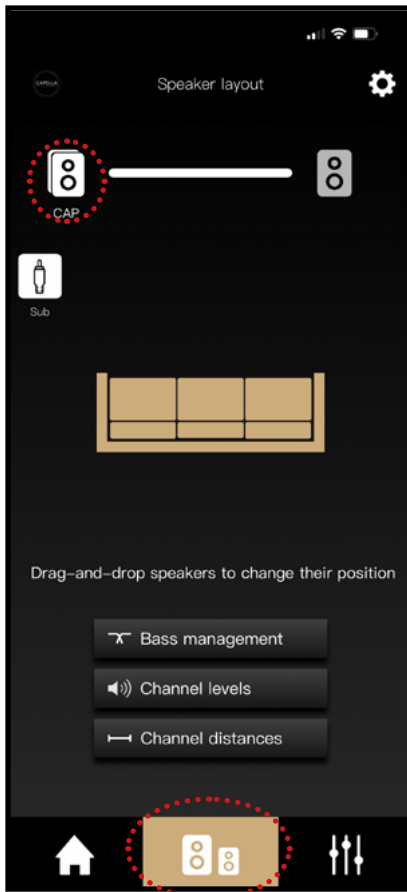
9.C SPEAKER SETUP

9.C.1 STEREO SETUP

When you use your speakers for the first time, they are already set up in stereo; refer to the labels on the back for their placement. You can proceed directly to the next step, 9.C.2.

If you have reset your system to its default settings, both of your speakers are configured and assigned as « **Left speaker** ».

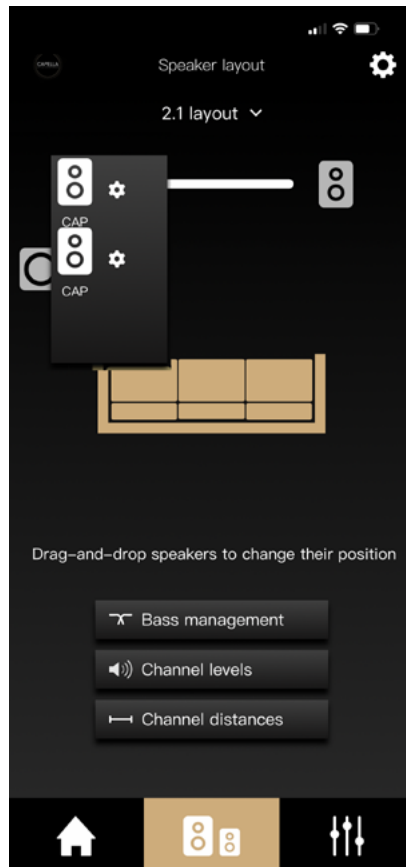
You will therefore need to set them up in stereo. To do so:



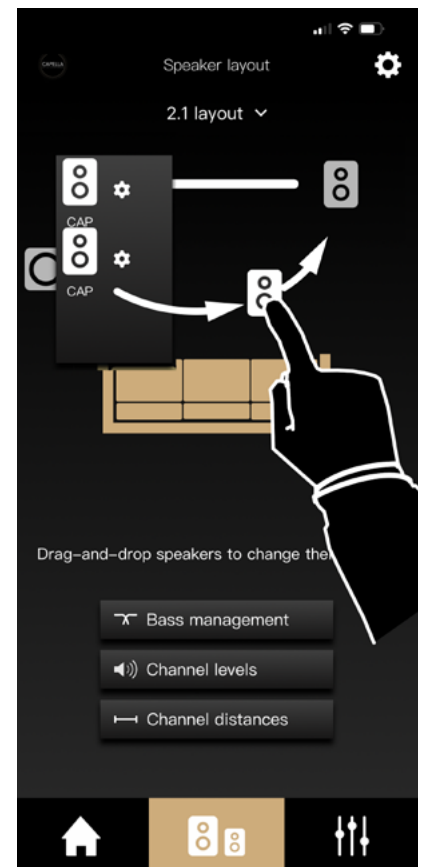
1.

1. Go to the second tab in the app. Two speaker icons are stacked on top of each other on the left side.

2. Tap the icon  once to display the two speakers separately. Press and hold one of the icons to play a sound through one of your speakers. This will help you easily identify the left and right speakers.



2.



3.

3. Tap the speaker icon on the right, hold your finger down, and « drag and drop » the icon into the designated slot on the right.

Perform a final test by pressing each speaker in turn to play a sound and verify that they are positioned correctly.

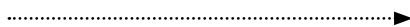
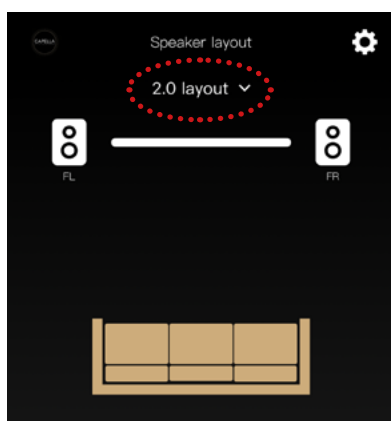
Your speakers are now set up in stereo.



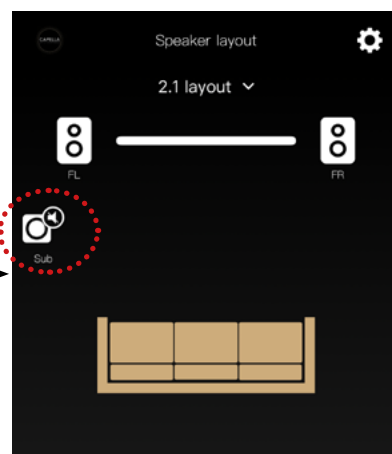
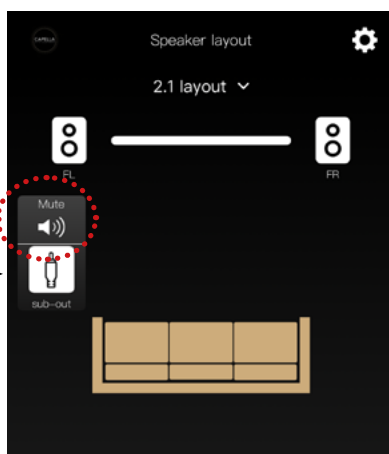
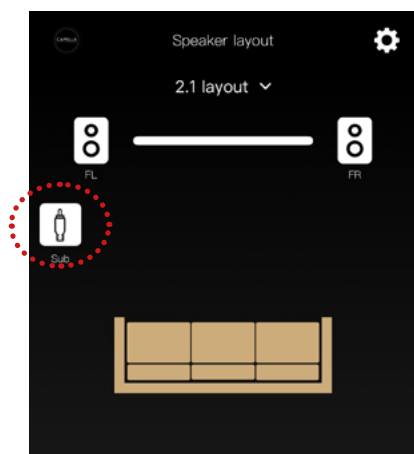
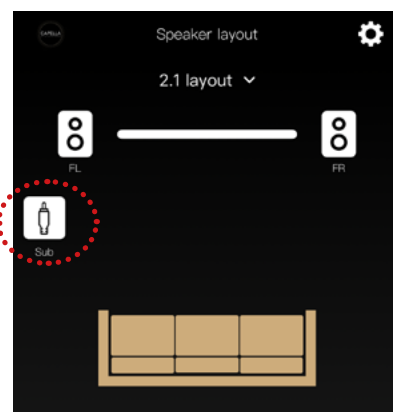
On Android, to perform a sound test, tap the speaker icon and then swipe your finger slightly.

9.C SPEAKER SETUP (NEXT)

9.C.2 ENABLING 2.0 OR 2.1 MODE



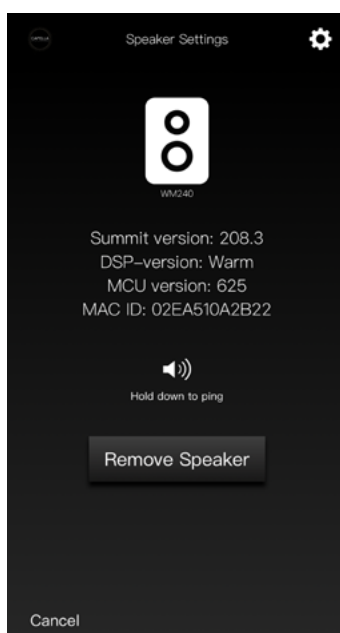
Mode Stereo is enabled by default. If you have a subwoofer, enable 2.1 mode by clicking on "2.0 layout." A SUB icon will appear on the screen.



- By clicking on the subwoofer icon, you can enable or disable the mute function.

9.C.3 SPEAKER INFORMATION

Click on a speaker to view the following informations:



Information about the powered speaker

Play a sound to identify your speakers

Disconnect your speaker from the Stereo Hub 2

9.C SPEAKER SETUP (NEXT)

9.C.4 BASS MANAGEMENT

- Click on “Bass Management” to access the many settings.
- If you have a subwoofer, you can adjust the crossover frequency between your speakers and the subwoofer; otherwise, leave the settings on « Flat » and proceed to the next step.

Highpass: Use this setting to define the cutoff frequency of your speakers in the low-frequency range. We recommend setting this high-pass filter between 70 and 100 Hz.

Lowpass: Use this setting to adjust the cutoff frequency of your subwoofer to match your speakers. We recommend setting this low-pass filter to a frequency between 60 and 90 Hz.

Here, you can increase or decrease the gain at the subwoofer crossover frequency.

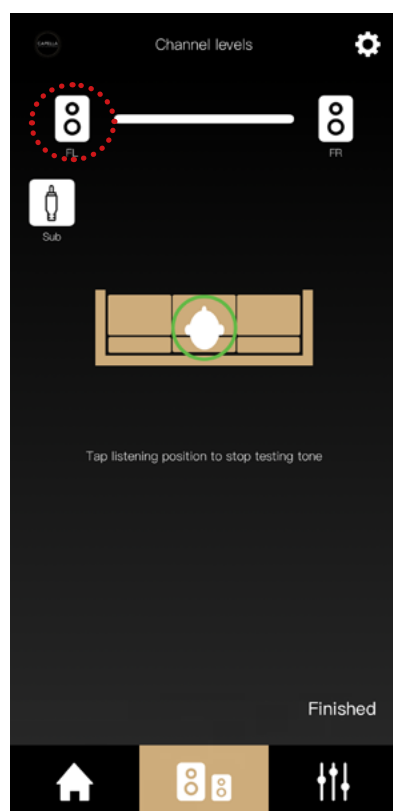
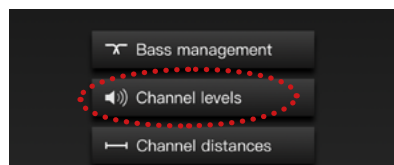
Tap « Finished » to return to the previous menu.

You can lock your default personal settings here.

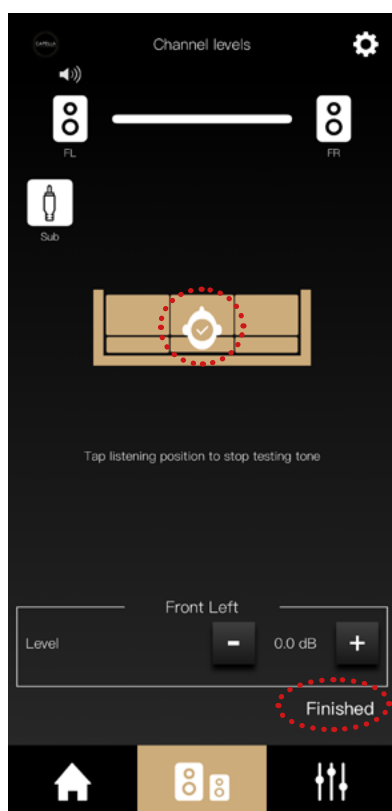
9.C SPEAKER SETUP (NEXT)

9.C.5 LEVEL SETTINGS

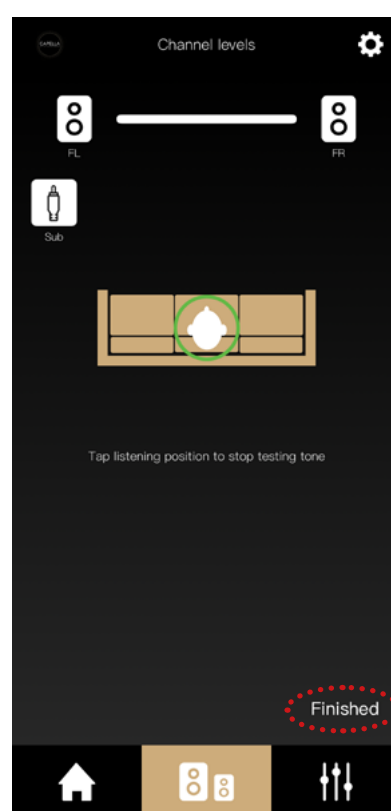
- Click « Channel levels » to access these settings.



1.



2.



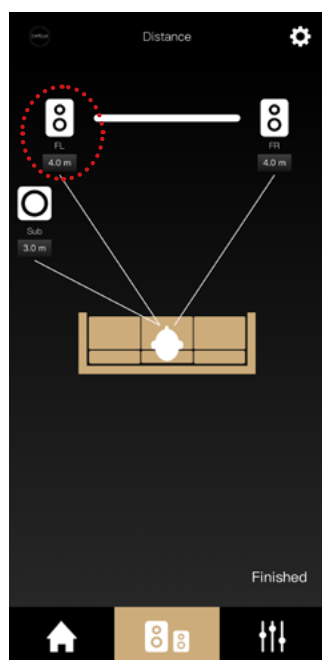
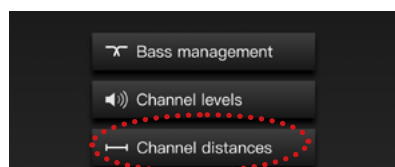
3.

- Click on the speaker you want to adjust, then click the green circle once it's positioned at your listening spot.
- The speaker will then play a sound; adjust the volume to balance it with your second speaker if necessary.
- Click on the second speaker to compare the sound. Confirm your settings by clicking on your listening position again.
- Press « Finished » to return to the previous menu.

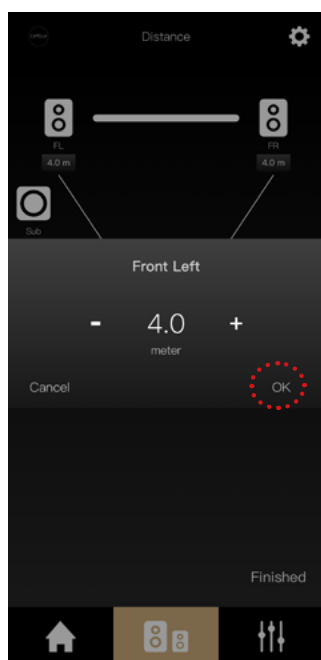
9.C SPEAKER SETUP (NEXT)

9.C.6 ADJUSTING THE DISTANCE BETWEEN YOUR LISTENING POSITION AND YOUR SPEAKERS

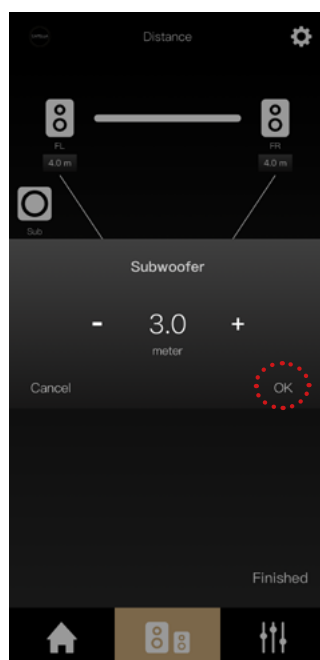
- Click « Channel distance » to access these settings.



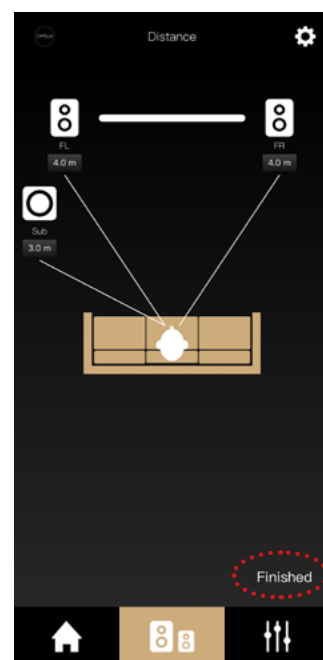
1.



2.



3.

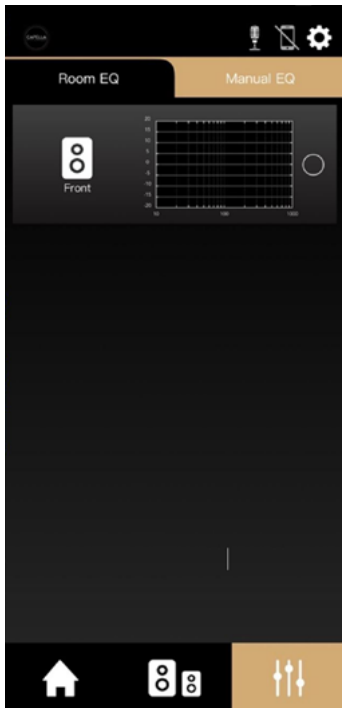


4.

1. Select the icon for the speaker you want to adjust.
2. Adjust the distance from your listening position, then click « Ok ».
3. Repeat this step for each speaker, including the subwoofer if you have one.
4. Then click « Finished » to return to the previous menu.

9.D «EQ» FUNCTIONS

9.D.1 INTRODUCTION TO THE « EQ » FUNCTIONS



The CAPELLA app lets you perform an acoustic calibration of your system and then make various sound adjustments. CAPELLA is a smart audio system that adapts to your specific environment while giving you the freedom to make precise adjustments based on your listening preferences.

The factory settings for your speakers are designed to maximize your system's potential; they are configured in a wide mode with no restrictions. To customize your listening experience, we recommend making the following adjustments.

There are two complementary ways to adjust your system settings.

- « Room EQ » helps compensate for the acoustic characteristics of your room. This adjustment is made automatically and will address most of your issues.
- « Manual EQ » designed for advanced users, allows you precise sound adjustments using various filtering tools.

Before making these adjustments, here are a few important points to keep in mind:

When using « Room EQ » or « Manual EQ », one element remains consistent in its representation: the frequency response curve.

- The vertical axis represents the sound level in decibels (dB),
- The horizontal axis represents the frequency range in hertz (Hz).

« Room EQ » performs automatic adjustments and mainly operates within a frequency range of 10 Hz to 400 Hz.

The original signal sent during the « Room EQ » measurement, known as pink noise, sweeps across the entire frequency range at a constant level, thus appearing as a straight line on the frequency response curve.

The goal is therefore for the signal reproduced by the speaker to follow this same straight line, ensuring sound reproduction that matches the original signal. However, we will discover that the signal reproduced by the speaker is disrupted by various factors, significantly impacting sound reproduction—regardless of your speaker's original performance. Your CAPELLA 2 system features powerful corrections to address this.

« Manual EQ », on the other hand, affects the entire audible frequency range—that is, from 20 Hz to 20 kHz, with 20 Hz corresponding to low frequencies and 20 kHz to high frequencies. In between lie a multitude of nuances and details, including the midrange frequencies associated with vocals.

We will explain later what these frequencies correspond to so that you have concrete reference points when using the « Manual EQ » for your final adjustments. (See Annexe 5)

9.D «EQ» FUNCTIONS (NEXT)

9.D.2 « EQ » Page

Indicates the microphone selected for taking measurements (iPhone or ZEN microphone) *

« Room EQ »
Automatic calibration of your system; see section 9.D.3.

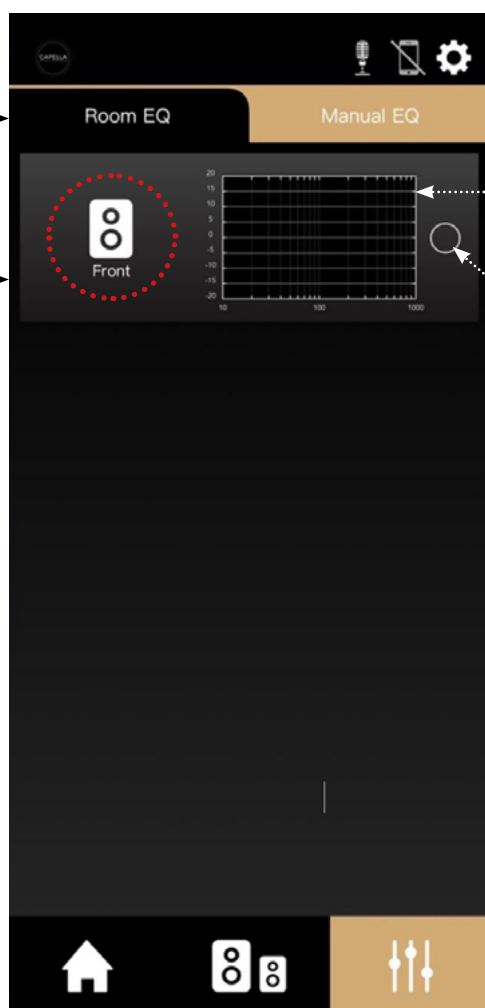
Selecting the speaker for
Room EQ or Manual EQ

« Manual EQ »
Manual settings see section 9.D.4.

A graph showing the «frequency response» of your speakers.

Button to turn the «EQ» on and off. Use this to compare the sound.

Use this button to enable or disable the « Room EQ » settings and compare the acoustic effect.



NOTE: On Android, to access the « Room EQ » feature, you will need the « ZEN » external microphone, which is available as an optional accessory from your retailer or on our website. (See Annexe 2)

9.D «EQ» FUNCTIONS (NEXT)

9.D.3 « ROOM EQ »

The « Room EQ » feature automatically calibrates your system based on the acoustic characteristics of your room. (For more information, see Annexe 4.)

To complete this step, you will need a microphone.

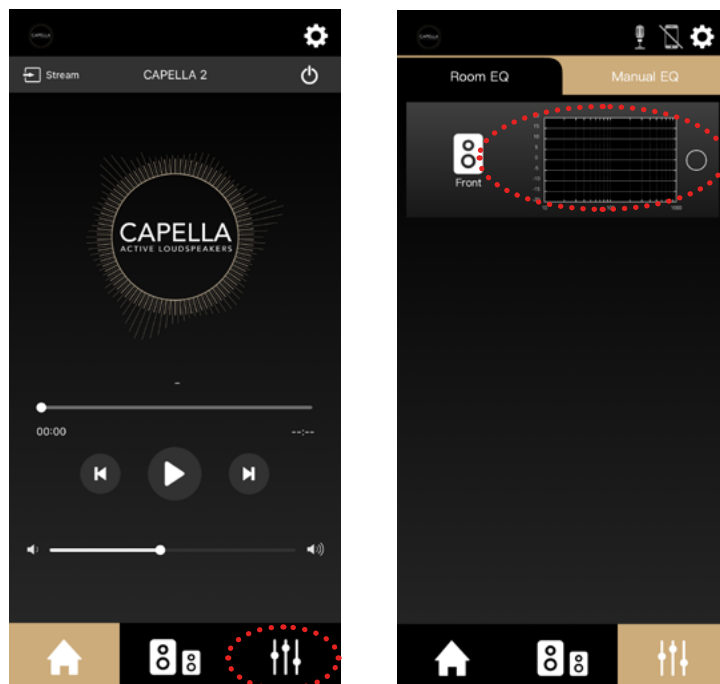
If you have an iPhone newer than the iPhone 6S, you can perform this operation directly from your smartphone. For Android* smartphone users, or for more accurate measurements, you will need to purchase the ZEN microphone, available on our website or from your retailer.

For instructions on using and setting up the ZEN microphone, please refer to Annexe 2 before beginning your measurements.

When the test begins, your speakers will play pink noise. You should then move around your room with your microphone, following a few simple guidelines. Taking measurements at different points allows you to cover the entire room and correct most issues. All of this data is sent to and processed by the app using powerful mathematical and analytical tools-all in just a few seconds. The calculated data is then sent to the Stereo Hub 2, which transmits it to the CAPELLA 2 speakers.

Let's now begin the measurements:

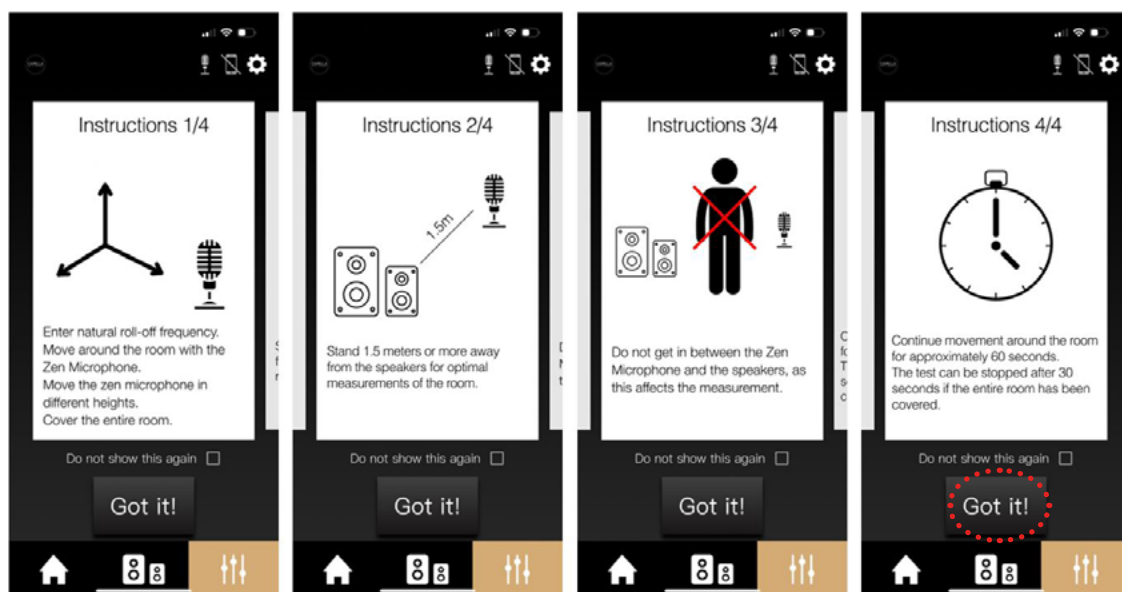
- Turn on your CAPELLA 2 system.
- Make sure you have configured the Micro ZEN as described in Annexe 2 and that the battery is sufficiently charged.
- Turn on the microphone by simply pressing the « Action » button; the LED will quickly turn green. (No action is required if you are using your iPhone's built-in microphone.)



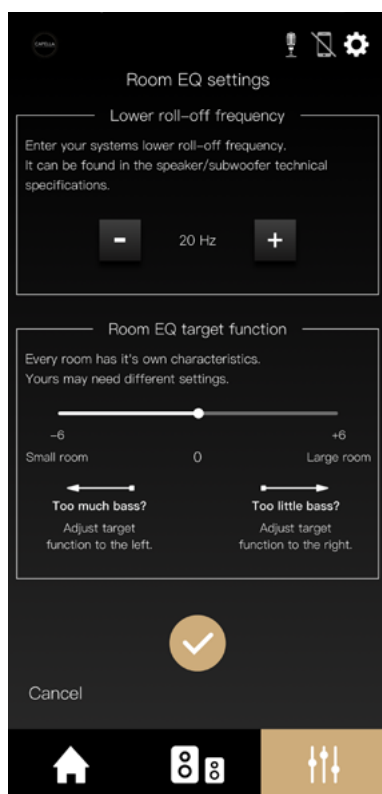
- Click the « EQ » tab.
- Then click the speaker icon in « Room EQ ».
- Follow the steps below in your app.

9.D «EQ» FUNCTIONS (NEXT)

9.D.3 « ROOM EQ »



- Please follow the guidelines when taking measurements, namely:
 - ◊ Move around the room with the microphone to cover the entire space, holding it at different heights.
 - ◊ Stay at least 1.5 meters away from your speakers.
 - ◊ Make circular movements with your arm.
 - ◊ Do not stand between the speakers and the microphone.
 - ◊ Take measurements for 60 seconds; however, the test may stop after 10 seconds if you have covered the entire room.
- Once you've read the recommendations, click on « Got it ».



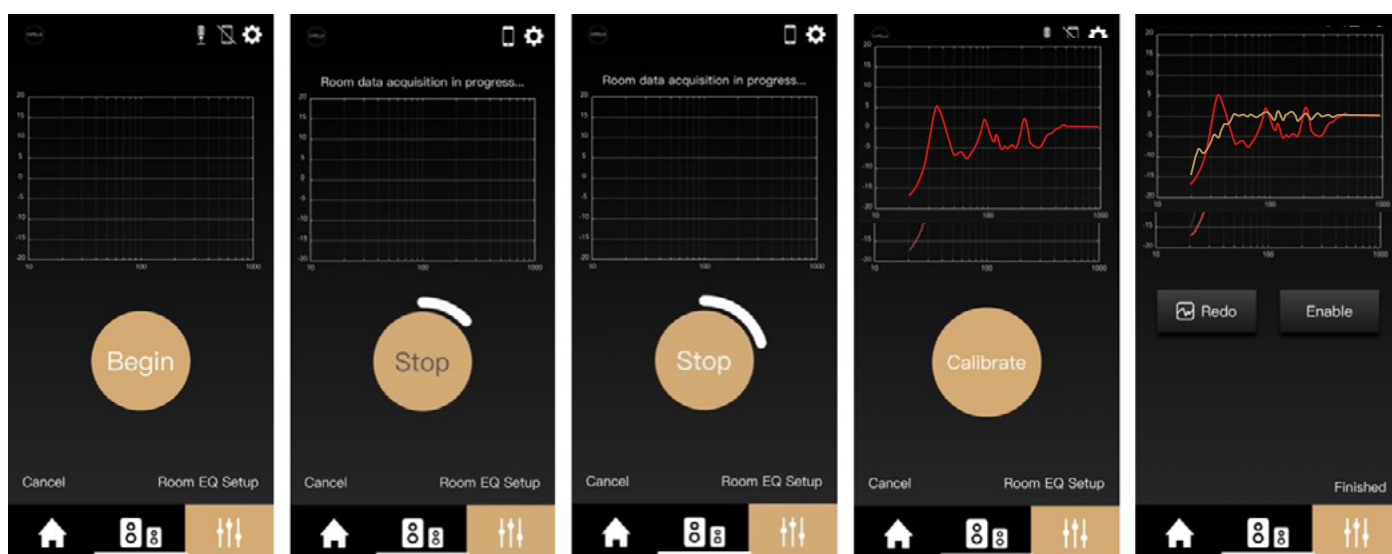
« **Lower roll-off frequency** » :The cutoff frequency of your system (low-frequency cutoff at -6 dB). For your CAPELLA 2 system, we recommend setting this to 35 Hz; the calibration focuses only on frequencies that your system can reproduce.

« **Room EQ target function** » : Every room has its own unique characteristics, and you can adjust the low-frequency response. If you don't notice any excessive resonance, move the slider to the right; conversely, if you do notice resonance and your room isn't "absorbing" it, move the slider to the left.

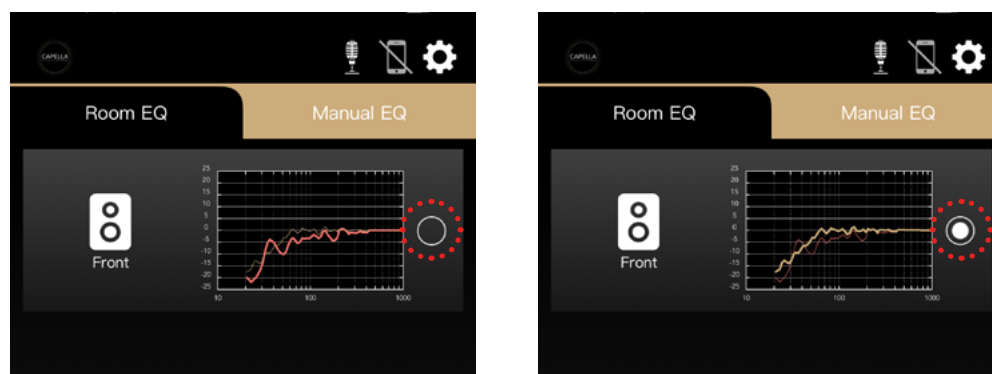


9.D «EQ» FUNCTIONS (SUITE)

9.D.3 « ROOM EQ »



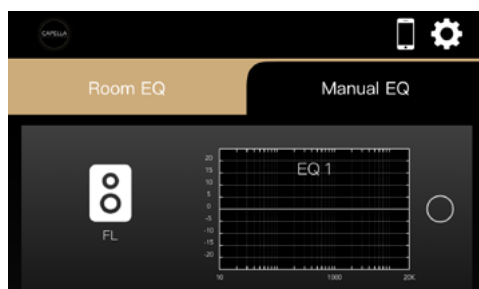
- ▶ Take your microphone and get ready to make measurements at different places in your room, as mentioned earlier.
- ▶ Next, click « Begin »; the LED on your ZEN microphone will turn red, and the speakers will emit a steady pink noise. You then have 60 seconds to take as many measurements as possible.
- ▶ The process can be stopped as soon as the « Stop » indicator turns white, if you think you have covered the entire room.
- ▶ Once the procedure is complete, a red frequency response curve for your speakers in your room will appear. These irregularities in the curve, which is supposed to be linear, are mainly due to the characteristics of your room; we will now correct them.
- ▶ Click on « Calibrate ». The frequency response corrected by the Room EQ is shown in yellow. You can see the difference between the two curves.
- ▶ Then, click on « Finished » to complete the Room EQ measurement process.



- ▶ By clicking on the small white circle under the Room EQ icon, you can activate or deactivate this setting during your listening sessions and thus notice a significant improvement in your listening conditions.

9.D «EQ» FUNCTIONS (NEXT)

9.D4 « MANUAL EQ »



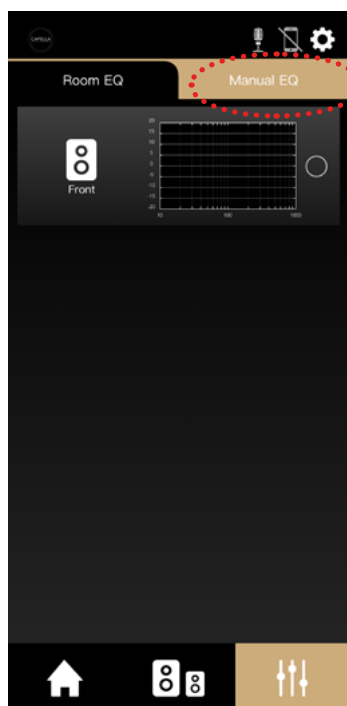
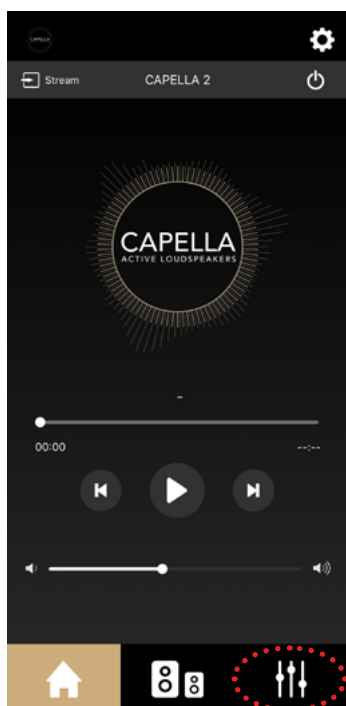
The « Manual EQ » feature allows you to fine-tune your speakers.

The various available settings directly affect the frequency response curve of your CAPELLA 2 system. You can therefore adjust these settings while listening to a track and observe the changes by enabling or disabling the feature.

For optimal use, it is helpful to have some understanding of the frequencies used and their functions. As mentioned earlier, the human ear perceives frequencies ranging from 20 Hz to 20,000 Hz. Low frequencies are at the lower end (the bass), and high frequencies are at the upper end (the treble). In between lie a multitude of nuances and details. We recommend reading Annexe 5 for further details.

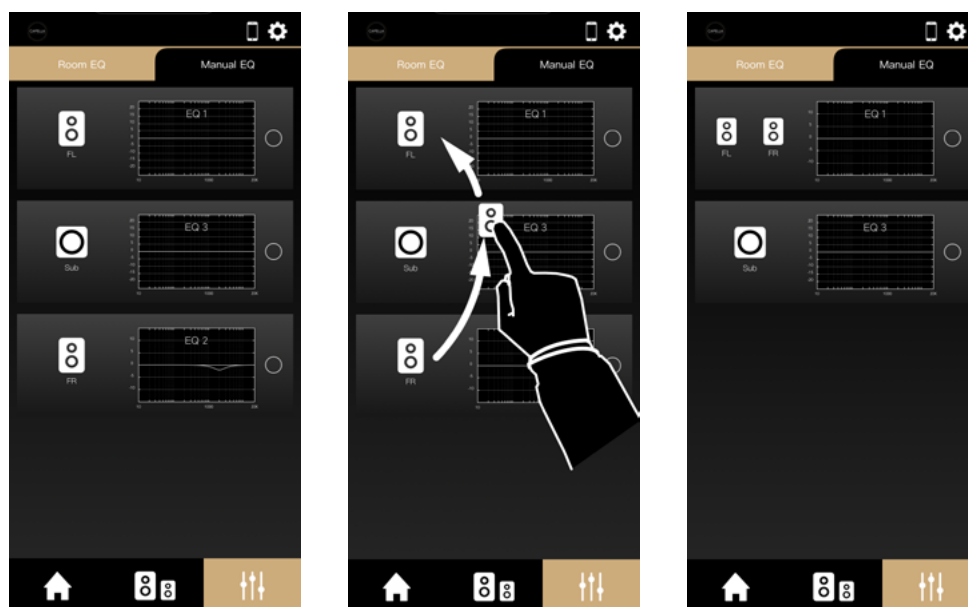
Let's now begin the procedures:

- Click the « EQ » tab, then « Manual EQ ».

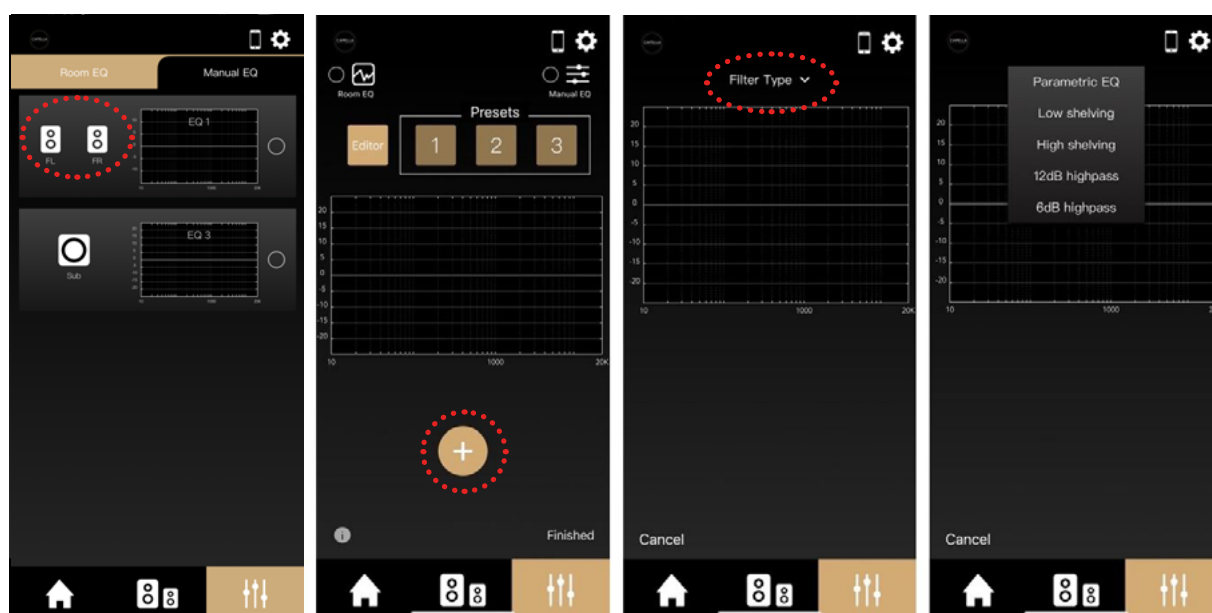


9.D «EQ» FUNCTIONS (NEXT)

9.D4 « MANUAL EQ »



- If you have a subwoofer, three speakers will appear. This allows you to adjust each speaker individually.
- For your main speakers, we recommend grouping your left and right speakers so you can adjust both simultaneously. To do this, hold your finger on one speaker and drag it onto the second; both speakers will now be visible in the same window. (Confirm the removal of « EQ2 »)
- Let's now proceed to the various available settings:

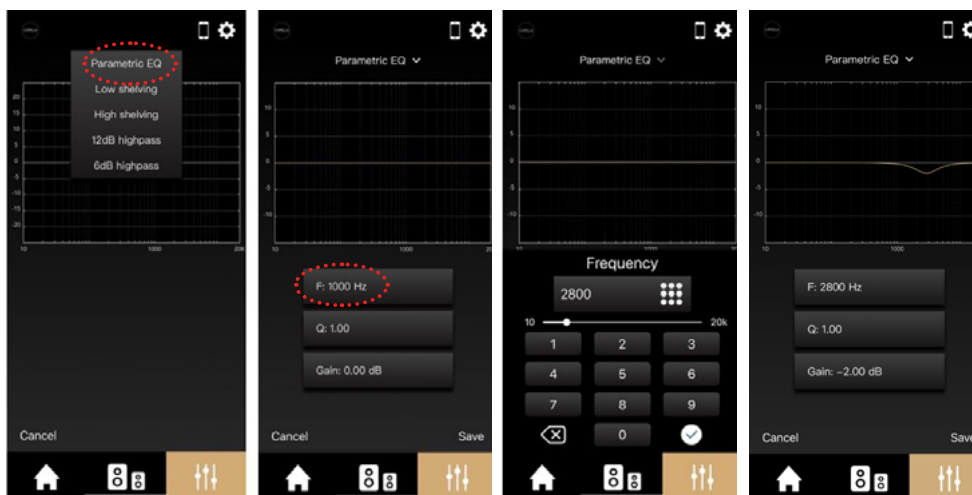


- Click on the « EQ1 » curve representing the two speakers in « Manual EQ ».
- A graph will appear; click on « + ».
- Then, under « Filter Type », a drop-down menu will appear containing various filter types.
- We will now go through these different settings one by one and explain their functions.

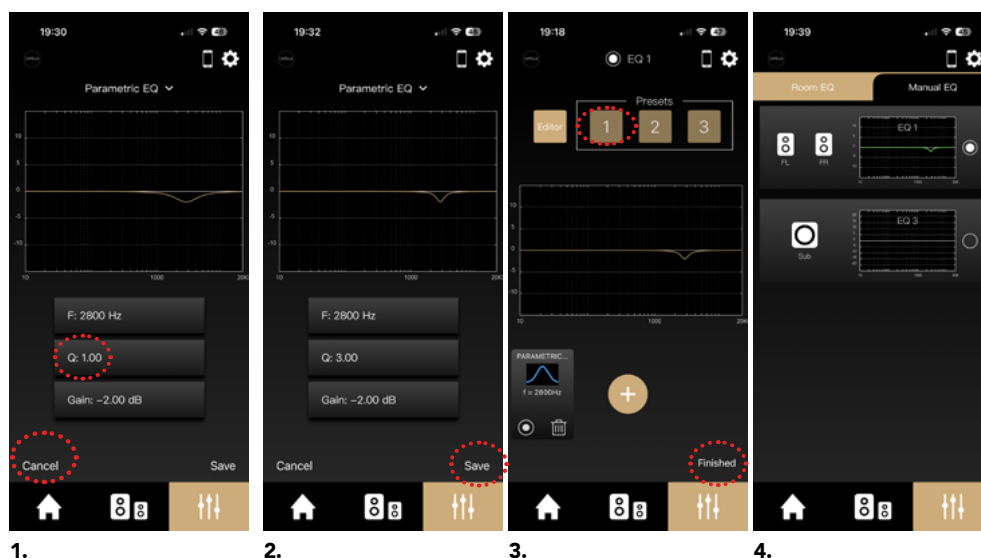
9.D «EQ» FUNCTIONS (NEXT)

Parametric EQ :

The « Parametric EQ » allows you to precisely adjust any frequency that you feel could be improved upon while listening. This could be, for example, a frequency known to be sensitive—such as one near the ear's resonance frequency—or a resonance in an instrument, a voice, etc., that needs to be attenuated. This adjustment allows you to boost or cut the output level of that frequency.



- Click on « Parametric EQ » A yellow line appears on the graph; this represents the theoretical frequency response of your speaker when played through pink noise.
- Click « F » for Frequency; the settings range from 10 Hz to 20 kHz. Set the frequency to 2800 Hz for our example (the ear's resonance frequency range), then confirm by clicking «  ».
- Next, click on « Gain »; the settings range from -10 dB to +10 dB. This determines the decibel level of the correction applied to the selected frequency. In this example, we'll set it to -2 dB.
- Then click «  ». You can now see the effect of your adjustment on the curve below.

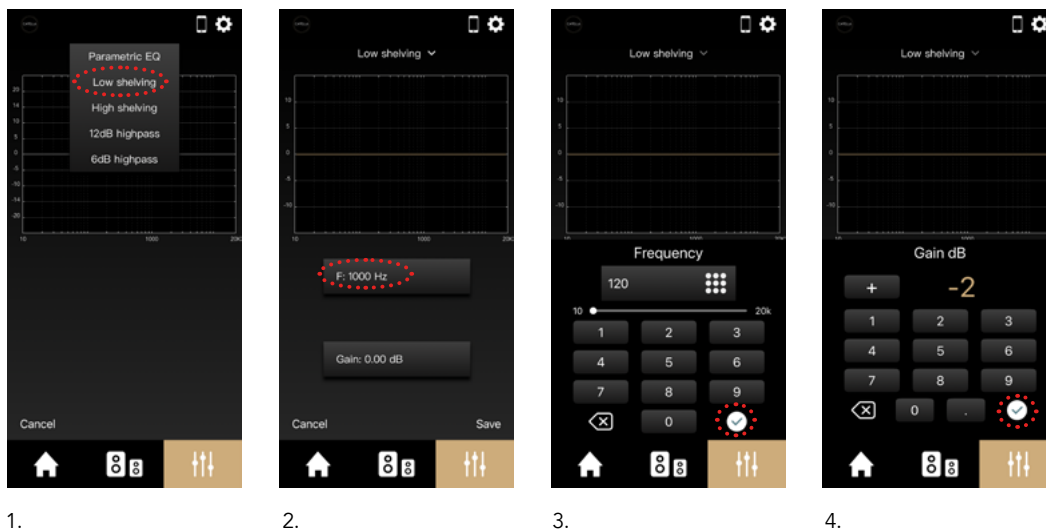


1. Now click on the « Q », factor; the settings range from 0.01 to 30. The Q factor determines the width of the frequency band; the lower the value, the wider the band. Let's use two different values as examples-1 and 3 to see how this parameter affects the result.
2. Click on « Save » to save your settings, then listen to the audio by toggling this new filter on or off using the small white circle..
3. Save your settings to your « Presets » by long-pressing the number 1/2/3. If you're satisfied with your settings, tap « Finished ».

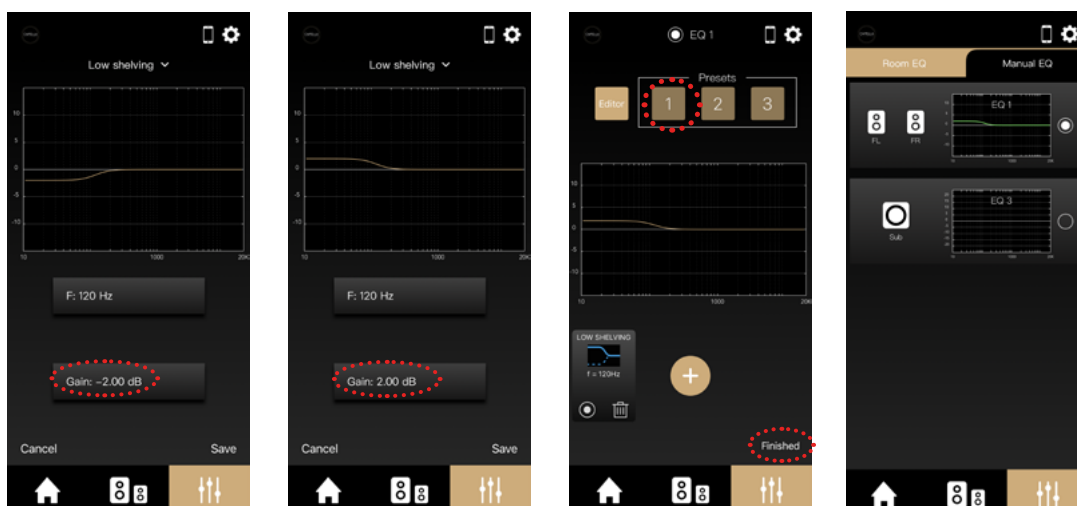
9.D «EQ» FUNCTIONS (NEXT)

Low shelving :

« Low shelving » allows you to boost or cut the level of a frequency band starting from the lower end of the spectrum. This directly affects the low-frequency range. This setting is primarily used to adjust the overall level of the low frequencies.



- Click on « Low shelving ». A yellow line appears on the graph; this represents the theoretical frequency response of your speaker when driven by pink noise.
- Click on « F » for Frequency; settings can be adjusted between 10 Hz and 20 kHz. In this example, we want to boost the low frequencies, so set the frequency to 120 Hz. This will allow us to adjust the volume of frequencies below 120 Hz. Confirm with « ✓ ».
- Click on « Gain », the settings range from -10 dB to +10 dB. This determines the decibel level of the correction applied to the selected frequency range. In this example, we will set it to -2 dB. Then click « ✓ ». You can now see the effect of your setting on the curve below:

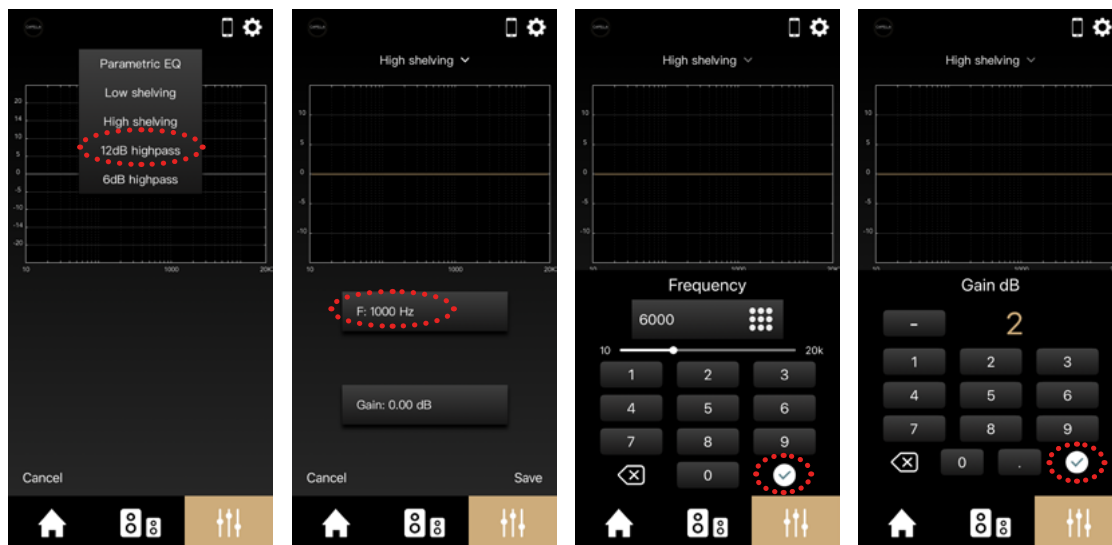


- Let's take another example with a gain of -2dB to see how it affects the sound. This allows you to attenuate the bass level.
- Click « Save » to save your setting, then listen to the sound by enabling or disabling this new filter using the small white circle.
- Save your setting to your « Presets » by long-pressing the number 1/2/3. If you're satisfied with your setting, click « Finished ».

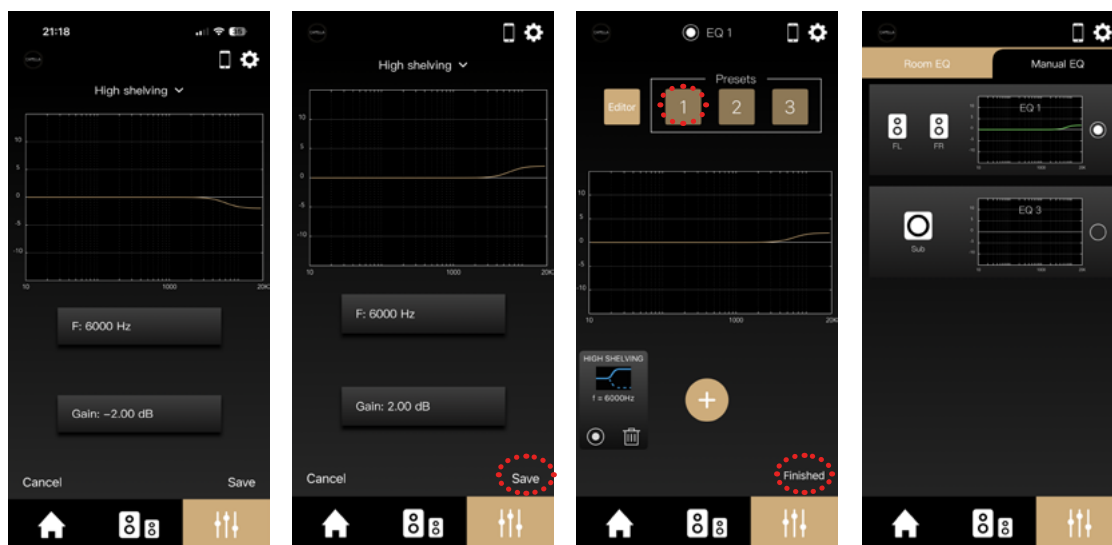
9.D «EQ» FUNCTIONS (NEXT)

High shelving :

« High shelving » allows you to boost or cut a frequency band starting from the top of the spectrum. This directly affects the high-frequency range. This setting lets you adjust the overall level of the high frequencies.



- Click on « High shelving ». A yellow line will appear on the graph; this represents the theoretical frequency response of your speaker when driven by pink noise.
- Click on « F » for Frequency; settings can be adjusted between 10 Hz and 20 kHz. In this example, we want to reduce the high frequencies, so set the frequency to 6000 Hz. This will allow us to adjust the volume of frequencies above 6 kHz, thereby emphasizing frequencies that are less noticeable over time. Confirm with « ».
- Next, click on « Gain »; the settings range from -10 dB to +10 dB. This determines the decibel level of the correction applied to the selected frequency range. In this example, we'll set it to -2 dB.
- Then click « ». You can now see the effect of your adjustment on the curve below.



- Let's take another example with a gain of +2dB to see how it affects the sound. This setting can be used boost the high-frequency level.
- Click « Save » to save your settings, then listen to the audio by toggling this new filter on or off using the small white circle.
- Save your settings to your « Presets » by long-pressing the number 1/2/3 if you're satisfied with your settings, then tap « Finished ».

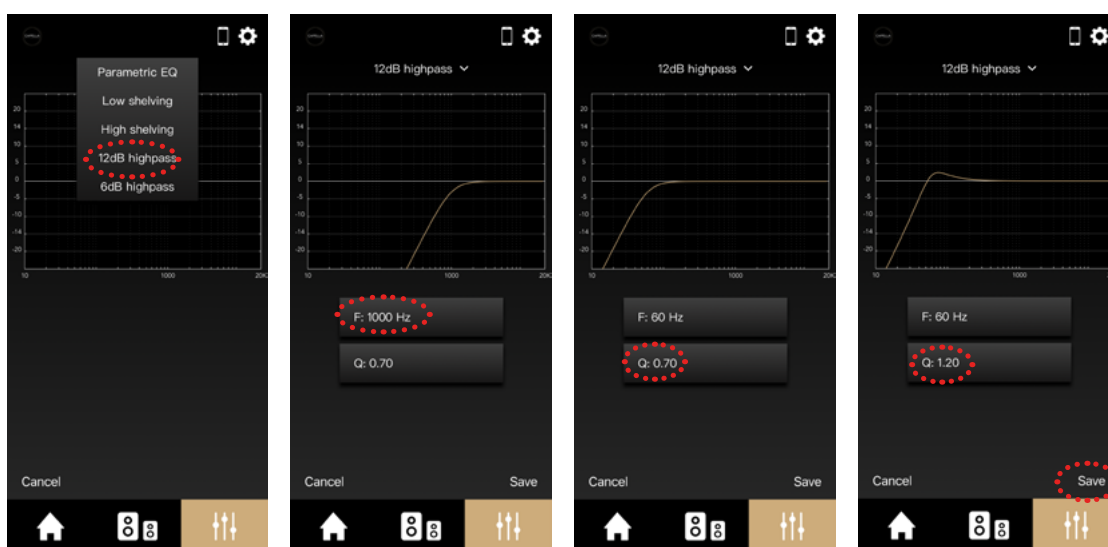
9.D «EQ» FUNCTIONS (NEXT)

12dB highpass :

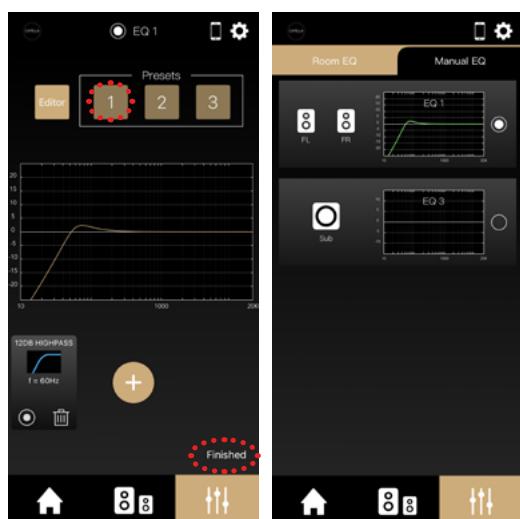
The « 12dB highpass » setting allows you to configure a high-pass filter with a raw slope of 12dB/octave. This setting lets you define the frequency at which your speakers will begin to operate in the low-frequency range. This setting is very useful for adapting your speakers to the dimensions of your room, in addition to the « Room EQ ».

CAPELLA speakers, thanks in particular to their DSP and its constant control over the drivers, offer high performance in terms of low-frequency reproduction. It is necessary to adapt them to their environment to get the most out of them. We recommend applying a 45Hz filter and then gradually increasing it in 5Hz increments to determine the cutoff frequency that best suits your listening room; the bass should be firm and tight, without excessive tailing.

This feature also allows you to set a filter around 80/120Hz if your speakers are paired with a subwoofer.



- Click on « 12dB highpass ».
- Then click on the frequency and set the starting point for this filter. For example, since we have a medium-sized room, we will apply a 60 Hz filter. This filter blocks the reproduction of all lower frequencies, which are difficult to reproduce due to the numerous resonances caused by the dimensions of our room.
- Next, adjust the « Q », factor; the higher the value, the higher the sound level at the cutoff frequencies. Let's use « Q » values of 0.7 and 1.2 as examples to illustrate the effect of this parameter.



- Click « Save » to save your settings, then listen to the sound by toggling this new filter on or off using the small white circle.
- Save your settings to your « Presets » by long-pressing the number 1/2/3. If you're satisfied with your settings, click « Finished ».

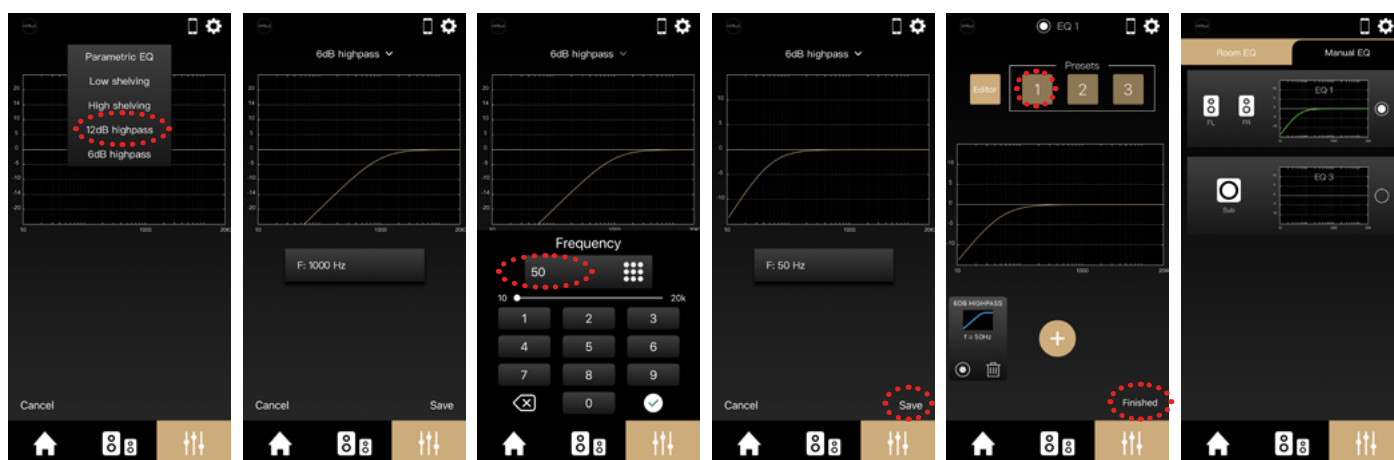
9.D «EQ» FUNCTIONS (NEXT)

6dB highpass :

The « 6dB highpass » allows you to set a high-pass filter with a gentle slope of 6 dB/octave. This setting lets you specify the frequency at which your speakers will begin to operate in the low-frequency range. This setting is very useful for adapting your speakers to the dimensions of your room, in addition to « Room EQ ».

CAPELLA speakers, thanks in particular to their DSP and continuous control over the drivers, offer exceptional low-frequency reproduction. To get the most out of them, it is necessary to adapt them to their environment. We recommend applying a 50Hz filter and then gradually increasing it in 5Hz increments to determine the cutoff frequency that best suits your listening room; the bass should be firm and tight, without excessive resonance.

With this feature, you can also set a filter around 80/120Hz if your speakers are paired with a subwoofer.



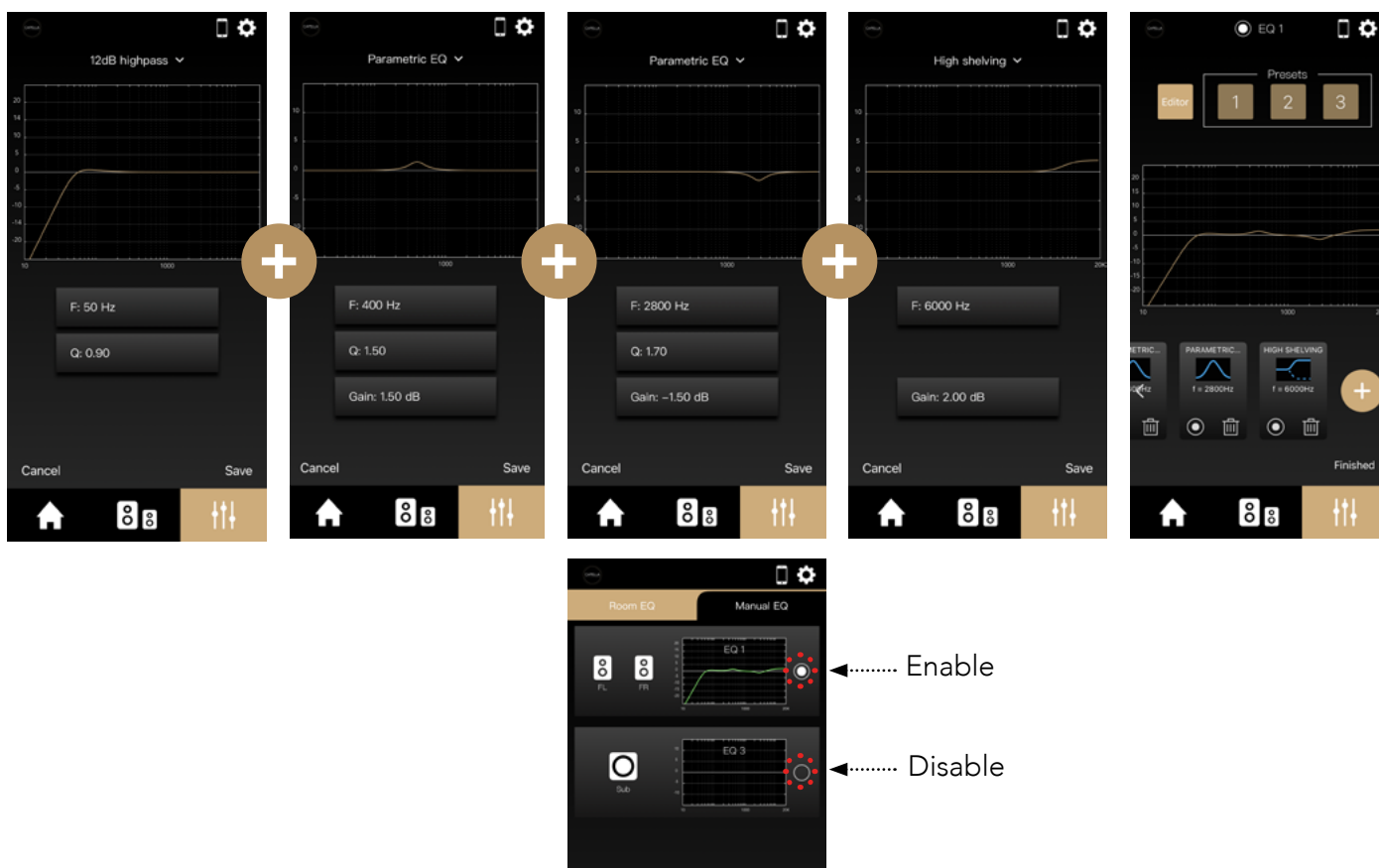
- Click on « 6dB highpass ».
- Then click on the frequency and set the starting point for this filter. For example, as we have a medium-sized room, we will apply a 50Hz filter. This filter blocks the reproduction of all lower frequencies, which are difficult to reproduce due to the numerous resonances caused by the dimensions of our room.
- Click « Save » to save your settings, then listen to the audio by toggling this new filter on or off using the small white circle.
- Save your settings to your « Presets » by long-pressing the number 1/2/3 if you're happy with them, then tap « Finished ».

9.D «EQ» FUNCTIONS (NEXT)

Multi EQ :

To achieve the best possible sound, a combination of filters will therefore be required. We invite you to try out these different settings for your CAPELLA speakers:

- A « 12dB highpass » filter set between 45 and 80Hz with a steep slope to adjust the bass according to the acoustics of your listening room.
- A « Parametric EQ » with a boost at 400Hz to address a perceived lack of presence in certain instruments.
- A « Parametric EQ » with a level attenuation at the 2800Hz frequency, which is noticeable to the ear.
- A « high shelving » filter starting at 6kHz to accentuate the high frequencies that are difficult to hear.
- Simply press « + » to add the various settings
- The final curve will then look like this:



- Listen to the sound and then enable or disable each of these filters individually to assess their effectiveness.
- Save your settings to your « Presets » by long-pressing the number 1/2/3, then tap « Finished ».
- If you wish to adjust this setting, long-press the selected « Presets » again, then copy this setting to the « Editor » to access all the functions of your various filters or to add new ones.
- The « Room EQ » and « Manual EQ » settings can also be used in combination; there is nothing to stop you from adding further adjustments after calibrating the Room EQ, particularly in the high frequencies where few correction has been applied.

10. CONNECTING SOURCES TO THE STEREO HUB 2

10.A Wi-Fi CONNECTION

Sampling: up to 24-bit / 44.1 kHz (FLAC format)

This connection allows you to stream music wirelessly to your CAPELLA 2 system from any Wi-Fi-enabled device: smartphone, tablet, computer, etc.

The connection method varies depending on the make of your smartphone or tablet. If you have an Apple iPhone or iPad, AirPlay or Google Cast connections are available. If you have an Android device, only Google Cast connections will be possible.

The streaming services Spotify Connect, Qobuz Connect, Tidal Connect and Roon Ready have their own connection methods, independent of AirPlay or Google Cast.

Depending on the type of connection:

- **AirPlay 2 (Apple):**
 - ▶ If you close the streaming app, the music will stop.
 - ▶ If you select a different source on your Stereo Hub 2 whilst listening to a streaming service, the music will automatically pause. You will need to select your speakers again and then click « Play » on the streaming service; the Stereo Hub 2 will automatically switch to the Wi-Fi source.
- **Google Cast (Apple & Android):**
 - ▶ If you close the streaming service app, the music will continue to play; you will need to reopen the app to stop it. (Or you can do this from the CAPELLA app)
 - ▶ If you select a different source on your Stereo Hub 2 whilst listening to a streaming service, the music will automatically pause and your speakers will be disconnected. You will need to reconnect the speakers to your streaming service to resume playback.
- **Spotify Connect / Qobuz Connect / Tidal Connect / Roon Ready:**
 - ▶ If you close the streaming service app, the music will continue to play; you'll need to open the streaming service app again to stop it. (Or you can do it from the CAPELLA app...)
 - ▶ If you select a different source on your Stereo Hub 2 whilst listening to these streaming services, the music will automatically pause. When you click Play on the same streaming service, the Stereo Hub will automatically switch back to the Wi-Fi source.
- Regardless of the connection used, once your speakers are connected to your streaming service, the Stereo Hub 2 comes out of standby mode and automatically switches to the « Streaming » source.
- The Stereo Hub 2 remote control allows you to play, pause and skip to the previous or next track when using streaming services.
- Please refer to the following annexes for instructions on how to connect your system to the various streaming services:
 - ▶ Annexe 5 : Spotify Connect
 - ▶ Annexe 6 : Qobuz Connect
 - ▶ Annexe 7 : Tidal Connect
 - ▶ Annexe 8 : Roon Ready
 - ▶ Annexe 9 : Deezer
 - ▶ Annexe 10 : Apple Music
 - ▶ Annexe 11 : Amazon Music
 - ▶ Annexe 12 : YouTube Music
 - ▶ Annexe 13 : TuneIn

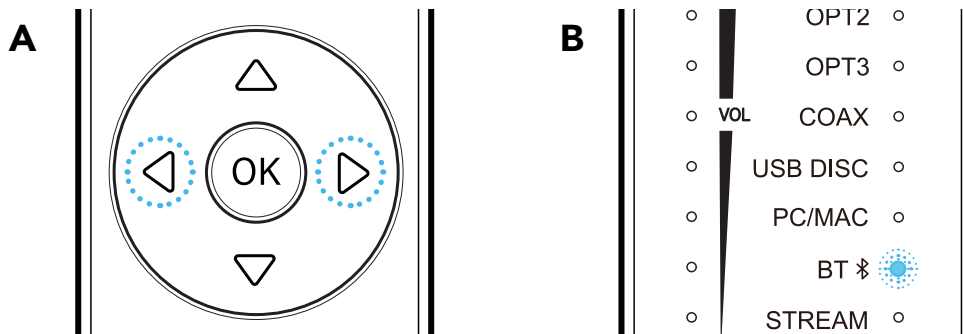
10.B BLUETOOTH CONNECTION

Sampling: 16-bit / 48 kHz

This connection allows you to stream music wirelessly to your CAPELLA 2 system from any Bluetooth-enabled device, such as a smartphone, tablet or computer.

To do this:

Turn on your CAPELLA 2 system by pressing  on your remote control.



- Select the Bluetooth input using the horizontal button (A) on your remote control. The indicator light next to « BT » will light up white (B).
- Search for your Bluetooth device (refer to its user manual if necessary), then look for the device named 'Stereo Hub-XXXXXXX' or the name you set during its network configuration. Connect to this device.
- Once the connection is established, any music played on your source device (smartphone, etc.) will be streamed to your system.
- The Stereo Hub 2 remote control allows you to play, pause and skip to the previous or next track when using streaming services.
- You can adjust the volume of the CAPELLA 2 system from your Bluetooth source using the physical buttons on your device or directly from the music app you are using.
- When connecting a Bluetooth device with volume control, pay attention to its volume level. If the volume is too low, the CAPELLA 2 speakers will not be heard. We recommend setting the volume of your Bluetooth device to 75% and the speaker volume to the minimum, then gradually increasing the volume using the remote control.
- The Bluetooth visibility of your CAPELLA 2 system can be enabled or disabled to prevent unauthorised connections. Go to section 9.A to carry out this operation via the app. *
- If a new device is to be connected, disconnect the device currently in use before starting the pairing procedure.

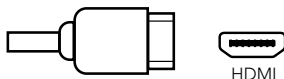


* If no source is currently selected, the Stereo Hub 2 automatically switches to the Bluetooth input as soon as it receives a signal.

* You can also use the remote control to enable or disable Bluetooth visibility. To do this, press and hold the « PREV » button for 3 seconds to disable it, or the « NEXT » button for 3 seconds to enable it.

10.C CONNECTION VIA HDMI

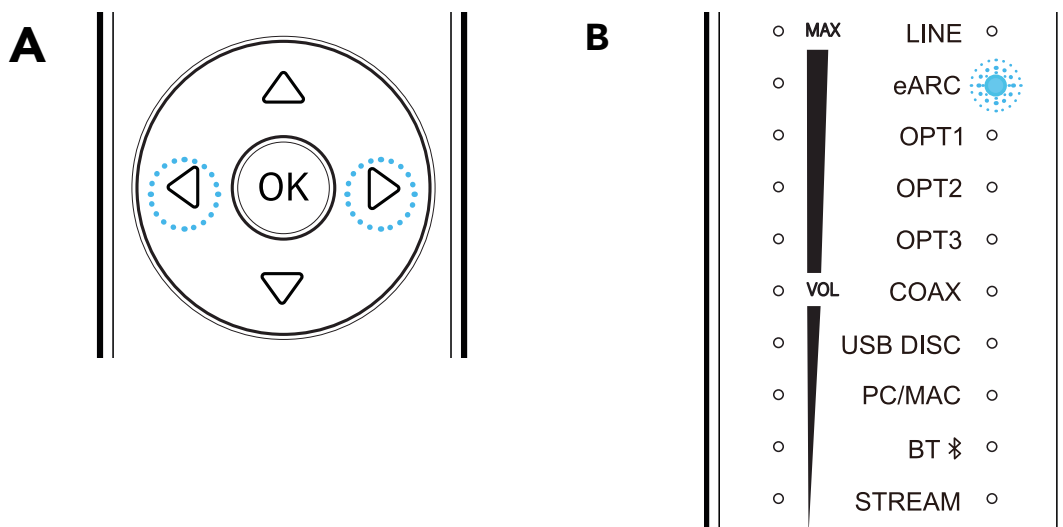
Sampling: 24-bit/192 kHz



The HDMI input allows you to connect your TV (ARC-compatible) to your Stereo Hub 2.

To do this:

- Check that your TV and HDMI cable are compatible with HDMI ARC technology. A cable of a generation higher than HDMI 1.4 is required.
- Then connect your HDMI cable between your Stereo Hub 2 and the HDMI ARC/eARC input on your TV.
- Switch on your CAPELLA 2 system by pressing  on your remote control.
- In your TV settings, ensure that your TV's audio output is set to PCM (Stereo).



- Select the HDMI input using the horizontal buttons (A) on your remote control. The indicator light next to « eARC » will light up white (B).*
- Your system is now ready to use.
- If the Stereo Hub 2 is not identified as your TV's audio output device, change your TV's input to the HDMI ARC/eARC input to establish the connection, then switch back to the desired source.

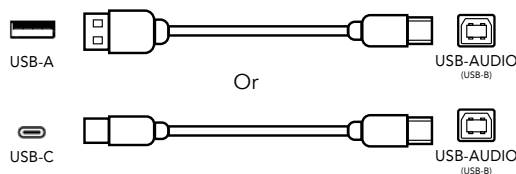


*If no source is currently selected, the Stereo Hub 2 automatically switches to the HDMI input as soon as it receives a signal.

This connection allows you to switch on your speakers at the same time as your TV and control the speaker volume using your TV remote control. Compatibility with CEC functions may vary depending on your TV model or brand.

10.D USB ONNECTION

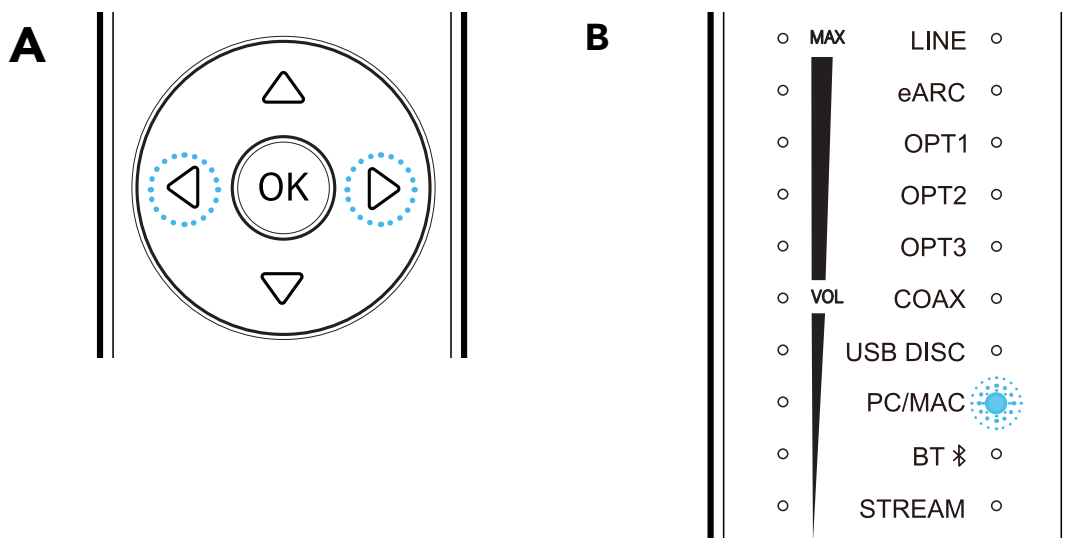
Sampling: 24-bit/192 kHz



The USB-AUDIO input allows you to connect your Stereo Hub 2 to your PC or Mac. You can use a USB-A or USB-C to USB-B cable.

To do this:

- Connect the USB cable between your Stereo Hub 2 and your computer.
- Turn on your CAPELLA 2 system by pressing  on your remote control.
- In your computer's settings, select the « Stereo Hub 2 » speakers as audio output.



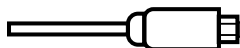
- Use the horizontal buttons (A) on your remote control to select the « PC/MAC » input. The indicator light next to « PC/MAC » will light up white (B).*
- Your system is now ready to use.



*If no source is currently selected, the Stereo Hub 2 automatically switches to the PC/Mac input as soon as it receives a signal.

10.E OPTICAL CONNECTION

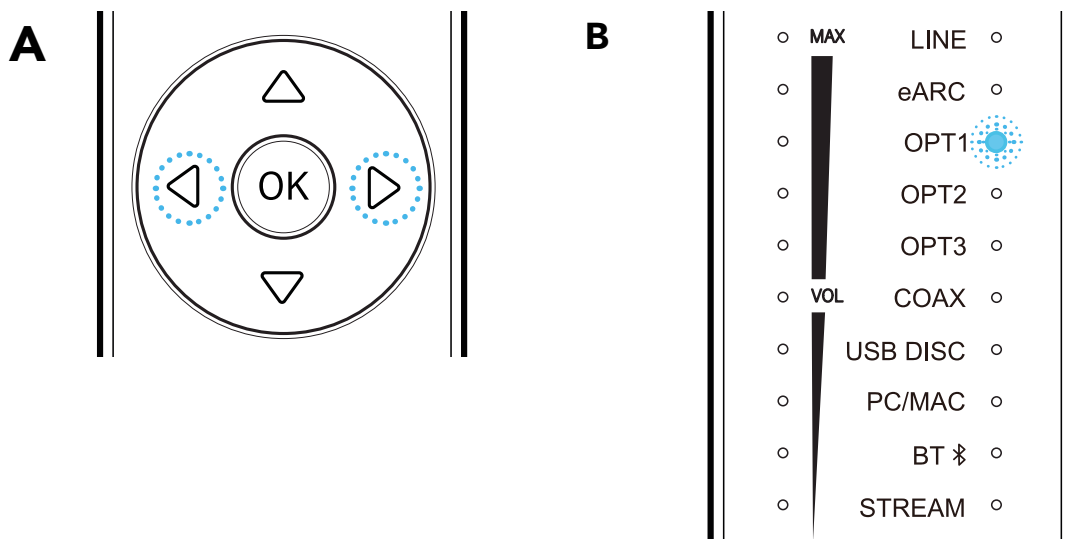
Sampling: 24-bit/192 kHz



The Stereo Hub 2 has three optical inputs (OPT1/2/3) that allow you to connect your digital audio devices with an optical output: TVs, CD players, DVD players, etc.

To do this :

- Connect your coaxial cable between your Stereo Hub 2 and your device on « OPT 1/2/3 » inputs.
- Turn on your CAPELLA 2 system by pressing  on your remote control.
- In your device settings, set the audio output to PCM (Stereo).



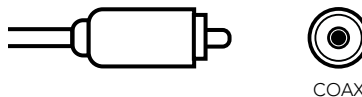
- Select the optical input using the horizontal buttons (A) on your remote control. The indicator light in front of «OPT1/2/3» will illuminate white (B).*
- Your system is now ready to operate.



*If no source is in use, the Stereo Hub 2 automatically switches to the input upon receiving a signal.

10.F COAXIAL CONNECTION

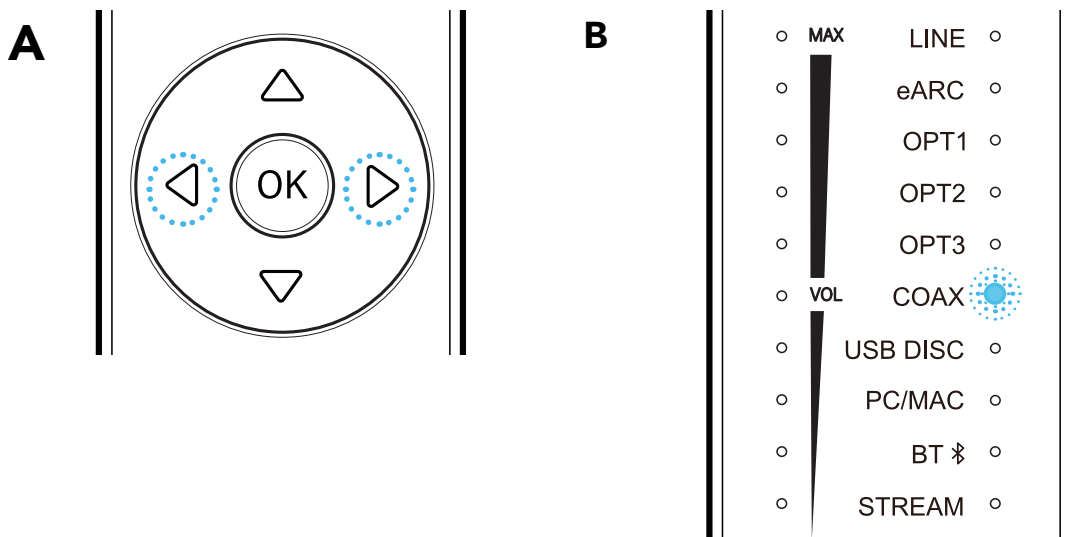
Sampling: 24-bit/192 kHz



The coaxial (COAX) input of the Stereo Hub 2 allows you to connect your digital audio devices that have a coaxial output: CD player, DVD/Blu-ray player, TV...

To do this :

- Connect your coaxial cable between your Stereo Hub 2 and your device to the «COAX» input.
- Turn on your CAPELLA 2 system by pressing the button  on your remote control.



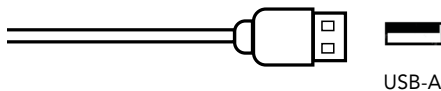
- Select the coaxial input using the horizontal buttons (A) on your remote control. The indicator light in front of «COAX» will illuminate white (B).*
- Your system is now ready to operate.



*If no source is in use, the Stereo Hub 2 automatically switches to the input upon receiving a signal.

10.G USB DISK CONNECTION

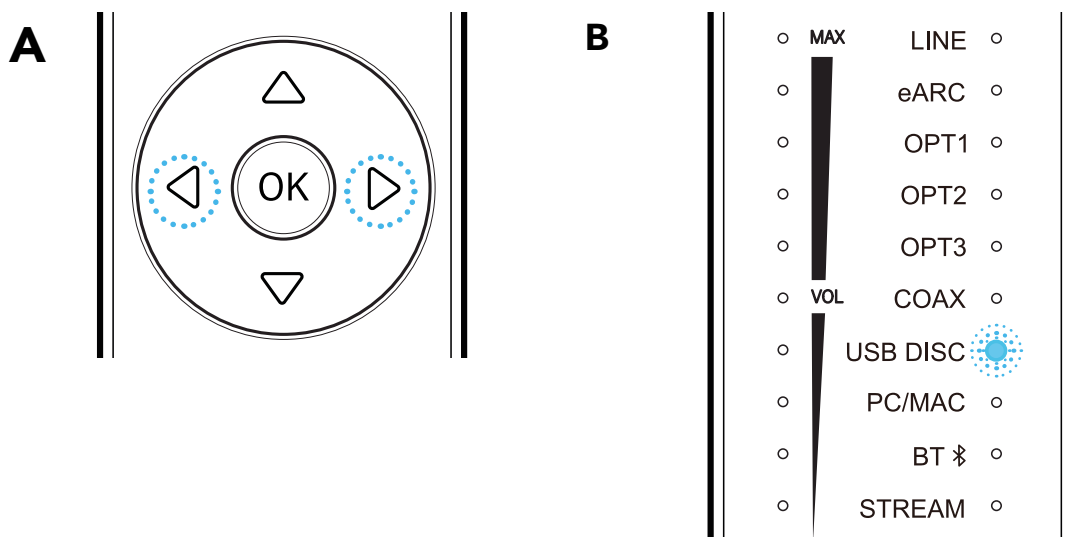
Sampling: 24-bit/192 kHz



The Stereo Hub 2 has a USB-A port, that allows the connection of USB flash drives or hard disk. Files can be managed via the CAPELLA application.

To do this :

- Connect your USB key to the USB DISC slot on your Stereo Hub 2..
- Turn on your CAPELLA 2 system by pressing the button  on your remote control..



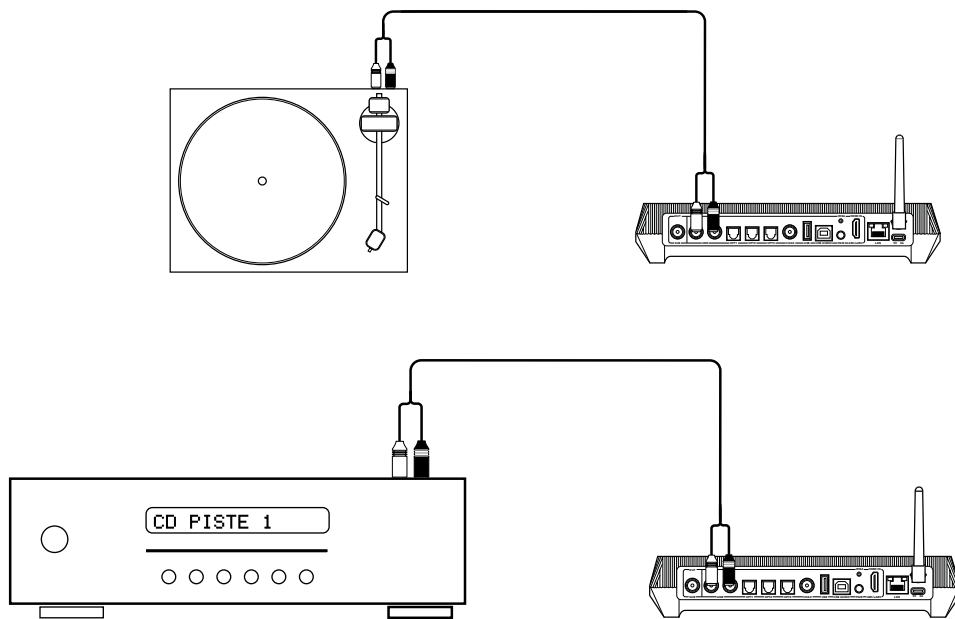
- Select the USB input using the horizontal buttons (A) on your remote control. The indicator light next to «USB DISC» will illuminate white (B).*
- Your system is now ready to use.
- Play the tracks stored on your USB drive from the CAPELLA app by pressing «Play»
- The tracks will play sequentially, in the order they appear on your file.



*If no source is in use, the Stereo Hub 2 automatically switches to the input upon receiving a signal.

10.H RCA CONNECTION

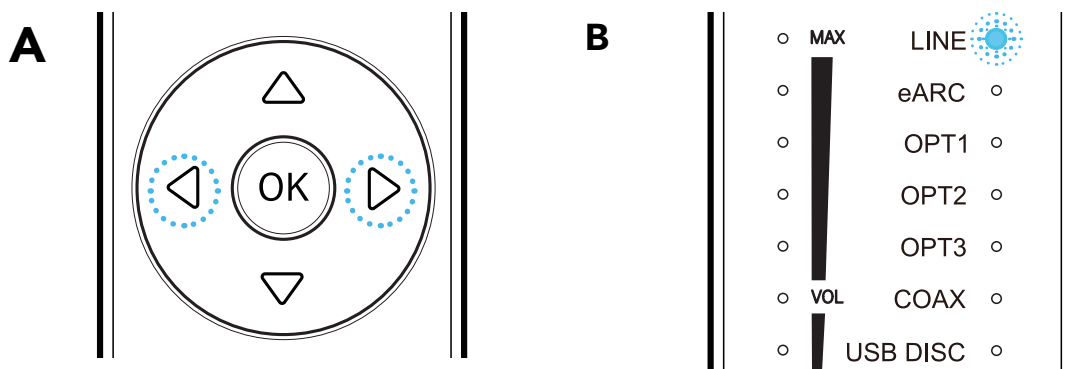
Sampling rate: 24-bit/96kHz



The LINE input allows you to connect a pre-amplified turntable, CD player, or any other source with RCA outputs.

To do this :

- Connect the RCA cables from the source to the «Line» input on your Stereo Hub 2.
- Turn on your CAPELLA 2 system by pressing the power button on  your remote control.



- Select the LINE input using the horizontal buttons (A) on your remote control. The indicator light in front of «LINE» will illuminate in white (B).^{*} Your system is now ready to operate.

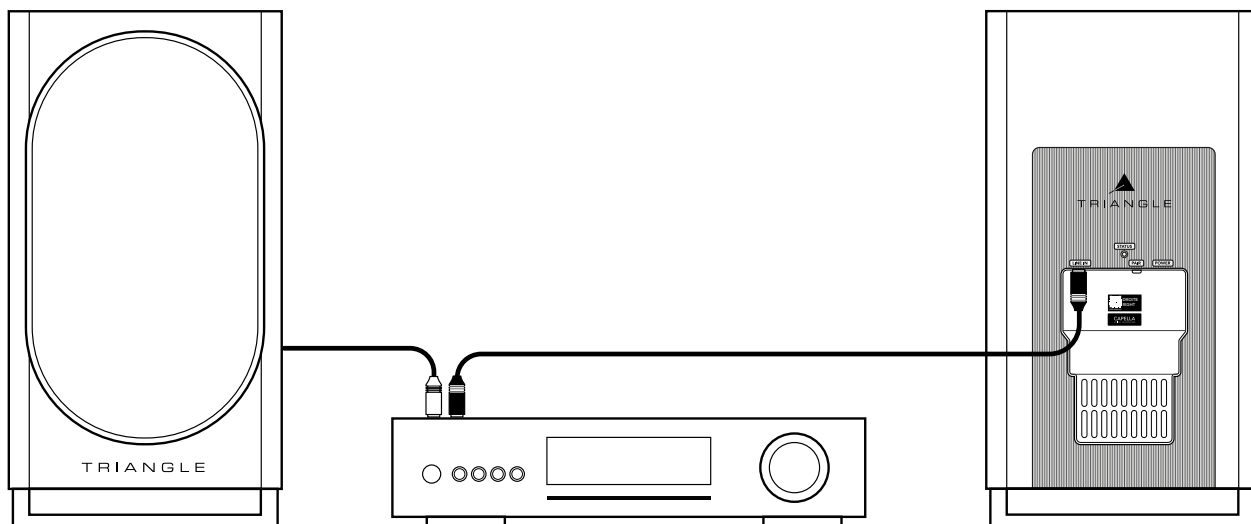


^{*}If no source is in use, the Stereo Hub 2 automatically switches to the input upon receiving a signal.

Connecting a turntable **MUST** be done with the Stereo Hub 2 switched off.
The turntable must have a phono preamp activated. CHECK COMPATIBILITY

11. CONNECTING SOURCES WITHOUT STEREO HUB 2

11.A RCA SOURCE CONNECTION



It is possible to connect your CAPELLA 2 speakers directly to a pre-amplified source (integrated amplifier/preamplifier/DAC, etc.).

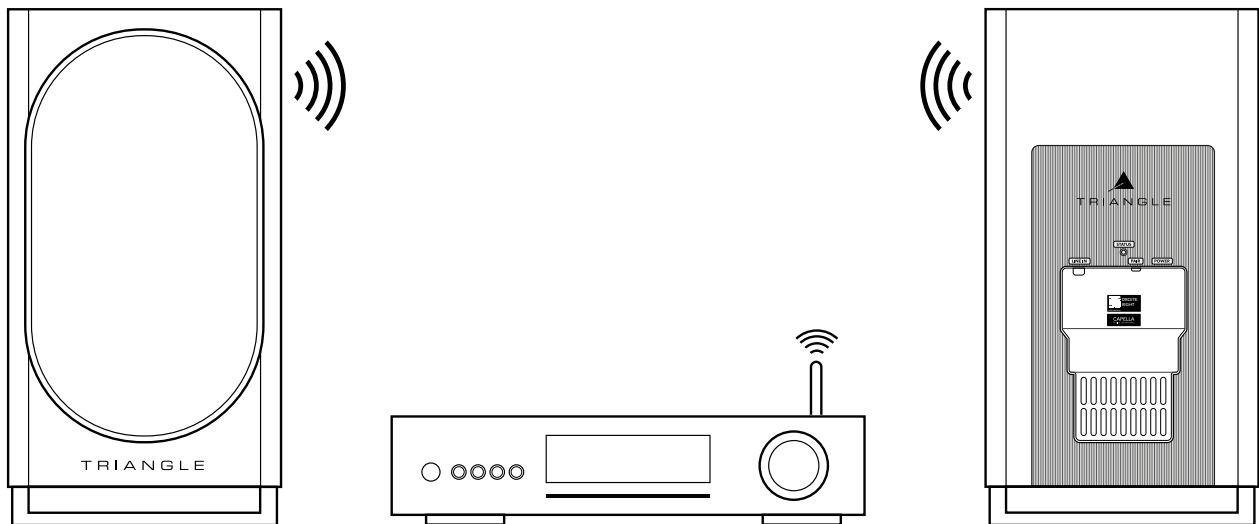
To do this:

- Connect the RCA cables from the source (preamp) to the «LINE IN» input of each speaker. The red RCA cable corresponds to the right speaker, and the black or white RCA cable corresponds to the left speaker.
- Connect the power supply to your speakers, then turn on your pre-amplified source.
- In this configuration, the speaker's status LED will turn green. The speaker will automatically switch to this input as soon as a signal is detected on the RCA connector.
- Your system is then ready to use.
- The pre-amplified source will control the volume.
- EQ settings in the app are no longer active in this configuration.



Your source **MUST** have built-in volume control in order to maintain control.

11.B CONNECTION VIA WISA SOURCE



Some sources, such as TVs/streamers/consoles, have WiSA compatibility. In these cases, you can use CAPELLA 2 speakers without the Stereo Hub 2 and connect your source directly to them.

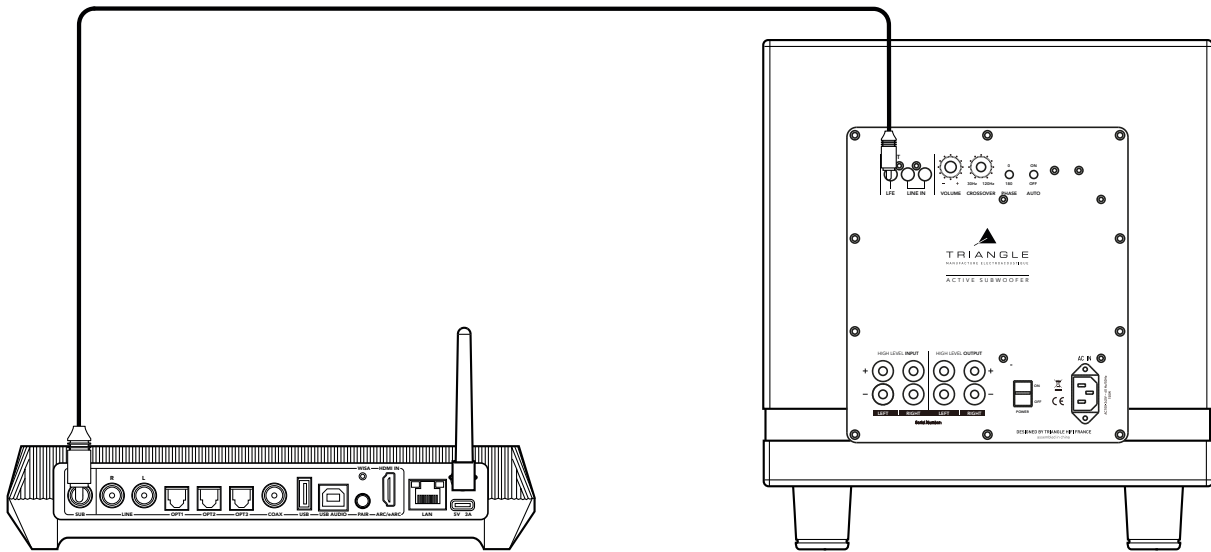
To do this:

- Connect the power supply to your speakers using the cables provided.
- The «STATUS LED» on the back of your speakers follows this protocol:
 - ▶ One orange flash
 - ▶ Then briefly turns blue
 - ▶ And finally turns off, indicating the end of the procedure (wait 1 minute for the LED to turn off)
- Next, press the «PAIR» button on each speaker for 3 to 4 seconds; the «STATUS LED» will start flashing rapidly in orange.
- Launch WiSA pairing mode on your device.
- Pairing is complete once the LEDs on both speakers remain continuously lit.
- The Stereo Hub 2 no longer interacts with the speakers. Therefore, it is no longer possible to use any connected sources, whether wired or wireless (Wi-Fi, Bluetooth, etc.). Access to various settings, such as Room EQ or Manual EQ, is also no longer available.



Your source **MUST** have built-in volume control in order to maintain control.

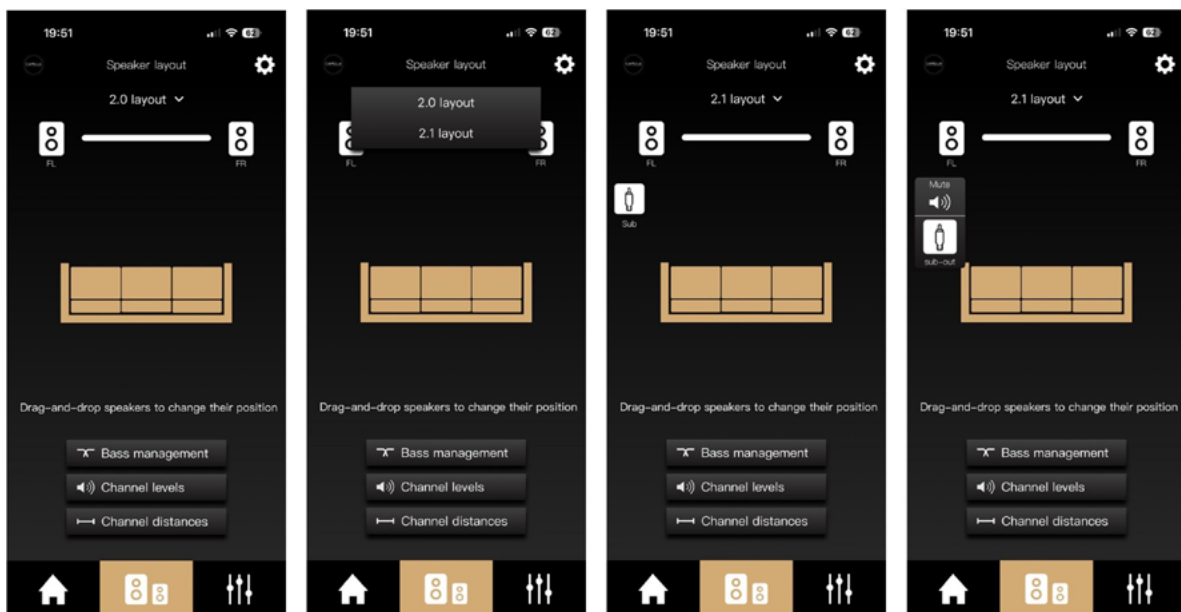
12. CONNECTION OF A SUBWOOFER



The Stereo Hub 2 features a pre-amplified output for a subwoofer. Create your own 2.1 system.

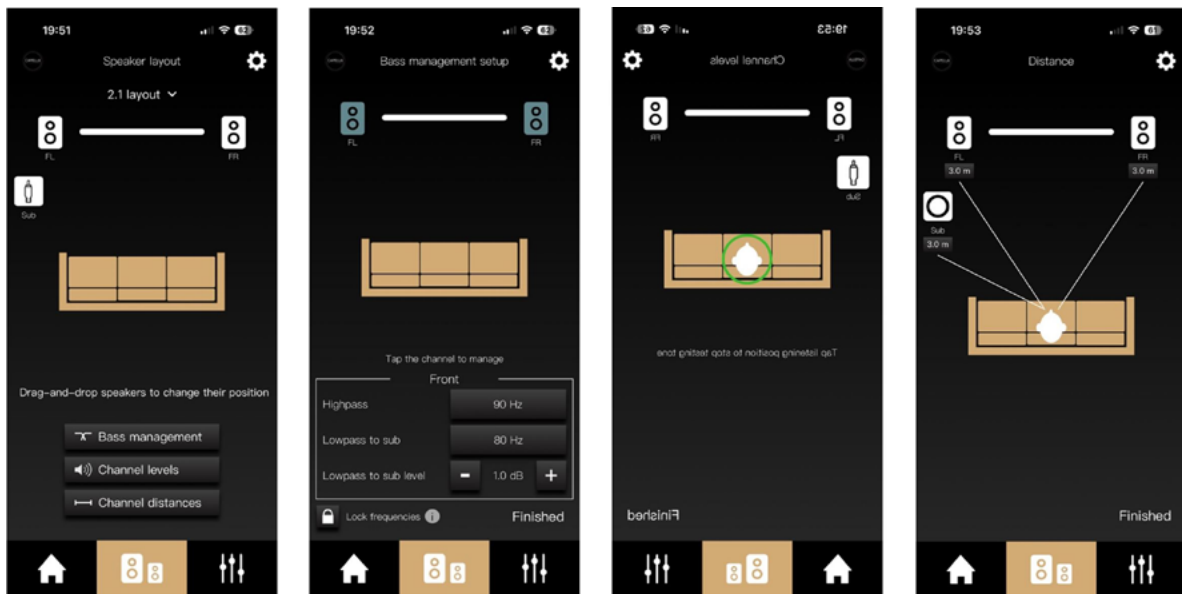
To do this:

- Connect the subwoofer cable between the «SUB OUT» output of your Stereo Hub 2 and the «LFE» input of your subwoofer.
- Turn on your CAPELLA 2 system by pressing the power button on  your remote control.
- Connect the power supply to your subwoofer and turn it on.
- Go to the CAPELLA application and then make the following adjustments:

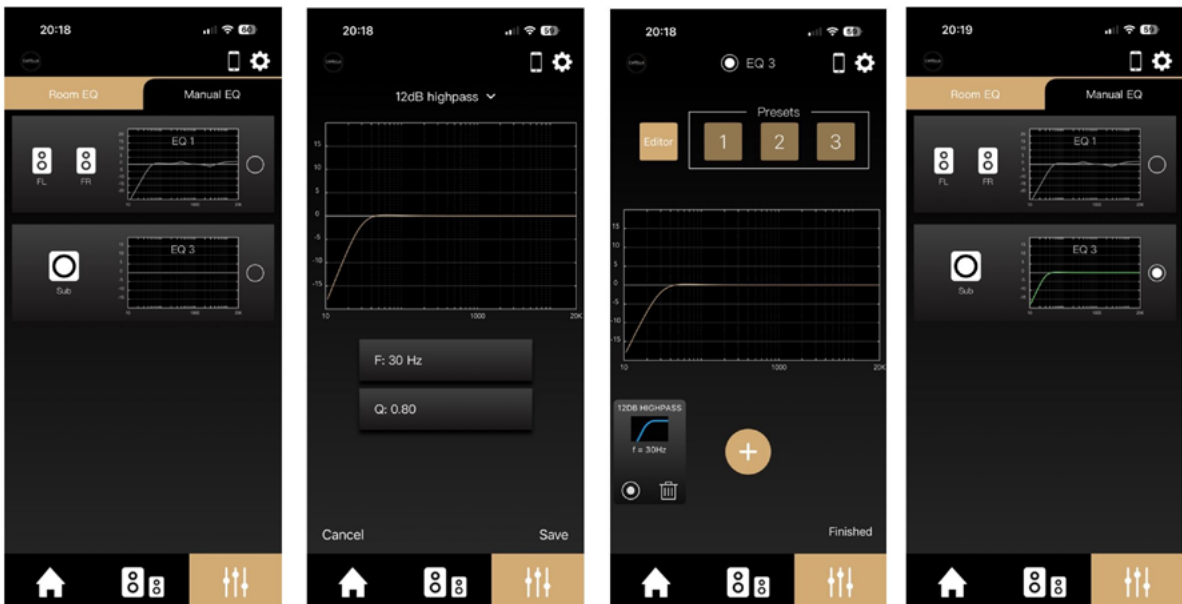


- Go to the «Speakers» page, then click on «Speaker layout» and select «2.1 layout».
- The subwoofer will then appear in the window.
- You can now turn the subwoofer on or off by clicking «Mute».

12. CONNECTION OF A SUBWOOFER (NEXT)



- Next, make these adjustments:
 - ▶ «Bass management»: Set the operating frequency of your speakers to allow the subwoofer to reproduce low frequencies. You must also define the subwoofer's cutoff frequency. You can also adjust the subwoofer level at the crossover frequency to fine-tune your settings.
 - ▶ «Channel levels»: Adjust the subwoofer level.
 - ▶ «Channel distance»: Adjust the distance between your subwoofer and your listening position.
- Your subwoofer is now configured.



- You can also activate various filters in the «Manual EQ» section. The 12dB high-pass filter might be useful to protect your subwoofer in the infrasonic range.

13.ANNEXES

- ▶ Annexe 1 : Microphone Zen
- ▶ Annexe 2 : Assignment of speakers
- ▶ Annexe 3 : ROOM EQ
- ▶ Annexe 4 : MANUEL EQ
- ▶ Annexe 5 : Spotify Connect
- ▶ Annexe 6 : Qobuz Connect
- ▶ Annexe 7 : Tidal Connect
- ▶ Annexe 8 : Roon Ready
- ▶ Annexe 9 : Deezer
- ▶ Annexe 10 : Apple Music
- ▶ Annexe 11 : Amazon Music
- ▶ Annexe 12 : YouTube Music
- ▶ Annexe 13 : TuneIn

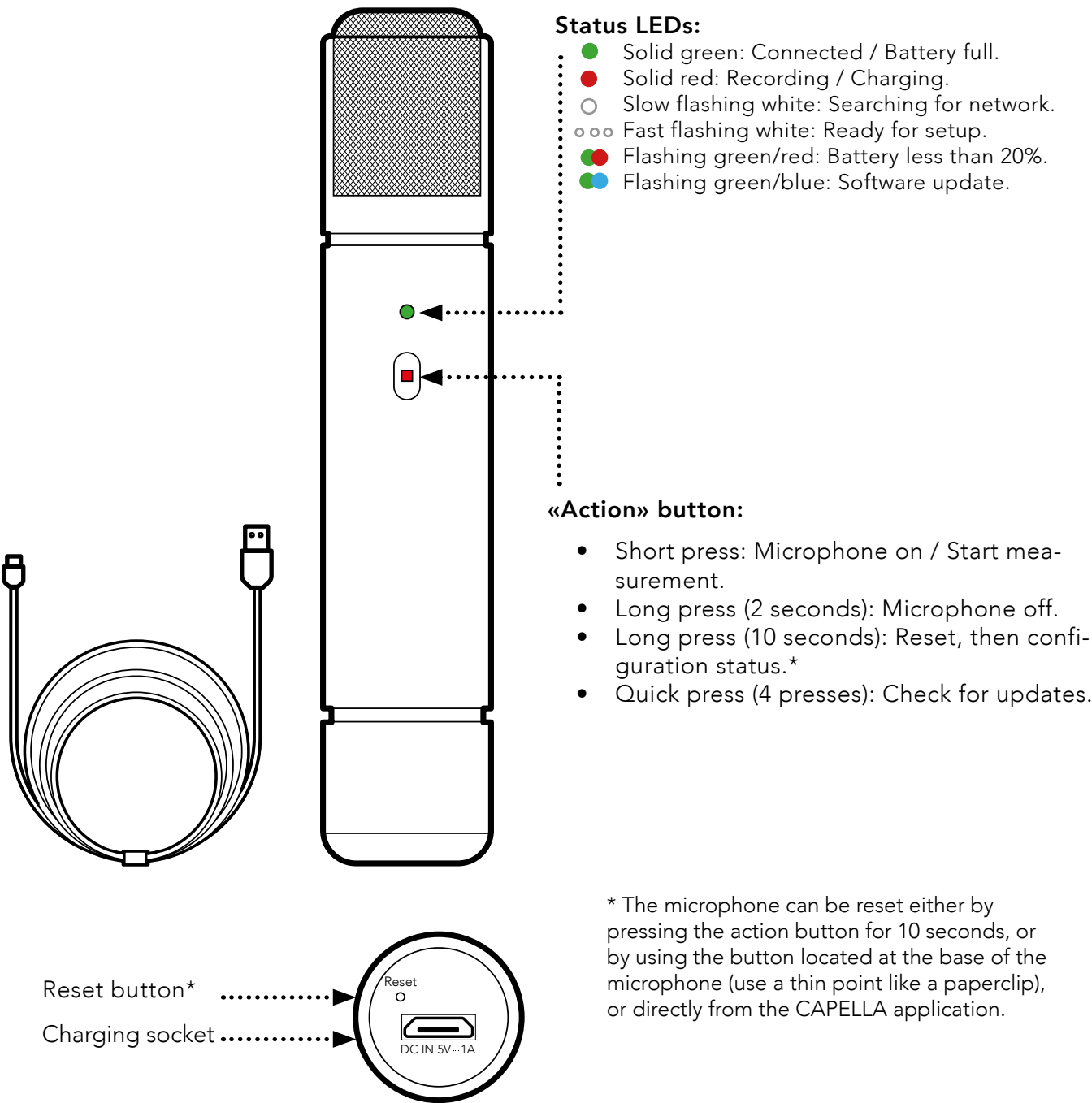
ANNEXE 1: ZEN MICROPHONE

For optimal measurements, we recommend using the ZEN microphone, which features Bluetooth and Wi-Fi wireless technologies. This microphone is compatible with Apple and Android smartphones. It collects the data and then transmits it to the CAPELLA app for analysis and calculation of the necessary correction.

*Measurements can also be taken directly from an iPhone newer than the 6s generation.
*For Android users, the ZEN microphone is essential. It is available for purchase on our TRIANGLE website (www.trianglehifi.com) and from your retailer.

Function Description:

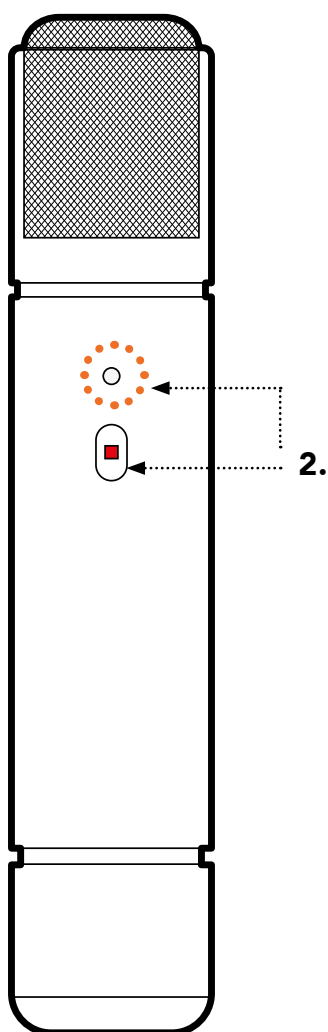
The ZEN microphone is available



The ZEN microphone comes with its USB charging cable. We recommend ensuring it is fully charged before proceeding to the next step. To do this, connect the cable between the microphone and a USB port, then wait for the LED to turn green, indicating that the battery is fully charged.

ANNEXE 1: ZEN MICROPHONE (NEXT)

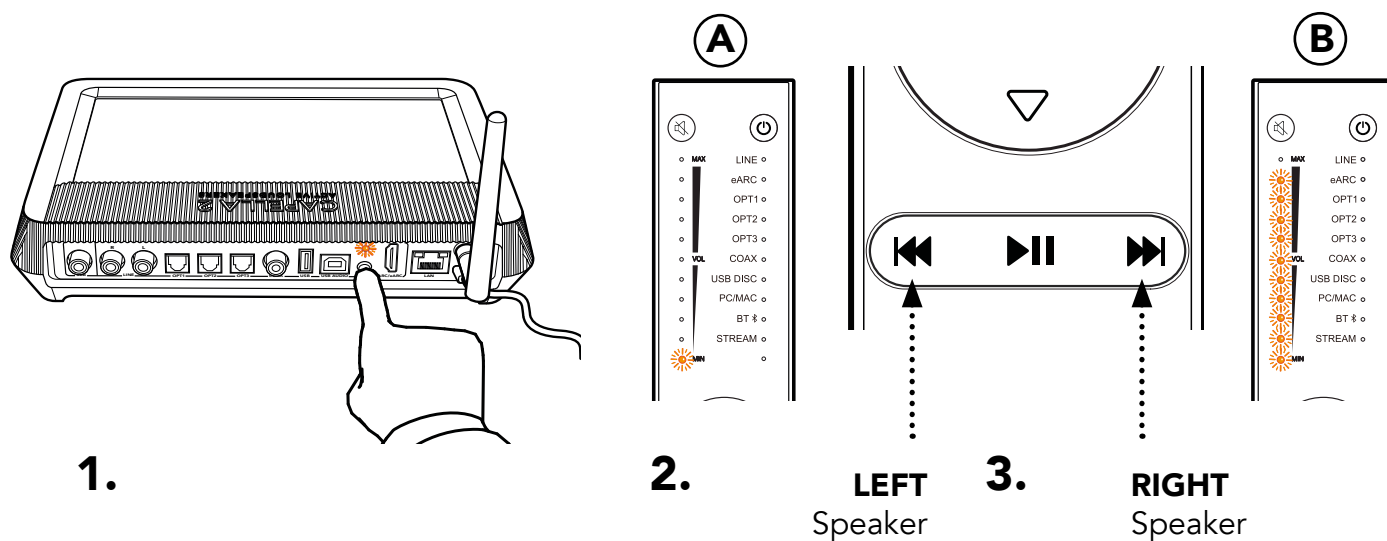
SETUP :



1. Ensure your CAPELLA 2 system is powered on and connected to the network.
2. Turn on your ZEN microphone by pressing the «Action» button (first ensure it is fully charged). The white LED will flash rapidly, indicating the microphone is ready for setup. (*If not, press and hold the «Action» button for 10 seconds to reset the microphone). Launch your CAPELLA 2 app.
3. Confirm the connection of a new device in the app.
4. Select your Wi-Fi network and enter your associated Wi-Fi password. Then tap «Connect.»
5. The app will restart. Select your CAPELLA 2 system and return to the EQ page.
6. The microphone will appear in the top right corner, next to the settings icon  on the EQ page.
7. Refer to section 9.D.3 to now perform the 'Room EQ' measurements.
8. The status of your ZEN microphone is available in the application settings. You can reset it, check its battery level, and verify the latest update.

* The microphone automatically turns off after 10 minutes of inactivity.

ANNEXE 2 : ASSIGNMENT OF LEFT AND RIGHT SPEAKERS WITH REMOTE

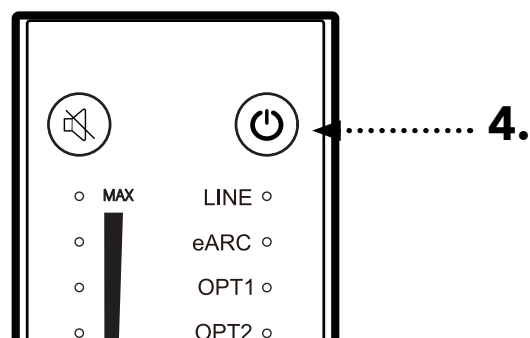


1. Press the «PAIR» button on the back of the Stereo Hub 2 three times quickly until the WiSA LED starts flashing rapidly. Stereo pairing mode is activated when you hear a «PSHIIIT» sound from one of your speakers.

2. Press the button on your remote control that corresponds to the speaker emitting sound, as shown in the diagram. One LED will light up for the left speaker (A), then nine LEDs will light up for the right speaker (B) on the remote control.

3. Press the button or to switch to the second speaker, then repeat the operation on the remote control.

4. Once the left and right channels are defined, exit «Stereo Setup Mode» by pressing the button .



ANNEXE 3 : «ROOM EQ»

The «Room EQ» function automatically calibrates your system, taking into account the acoustic constraints of your room.

Audible frequencies from 20Hz to 20kHz, as they propagate, cause various phenomena that impact your listening experience to varying degrees.

To explain these phenomena simply, we can characterize them as four diffraction zones, each zone defined by a frequency band: (example for an average-sized room)

- **Zone 1 :** From 20Hz to 40Hz. (Infrasound)
 - ▶ 440 Hz corresponds to the frequency below which uniform pressure variations occur, without any resonance «mode.»
 - ▶ In practical terms, you can move around the room without feeling any noticeable difference in this frequency range.
- **Zone 2:** From 40Hz to 250/300Hz. (Bass)
 - ▶ 250/300 Hz corresponds to the Schroeder frequency; this frequency separates the resonant and reverberant behavior of a room.
 - ▶ This range presents the most challenges for listening, with nodal resonances and standing waves. Depending on your position in the room, the level of these frequencies can vary considerably.
- **Zone 3:** From 250/300Hz to 5000Hz. (Mid-high)
 - ▶ This area has a high number of resonances and complex modes that can only be analyzed statistically.
 - ▶ The diffused sound is nevertheless easily diffracted by the physical elements in your room. The more diffracting elements there are, the more acoustically neutral your room will be.
- **Zone 4:** Above 5000Hz (High)
 - ▶ This area only concerns high frequencies (treble), which propagate like light against obstacles.
 - ▶ These frequencies are absorbed by soft surfaces and reflected by smooth, hard surfaces. The strong directivity of these frequencies is more detrimental than the room itself. In practical terms, it's best to be positioned directly in front of your speakers to benefit from all the high frequencies of the sound spectrum.

The «Room EQ» will address the most disruptive area, namely Zone 2, which deals with low frequencies.

The acoustic pressure of these frequencies reflects off the walls of your room, creating various phenomena similar to resonances, known as «room modes.» These modes operate in three dimensions and affect your listening experience depending on your position in the room; certain frequencies are reproduced at different levels.

The «Room EQ» adapts the low-frequency response to your room, giving the CAPELLA 2 speakers a significant advantage over traditional speakers, for which this type of processing is impossible.

ANNEXE 4 : MANUAL EQ

The «Manual EQ» function allows you to precisely adjust your speakers.

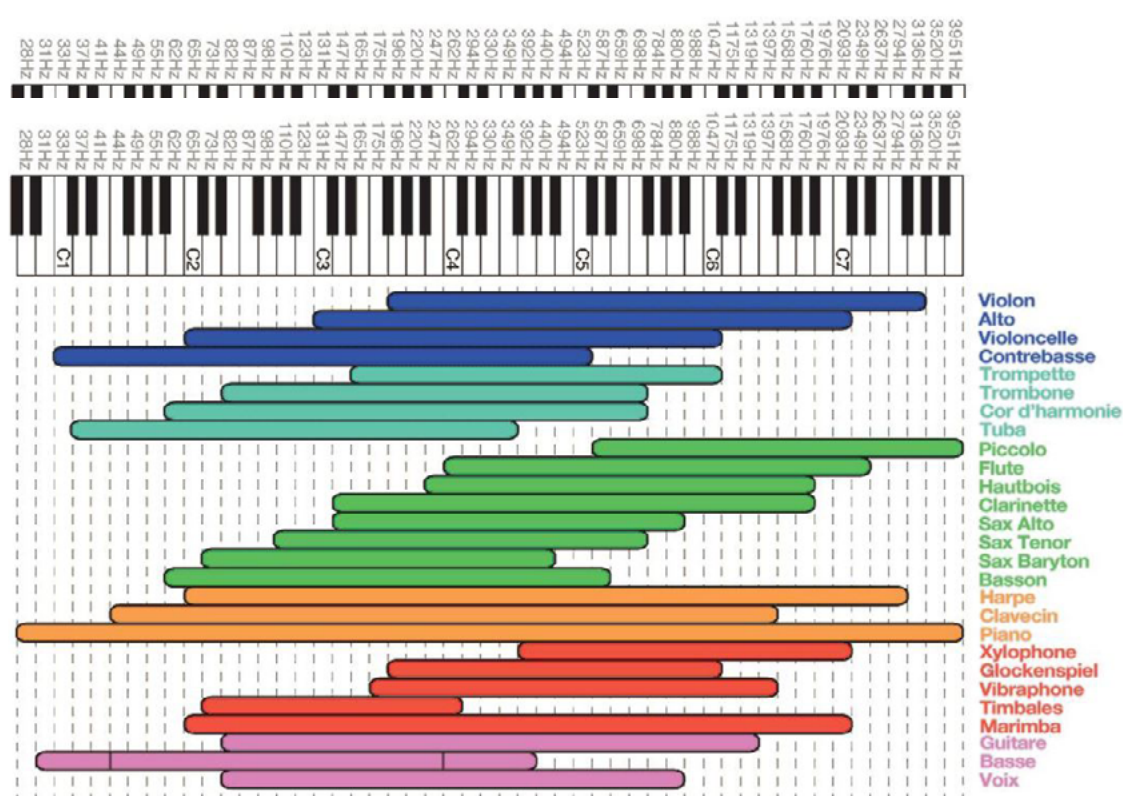
The various available settings directly affect the frequency response curve of your CAPELLA 2 system. You can therefore make these adjustments while listening to a track and see the correction made by activating/deactivating the function.

For optimal use, it's helpful to have some basic knowledge of the frequencies used and their functions. As mentioned earlier, the human ear perceives frequencies between 20Hz and 20,000Hz. Low frequencies are at the beginning (bass), and high frequencies are at the end (treble). Between these two ranges lie a multitude of nuances and details.

To help you correctly adjust your «Manual EQ» settings, we'll provide some guidelines. The audible frequency range can be divided into eight frequency bands as follows:

- Infrasound frequencies (1Hz–20Hz): reproduced, for example, by earthquakes or large organs. This is more about the feeling of a vibration than an audible sound.
- Very low frequencies (20Hz–40Hz): reproduced, for example, by a bass drum, the low notes of a piano or bass guitar. Large speakers or a subwoofer are needed to reproduce these frequencies.
- Low frequencies (40Hz–160Hz): these are the foundation of music in the bass range, providing fullness and impact. Adjusting this range is an important element of the «Manual EQ.»
- Low mid frequencies (160Hz–315Hz): reproduced by the middle C note on a piano.
- Mid frequencies (315Hz–2.5kHz): reproduced, for example, by the speaker of your mobile phone.
- The upper midrange frequencies (2.5 kHz – 5 kHz): This range is sensitive to our hearing; the frequencies emitted are close to the ear's resonant frequency.
- The high frequencies (5 kHz – 10 kHz): These are harmonics of the notes produced in the previous ranges. These frequencies are very directional and often require being directly in front of the speakers to fully perceive them.
- The very high frequencies (10 kHz – 20 kHz): These are also harmonics of the highest notes, specific to certain instruments. This range is more difficult to perceive in terms of sensitivity, as hearing deteriorates over time.

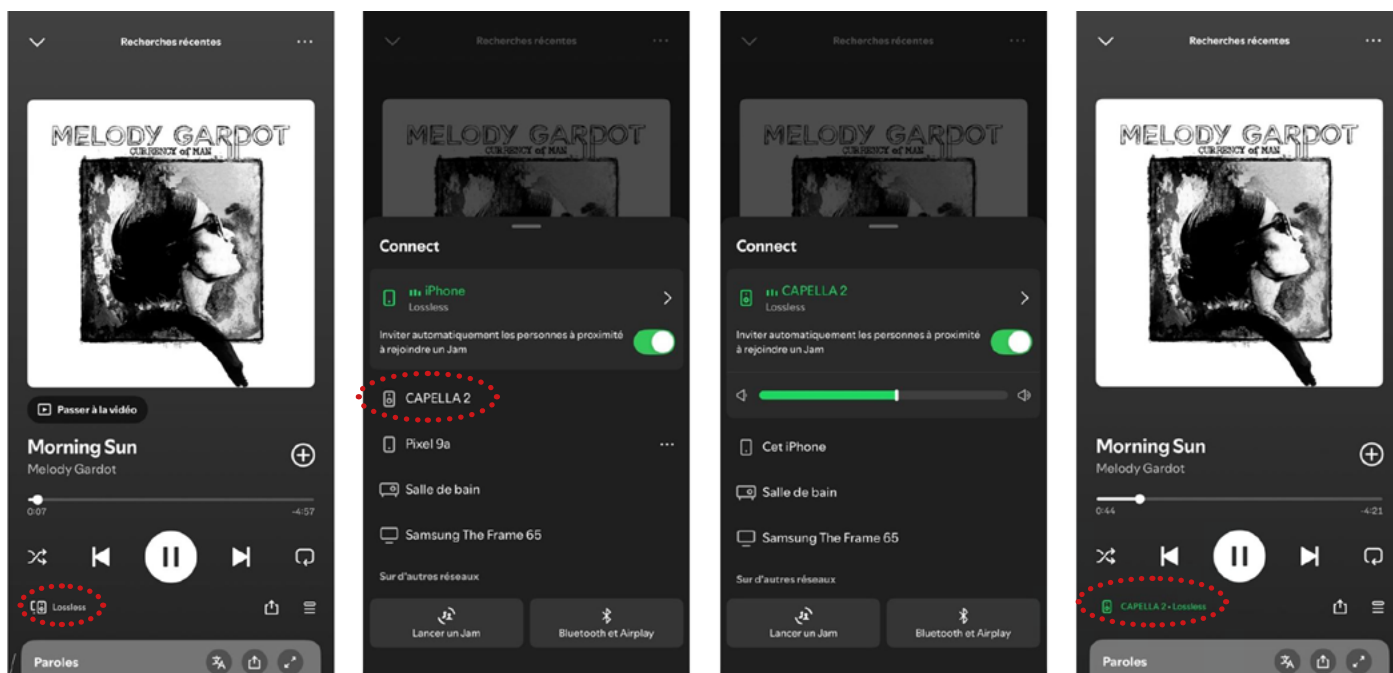
Musical instruments operate within these different zones. Here is a diagram representing their respective frequency ranges:



ANNEXE 5 : SPOTIFY CONNECT

Spotify offers its own connection solution called Spotify Connect. The Stereo Hub 2 integrates this feature and offers « Lossless » streaming up to high resolution.

Stream your music to your CAPELLA 2 system as follows:



- Launch your Spotify app on your smartphone or tablet.
- Click on the icon located at the bottom left: 
- Select your CAPELLA 2 system from the list provided.
- The icon located at the bottom left  indicates that your system is properly connected.
- You can now start playing your track.
- The Wi-Fi LED on your Stereo Hub 2 turns green when listening to music on Spotify Connect.
- Note that the music continues playing even if you close the app. You can stop it from the CAPELLA app or by reopening Spotify Connect.
- If you select a different source, the track will pause. You will need to reactivate your speakers in your Spotify Connect app and then press «Play» to resume playback; the Stereo Hub 2 will automatically switch to that source.

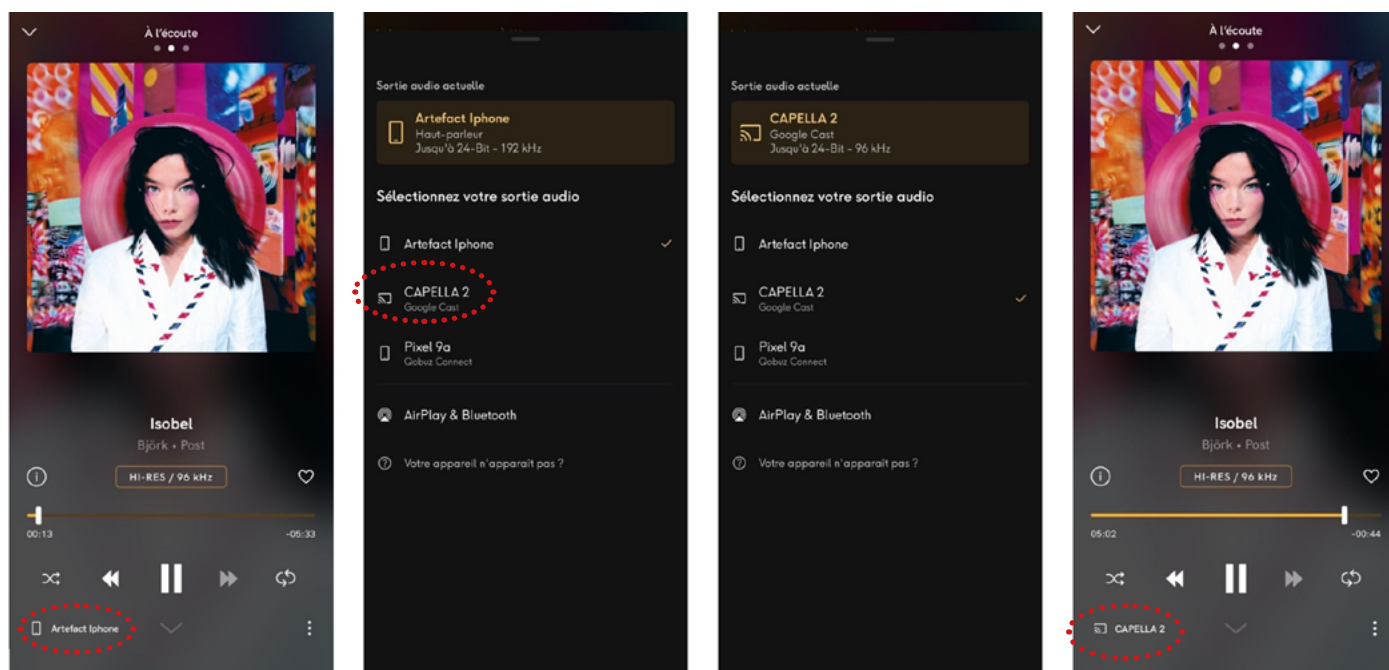


It is still possible to connect via AirPlay on iOS.

ANNEXE 6 : QOBUZ CONNECT

Qobuz offers its own connection solution called Qobuz Connect. The Stereo Hub 2 integrates this feature and offers high-resolution streaming.

Stream your music to your CAPELLA 2 system as follows:



- Launch the Qobuz app on your smartphone or tablet.
- Tap the icon in the bottom left corner: .
- Select your CAPELLA 2 system from the list.
- The icon in the bottom left corner  indicates that your system is connected.
- You can now start playing your track.
- Note that the music continues playing if you close the app. You can stop it from the CAPELLA app or by reopening Qobuz Connect.
- If you select a different source, the track will pause. You will need to reactivate your speakers in the Qobuz Connect app and then press «Play» to resume playback. The Stereo Hub 2 will automatically switch to this source.

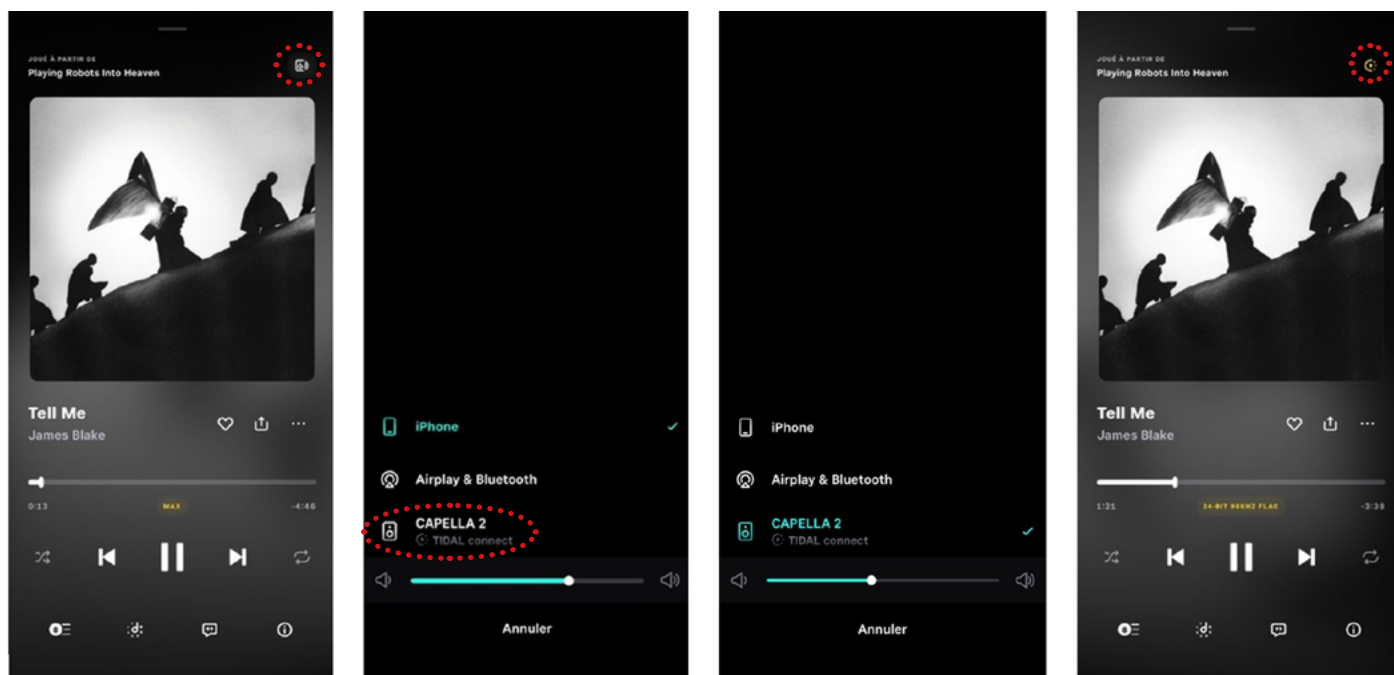


It is still possible to connect via AirPlay on iOS.

ANNEXE 7 : TIDAL CONNECT

Tidal offers its own connection solution called Tidal Connect. The Stereo Hub 2 integrates this feature and offers high-resolution streaming.

Stream your music to your CAPELLA 2 system as follows:



- Launch the Tidal app on your smartphone or tablet.
- Tap the icon in the top right corner: 
- Select your CAPELLA 2 system from the list.
- The icon located in the top right corner  indicates that your system is properly connected.
- You can now start playing your track.
- Note that the music continues playing if you close the app. You can stop it from the CAPELLA app or by reopening Tidal Connect.
- If you select another source, the track will pause. You will need to reactivate your speakers in your Tidal Connect app and then press «Play» to resume playback. The Stereo Hub 2 will automatically switch to this source.



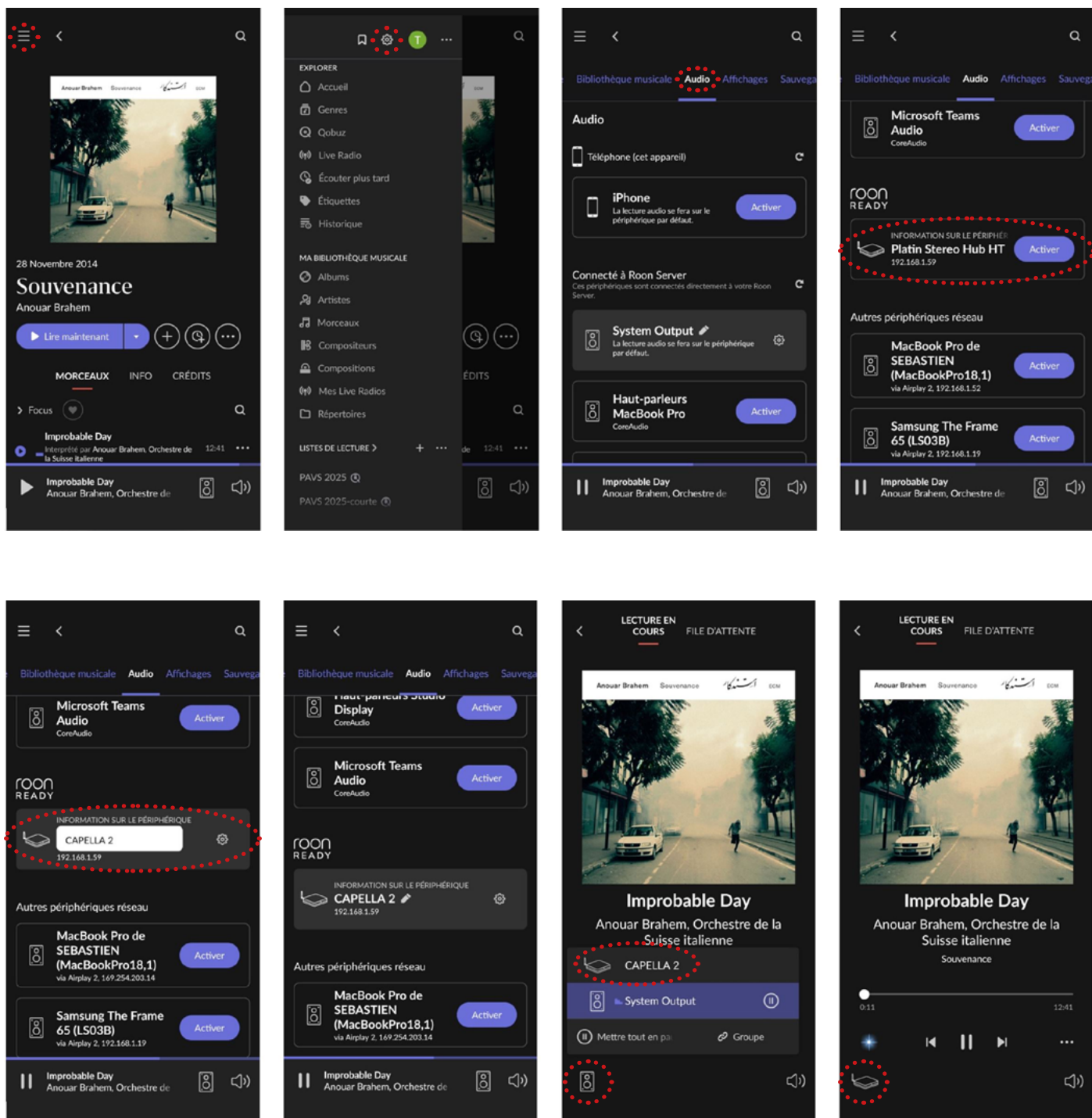
It is still possible to connect via AirPlay on iOS.

ANNEXE 8 : ROON READY

Roon offers a complete solution for managing your music stored on your local network or computer. Its advantage lies in its ability to organize all your music and streaming services into a single library and provide extensive information about your tracks and artists.

Roon has its own connectivity solution called Roon Ready. The Stereo Hub 2 integrates this feature and offers high-resolution streaming.

Stream your music to your CAPELLA 2 system as follows:



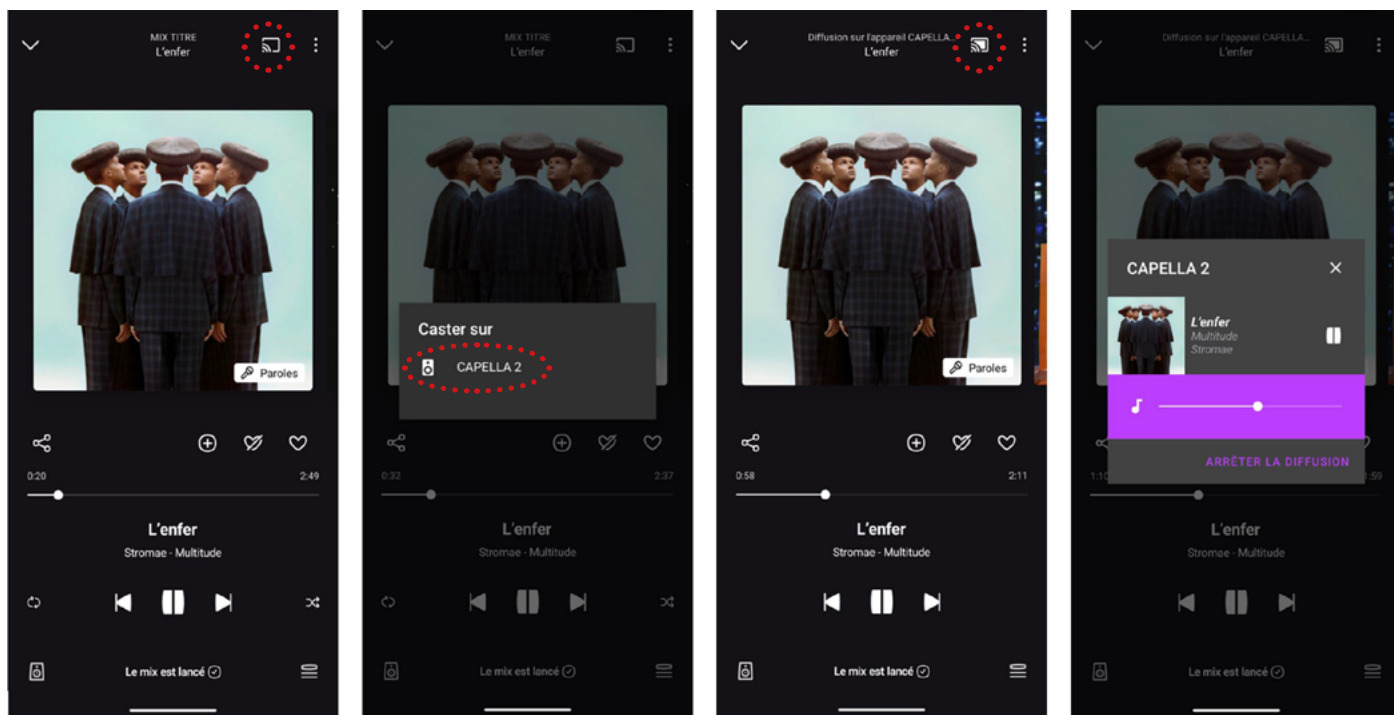
ANNEXE 8 : ROON READY (NEXT)

- First, you need to activate your speakers in the app.
- Launch the Roon app on your smartphone or tablet.
- The first time you use it, it's best to check that your CAPELLA 2 system is activated in Roon's audio settings.
- Select the Stereo Hub 2, rename it, and then activate your CAPELLA 2 system.
- Click on the icon located at the bottom left: 
- Select your CAPELLA 2 system from the list provided.
- The icon located in the top right corner  indicates that your system is properly connected.
- You can now start playing your track.
- Note that the music continues playing even if you leave the app. You can stop it from the CAPELLA app or by reopening Roon.
- If you select another source, the track will pause. If you return to your Roon app, simply tap «Play» to resume the track; the Stereo Hub 2 will automatically switch to that source.

ANNEXE 9 : DEEZER

The Deezer streaming service offers Google Cast compatibility. iOS users can also enjoy AirPlay.

Stream your music to your CAPELLA 2 system as follows:



- Launch your Deezer application from your smartphone or tablet.
- Click on the icon located in the top right corner: 
- Select your CAPELLA 2 system from the list.
- The icon in the top right corner  indicates that your system is properly connected.
- You can now start playing your track.
- Note that the music continues playing if you close the app. You can stop it from the CAPELLA app or by reopening Deezer.
- If you select another source, the track will pause. You will need to reactivate your speakers in your Deezer app and then press «Play» to resume playback. The Stereo Hub 2 will automatically switch to this source..

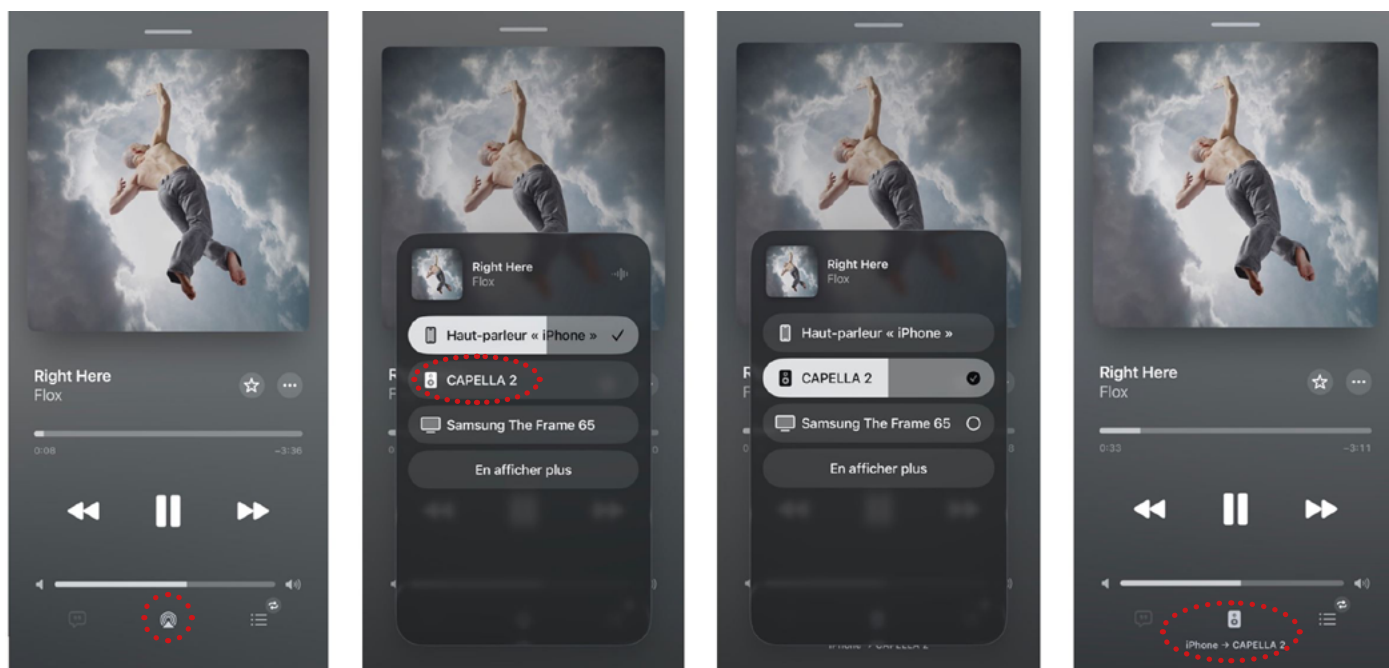


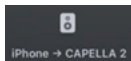
It is still possible to connect via AirPlay on iOS.

ANNEXE 10 : APPLE MUSIC

The Apple Music streaming service for iOS users offers a high-definition AirPlay connection. However, Android users will not be able to use this service.

Stream your music to your CAPELLA 2 system as follows:

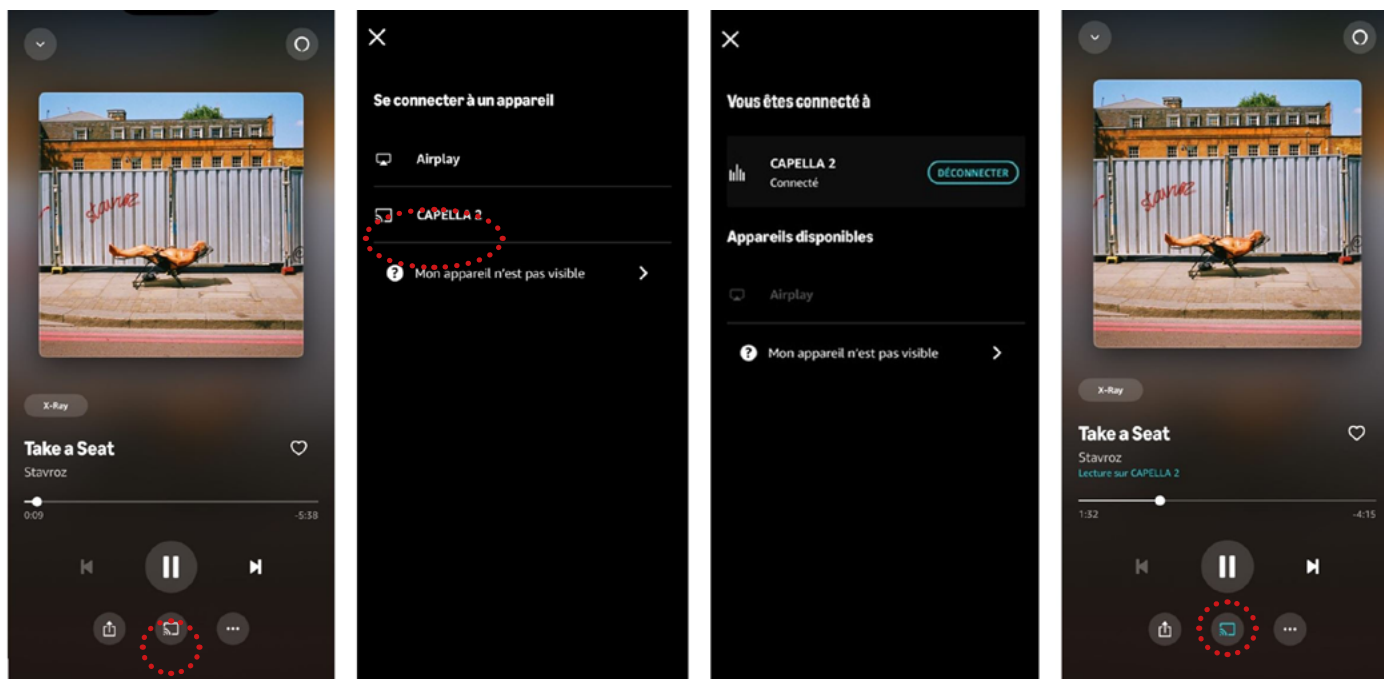


- Launch the Apple Music app on your iPhone or iPad.
- Click on the icon located in the middle at the bottom: 
- Select your CAPELLA 2 system from the list provided.
- The icon located in the middle at the bottom  indicates that your system is properly connected..
- You can now start playing your song.
- If you select a different source, the song will pause. You will need to reactivate your speakers in your Apple Music app and then press «Play» to resume playback; the Stereo Hub 2 will automatically switch to that source..

ANNEXE 11 : AMAZON MUSIC

The Amazon Music streaming service offers Google Cast compatibility. iOS users can also enjoy AirPlay.

Stream your music to your CAPELLA 2 system as follows:



- Launch your Amazon Music app on your smartphone or tablet.
- Click on the icon located at the bottom center: 
- Select your CAPELLA 2 system from the list provided.
- The icon located at the bottom in the middle  indicates that your system is properly connected.
- You can now start playing your track.
- Note that the music continues playing even if you close the app. You can stop it from the CAPELLA app or by reopening Amazon Music.
- If you select a different source, the track will pause. You will need to reactivate your speakers in your Amazon Music app and then press «Play» to resume playback. The Stereo Hub 2 will automatically switch to this source.

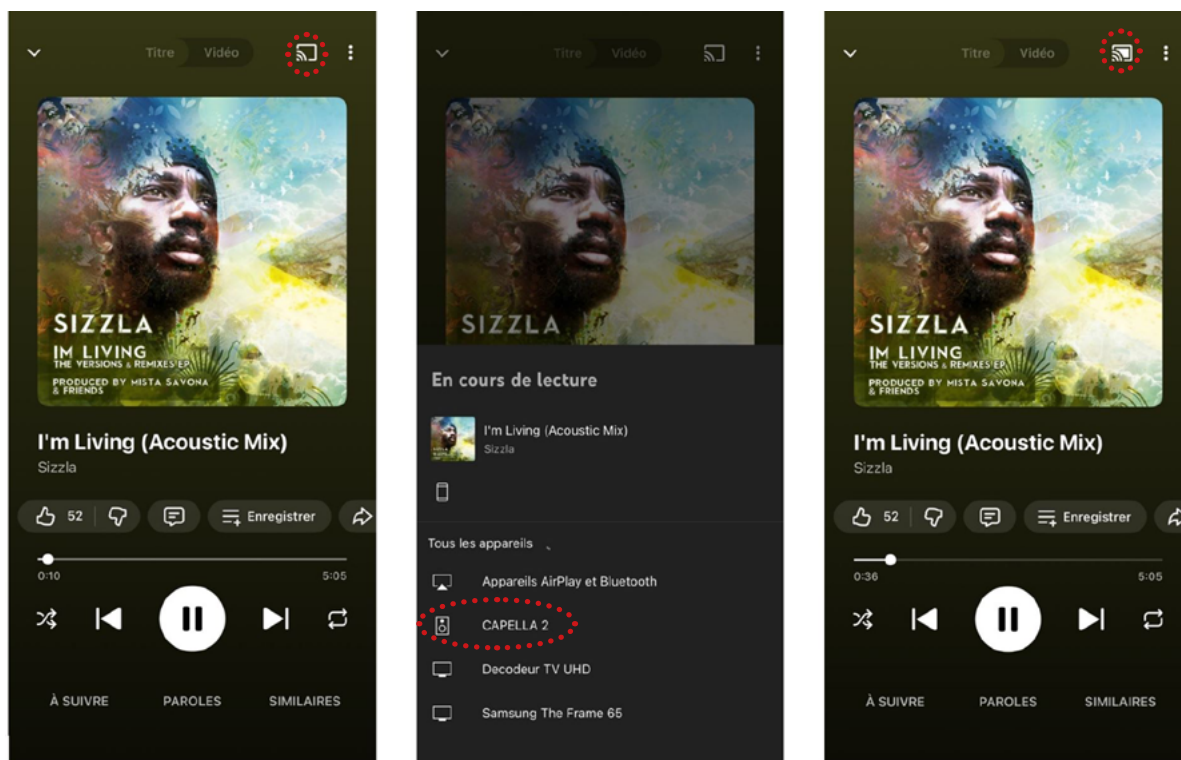


It is still possible to connect via AirPlay on iOS.

ANNEXE 12 : YOUTUBE MUSIC

The YouTube Music streaming service offers Google Cast compatibility. iOS users can also enjoy AirPlay.

Stream your music to your CAPELLA 2 system as follows:



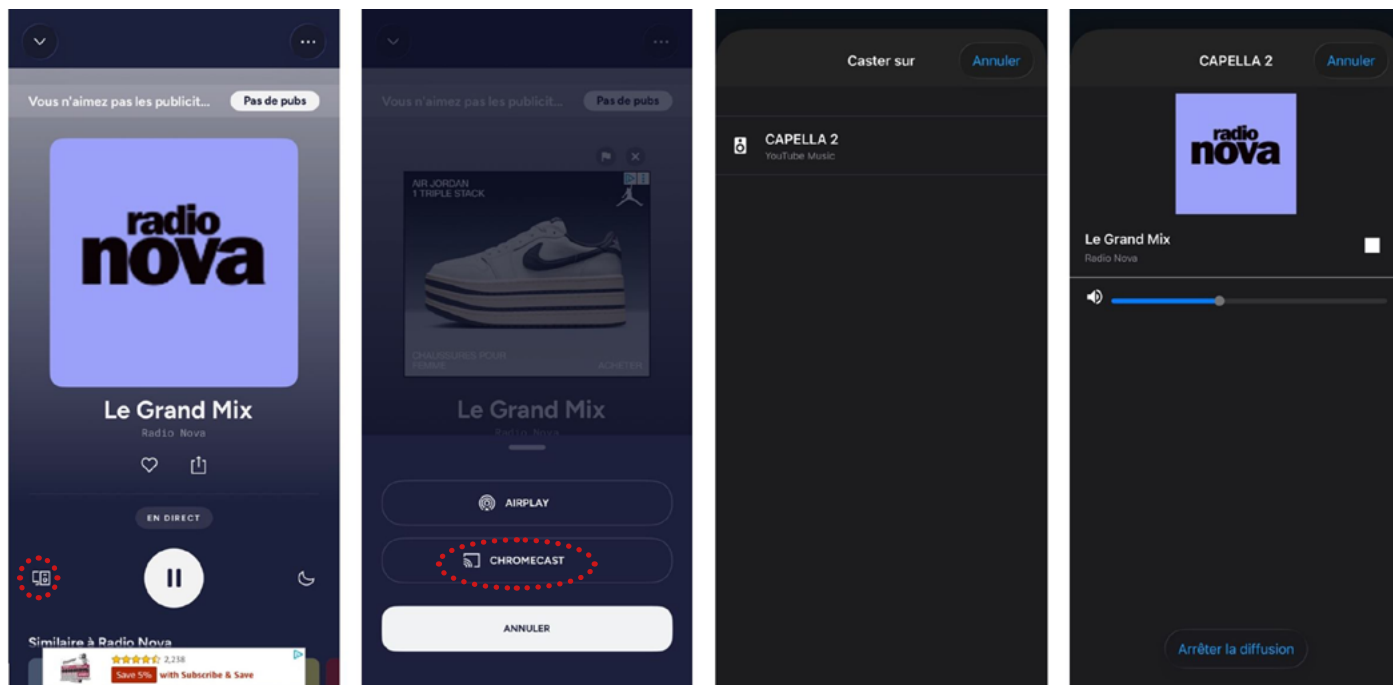
- Launch your YouTube Music app on your smartphone or tablet.
- Tap the icon in the top left corner: 
- Select your CAPELLA 2 system from the list provided.
- The icon located in the top left corner  indicates that your system is properly connected.
- You can now start playing your track..
- Note that the music continues playing even if you close the app. You can stop it from the CAPELLA app or by reopening YouTube Music.
- If you select another source, the track will pause. You will need to reactivate your speakers in your YouTube Music app and then press «Play» to resume playback. The Stereo Hub 2 will automatically switch to this source..



It is still possible to connect via AirPlay on iOS.

ANNEXE 13 : TUNEIN

The TuneIn radio streaming service offers a Google Cast compatibility. iOS users can also enjoy AirPlay. Stream your music to your CAPELLA 2 system as follows:



- Launch your TuneIn application from your smartphone or tablet.
- Click on the icon located at the bottom left: 
- Select Chromecast from the list, then select your Capella 2 system.
- You can now start playing your music.
- Note that the music continues playing if you close the app. You can stop it from the Capella app or by reopening TuneIn.
- If you select another source, the radio will switch back to your phone. You will need to reactivate your speakers in your TuneIn app and then press «Play» to restart your station. The Stereo Hub 2 will automatically switch to this source.



Some radio stations may not be integrated with the TuneIn service.

You can use another web radio service compatible with Google Cast or AirPlay, if needed.

CAPELLA 2

Technical specifications	CAPELLA 2 System
Type	Active bass-reflex speakers
Drivers diameter	25mm magnesium alloy dome tweeter 165mm cellulose pulp mid-woofer
Bandwidth	42 Hz - 22 KHz
System power	2 x 100W
Stereo Hub 2 Inputs	RCA x1 / Optical x3 / USB audio x2 / HDMI (ARC-CEC) x1 / Coax x1 Streaming: Bluetooth 5.2 / Google Cast / Airplay / Spotify Connect / Tidal Connect / Qobuz Connect / Roon ready / DLNA / UpNP
Entrances to the CAPELLA 2	WiSA / RCA
Audio Format	MP3, WMA, APE, FLAC, WAV, Apple Lossless
Dimensions (WxHxD)	200 x 380 x 315 mm 7,87 x 14,9 x 12,40 inches
Net weight of the active speaker Net weight of the stereo hub	8,5 kg / 18,8 lbs 0,8 kg 1,8 lbs
Gross weight including packaging	23,56 kg 51,9 lbs

SAFETY

SAFETY INSTRUCTIONS

WARNING: Please read all safety instructions and guidelines carefully before using the equipment.

- Keep these safety instructions and guidelines for future reference.
- Do not use the unit near water or other liquids.
- Clean only with a soft, dry, lint-free cloth.
- Do not obstruct the unit's vents.
- Do not install near a heat source, such as a radiator, stove, or any other heat-producing appliance (including amplifiers).
- Use only accessories specified by the supplier.
- Ensure the surface on which the product will be placed is sufficiently rigid to support it (stand, shelf, cabinet, etc.).
- Protect the power cord from pinching or crushing, especially at the plugs. Also protect the power input on the unit.
- Unplug the unit during thunderstorms or when not in use for extended periods.
- The plug of an electrical appliance must be compatible with the mains socket. Never modify the plug in any way. The appliance must be connected to a grounded main socket.
- Contact your authorized TRIANGLE dealer if the appliance is damaged in any way: if the power cord or plug is damaged, if liquid or an object falls on the appliance, if it is exposed to rain or moisture, if it does not function properly, or if the appliance is dropped.



WARRANTY

Congratulations on purchasing your TRIANGLE CAPELLA 2 system.

To help you get the most out of your purchase, we offer product registration. This registration will allow you to benefit from expert advice from our team, receive special offers, and obtain an additional 1-year warranty extension on your TRIANGLE speakers.

Online registration

It couldn't be simpler: you can register for free directly on our website:
<http://register.trianglehifi.com/>

Warranty Information

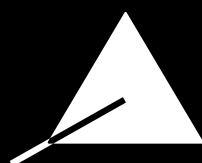
Your TRIANGLE speakers come with a 2-year warranty. This warranty is effective from the date of purchase and covers all manufacturing defects or damage that your speakers may sustain as a result of these defects. This warranty is granted only to the first user of the product and only after online registration on the TRIANGLE website. It is not transferable in the event of resale of the product. Furthermore, it will automatically be void in the event of a malfunction resulting from misuse or improper handling.

The following are excluded from the warranty:

- Voice coil burned out due to excessive power
- All malfunctions resulting from professional use (sound reinforcement, public address, etc.)
- All malfunctions resulting from storage in an excessively humid environment
- Improper use of the product (excessive volume, unsuitable amplifier, etc.)
- Punctured or torn diaphragm
- Torn suspension
- All malfunctions resulting from mechanical shock (drops, crushing, etc.)
- All malfunctions resulting from intervention by a person not authorized by TRIANGLE
- Damage to the cabinet (scratches, crushing, various impacts)



NEED HELP ?
CAPELLA@trianglehifi.com



TRIANGLE

MANUFACTURE ELECTROACOUSTIQUE