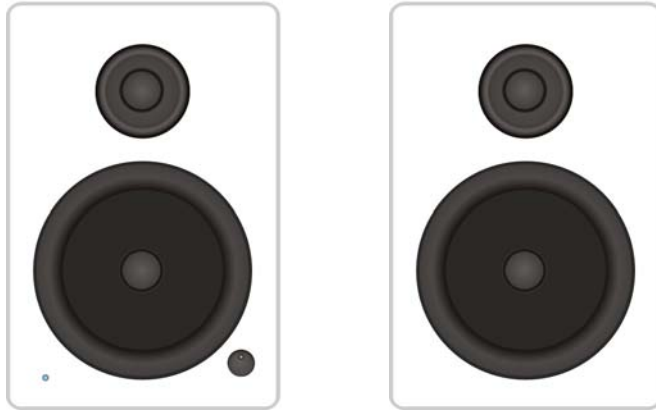


User's Manual



Calyx AL

2-Way Powered
Speaker System
for Music lovers like you

www.calyxamp.com

※ This manual may have some differences depending on the version of the product.

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1. Introduction

Music is the most important messenger of human emotion as well as a meaning of its expression since human beings appeared on this earth. Music created by amazing inspiration of many gifted composers makes people moved and our normal lives enriched.

The absolute sound and real music performed in real space like concert halls are the most important experience that makes people get to the musical essence. Besides, audio products re-producing music are a way of modern civilization making our lives better.

Since 1999, the year of establishment, **Digital & Analog Co., Ltd.** (as known as **D&A**) has been providing class-D I.C.s to various audio OEM companies. And **D&A** started to make its own high-end audio products since 2008 and as a result, we succeeded to build audio products with excellent measured performance which any other amplifiers were not able to reach so far. **Calyx** is the by-product of such an effort based on **D&A's** many experiences like designing, manufacturing and selling of class-D ICs and supporting its customers to make their audio products using **D&A's** I.C.s. **Calyx** has been tested subjectively as well as objectively under a lot of test circumstances.

A great Chinese poet 'Bai Ju Yi' of the Tang Dynasty expressed sound as followings in on of his book; "A poem has passion as its root, words as its buds, sound as its flower and meanings as its fruits" So we named our products as **Calyx**, in the meaning of corolla of music described as flower by the renowned poet.

Calyx will enrich your life as a strong support of musical flower. This coincides exactly with our slogan;

"Technology making the world affluent."

Calyx is high-end products, which you can be proud of possessing it.

Digital & Analog Co., Ltd. has developed class-D amplification technology with many patents on the technology.

From now on, we provide high-end audio products to music lovers like you

Thanks and enjoy the music.

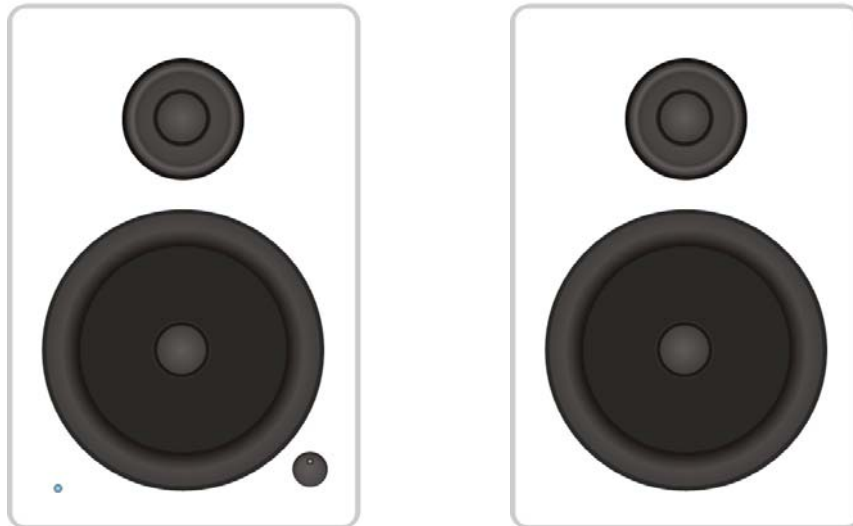
Seungmok Yi

CEO/President

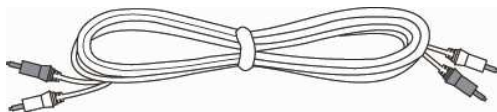


2. Unpacking

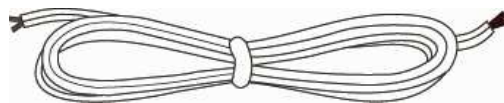
You will find in Calyx AL Speaker System Box :



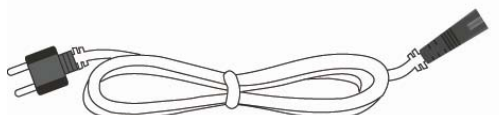
<Calyx AL>



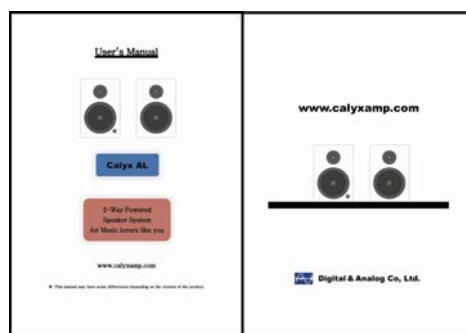
<RCA Cable>



<Speaker Cable>



<AC Power Cord>



<Manual>

<High-density foam protector / Sonic isolation pads>




If, when you open the Calyx AL Speaker System Box, the item is damaged or missed, please contact your dealer. (The AC power cord you see might be different to the real one.)

3. Important Safety Instructions

Please take a moment to read these notes before installing your Calyx Speaker System, as they will enable you to get the best performance and prolong the life of the unit.

As our engineers are striving for the constant research and development to develop the quality of products, shape or structure of our model can be changed without previous notice.

※ We advise you follow all instructions, heed all warnings and keep the instructions for future reference.

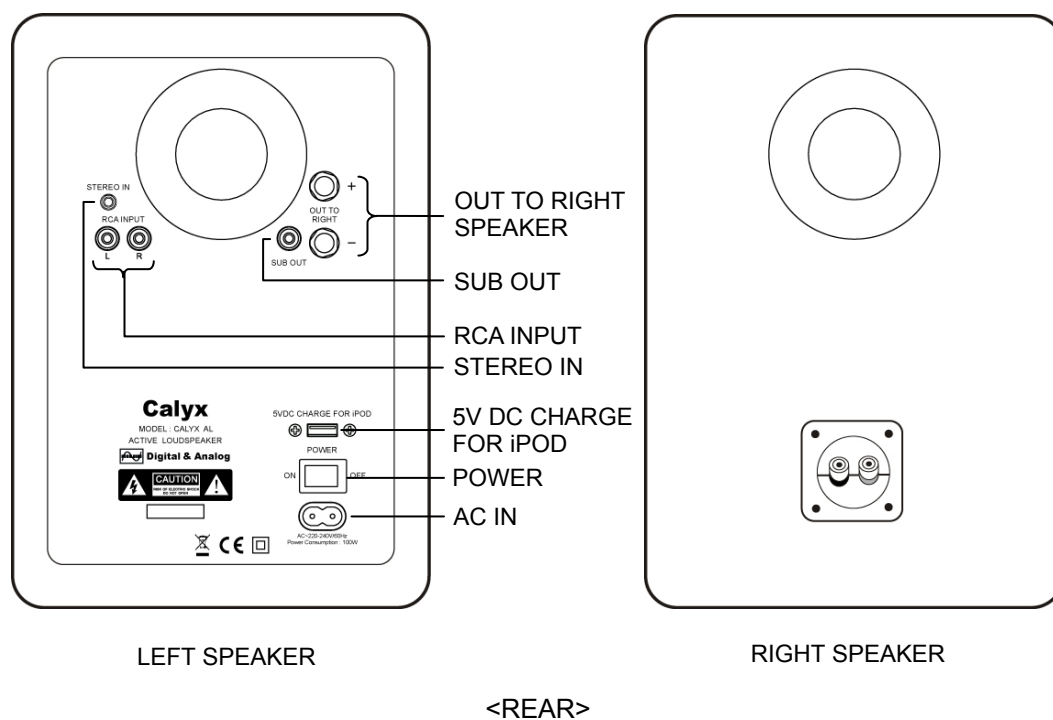
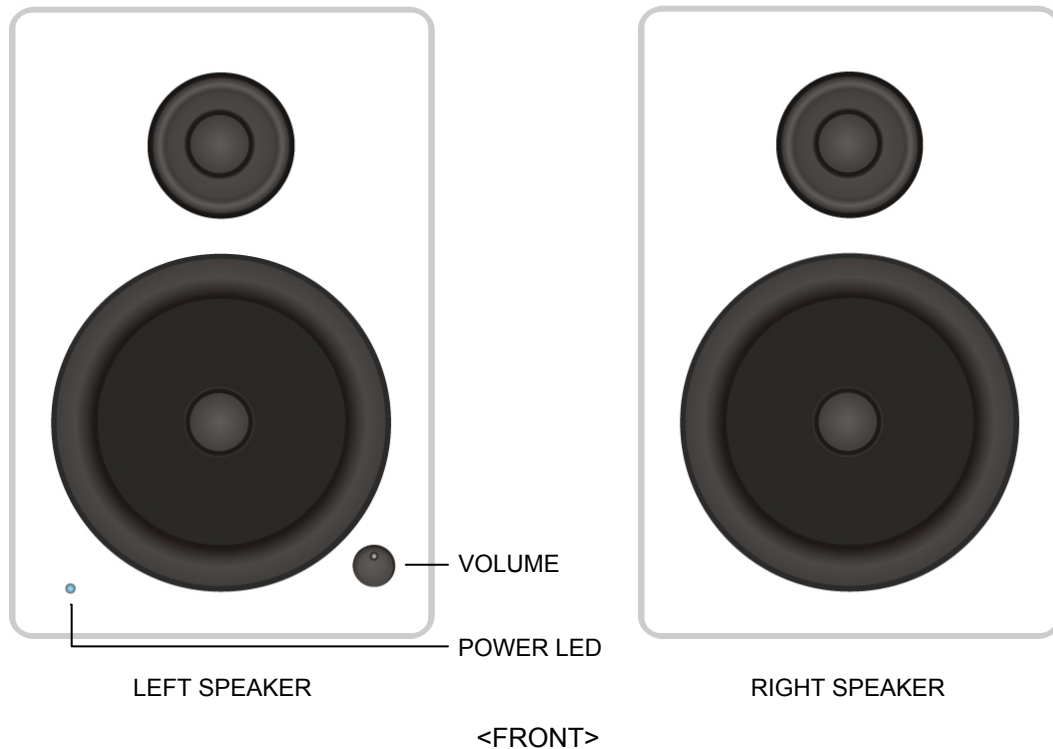
	
	<p>This symbol indicates that dangerous voltage which can cause electric shock is present inside this unit.</p>
	<p>This symbol alerts you to important operating and maintenance instructions accompanying the unit.</p>
<p>"□" This symbol means that this unit is doubled insulated. An earth connection is not required.</p>	
<p>Do not overload outlets, extension cords or integral convenience receptacles.</p> <ul style="list-style-type: none"> ▶ This can result in a risk of fire or electric shock. <p>Never touch the power cords or the unit with wet hands.</p> <ul style="list-style-type: none"> ▶ This can result electric shock. <p>Never use the frayed or damaged or cracked or broken power cords.</p> <ul style="list-style-type: none"> ▶ This can result in a risk of fire or electric shock. <p>Do not expose the unit to rain or moisture. Do not use this product near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, near a swimming pool, or anywhere else that water or moisture are present</p> <ul style="list-style-type: none"> ▶ This can result in a risk of fire or electric shock.. <p>Do not expose the unit to direct sun radiation. Do not install near any heat sources, such as radiators, heat registers, stoves or other apparatus that produce heat.</p> <ul style="list-style-type: none"> ▶ This could lead to overheating and malfunction of the unit. <p>During thunderstorms, disconnect the power cords from the wall outlet.</p> <ul style="list-style-type: none"> ▶ Voltage peaks due to lightning could damage the unit. <p>Do not put any objects on top of the unit.</p> <ul style="list-style-type: none"> ▶ If the objects fall, it may cause harm to the user. <p>Do not move the unit, while it is powered on.</p> <ul style="list-style-type: none"> ▶ This can cause harm to the unit <p>Do not place the unit on an unstable surface or shelf.</p> <ul style="list-style-type: none"> ▶ If the unit falls, it may cause harm to the unit or to the user. <p>Do not use attachments not recommended by your dealer</p> <ul style="list-style-type: none"> ▶ This may cause harm to the unit 	<p>To clean the unit, please follow next instructions.</p> <ul style="list-style-type: none"> ▶ Wipe its case with a dry, lint-free cloth. <p>Do not use any cleaning fluids containing alcohol, ammonia or abrasives.</p> <p>Do not spray an aerosol at or near the product.</p> <p>Unplug this product from the wall outlet before cleaning.</p> <p>Do not listen to loud music for a long time.</p> <ul style="list-style-type: none"> ▶ This may cause harm to user's hearing ability <p>Only Use attachments or accessories specified by the manufacturer.</p> <p>Do not block any ventilation openings. Install in accordance with the manufacturer instructions. To ensure reliable operation of the product and to protect it from Please ensure there is ample ventilation. For example, do not place the product on a bed, sofa, or similar surface that may block the ventilation openings. Do not put it in a built-in system, such as a bookcase or a cabinet that may keep air from flowing through its ventilation openings.</p> <p>Use proper power sources. Plug the product into a proper power source, as described in the operating instructions or as marked on the product.</p> <p>Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.</p> <p>Servicing is required when the apparatus has been damaged in any way such as power supply cord or plug is damaged ; liquid has been spilled or objects have fallen into the important safety instructions apparatus ; the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped. Do not attempt to service this product yourself. Opening or removing covers may expose you to dangerous voltages or other hazards.</p>

※ If the product needs to repair, please contact the calyx service center.

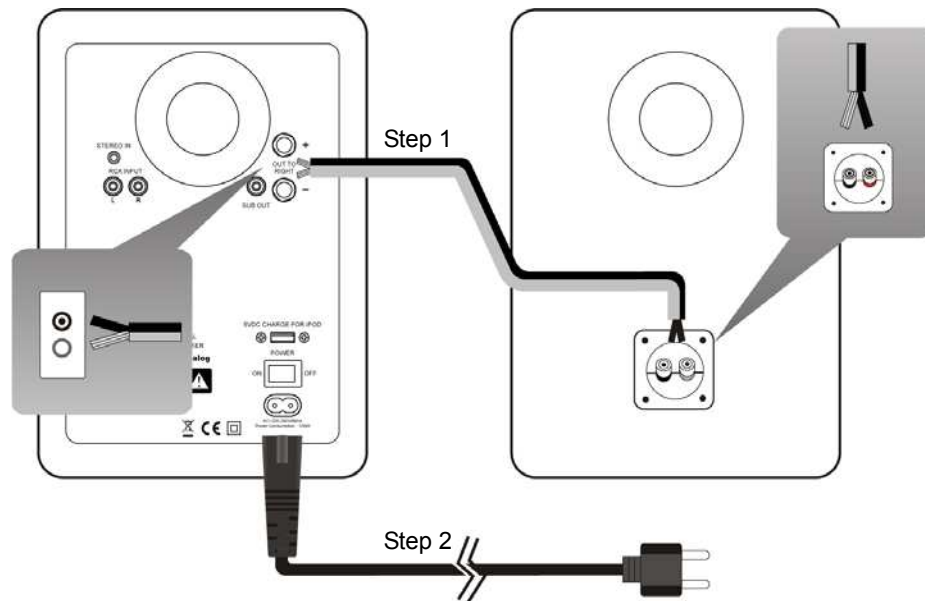


4. Installation

Before you begin installation, you should not make any connections to the Calyx AL Speaker system or to any other component in your system whilst the AC power supply is connected and switched on.



◆ Connection



Step 1. SPEAKER WIRE CONNECTION

Connect the RED (+) and BLACK (-) terminals from the left speaker to the corresponding terminals on the right speaker using a speaker wire. Be sure to match the red-colored side of the speaker wire with the RED (+) terminals and the black-colored side to the BLACK (-) terminals on each speaker.

Note : As the Calyx AL Speaker system is self-powered, do not connect the speaker terminals to the speaker outputs of a stereo receiver.

Detailed procedure :

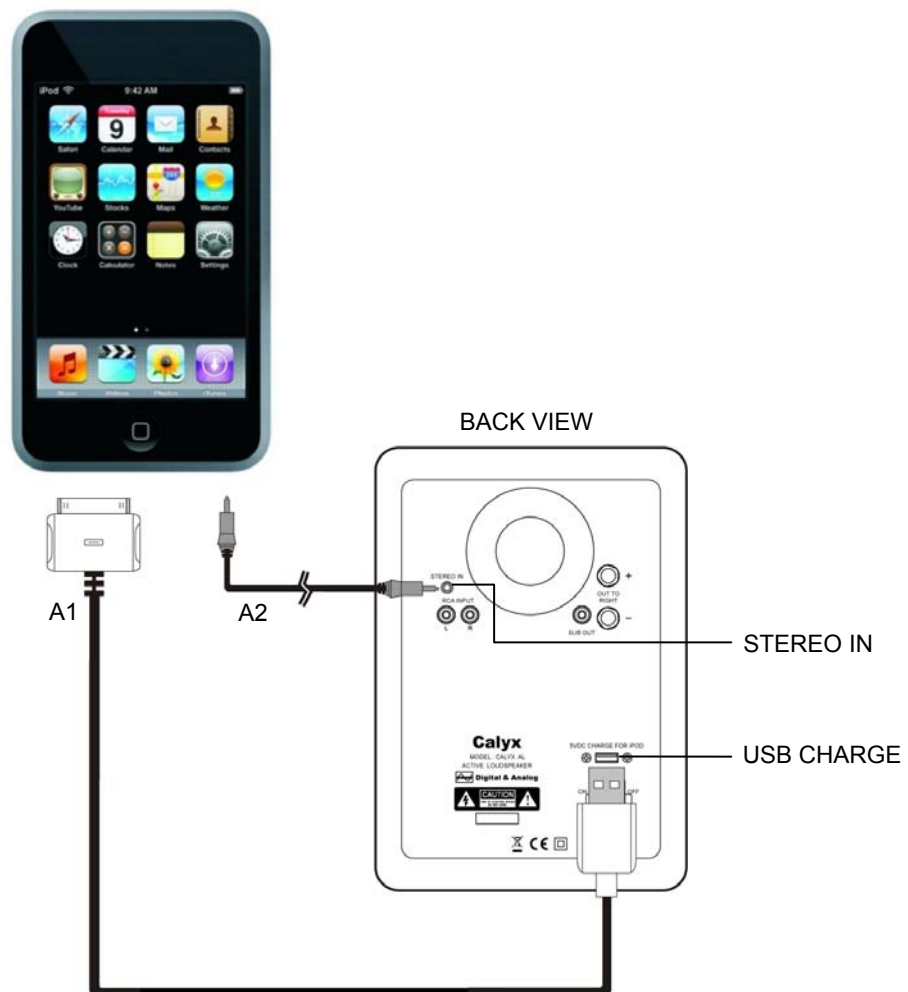
- Remove the pre-cut insulation on the end of the speaker wire and twist the exposed wire strands 2-3times.
- Use your thumb and finger to unscrew the binding post connector.
- Insert each speaker wire into the holes on the side of binding post connector.
- Retighten the binding posts. The stripped wire portion should be secured firmly in the connector.
- Repeat the procedure to connect the other end of the speaker wire to the other speaker. Be sure to match the wire color to the same terminal color on each speaker. Also make sure that none of the speaker wire strands have come in contact with an adjoining terminal.

Step 2. POWER CABLE CONNECTION

Verify that the voltage selector switch is set to the proper voltage for your area.

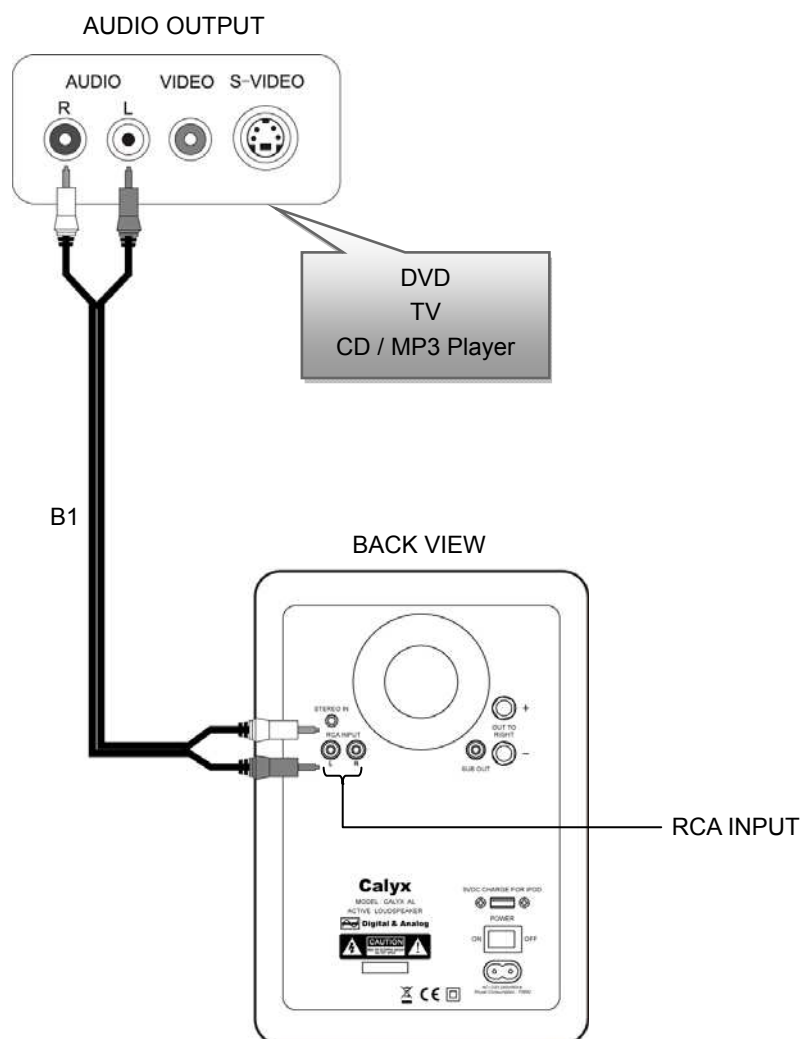
Connect the power cord into the left speaker and the other end into the wall outlet.

◆ Configuration A (for use with iPod or portable players) :



- A1. For charging your iPod (or the portable players) while playing, connect the 30-pin cable from the iPod (or the portable players) to USB jack on the Combo port. Use a USB extender cable if extra cable length is needed (for use on a desktop, for example).
- A2. Connect the long 1/8" mini-jack audio cable from iPod (or the portable players) headphone jack to the STEREO IN jack on the Combo port.

◆ Configuration B (RCA outputs)



B1. Connect RCA INPUT L/R from any audio source with RCA L/R audio outputs.

◆ Recommended Speaker Setup

It is true that proper speaker placement has a huge impact on sound quality. There are many different theories, but all rooms and tastes are different so it's impossible to specify a correct placement. We do suggest you experiment with a few different locations to see what works for you.

As a general rule of thumb for the best soundstage balance, the speakers should be equidistant from side walls and a different distance from rear walls. For the best bass response on Calyx Speaker System, we recommend that you keep a minimum distance of 6-12" between the rear of the speakers and the rear wall. For height, position the speakers with the tweeters at eye level of your most common listening position.

◆ Speaker Conditioning and Break-in

Although a break-in period is not required, we recommend that you play between 24 to 48 hours of music through the speakers before doing any critical listening or speaker placement. Just set your iPod to "Repeat All" and adjust the volume to normal listening level. You can check out all that old stuff in your library and your neighbors will absolutely love you for it.

◆ Speaker Cleaning

We don't recommend using solvents or cleaners on Calyx cabinets or speakers. Just wipe down with soft, dry cloth.

6. Trouble-Shooting

Problem	Check
If the front panel LED does not light up, check...	<ul style="list-style-type: none"> ▶ that the AC power cord is firmly plugged into the rear panel and wall outlet. ▶ to make sure the speaker rear panel power switch is ON. ▶ that the speaker is getting power from the wall outlet. ▶ that the rear panel voltage selector is matched to the operating voltage. ▶ the fuse in the AC IN on the rear panel. If the fuse needs to be replaced it is extremely important to replace only with same fuse type and value. ▶ that the speaker is in auto-standby power-saving mode.
If no sound output, check...	<ul style="list-style-type: none"> ▶ that the speaker is turned on (blue LED illuminated) ▶ to make sure the right speaker is connected correctly to the left. ▶ that the volume on the speaker front panel is not all the way down. ▶ the volume level on the iPod or other audio source.
If bass output is low, check...	<ul style="list-style-type: none"> ▶ speaker wire polarity (verify that wires are going to same terminals on both speakers) ▶ that the speaker placement is not too close to a wall or other obstruction. ▶ that the bass ports on the rear panels are not blocked by a rodent or jelly sandwich.
If no output from right speaker, check...	<ul style="list-style-type: none"> ▶ that the speaker wire is properly connected from the left to right. Check by removing the speaker wire from both terminals on each speaker and reconnecting.

※ For more frequently asked questions (FAQ's), technical advice and information on getting the most out of your Calyx The Integrated, please visit the Support section on Calyx Amp's website: www.calyxamp.com

7. Specifications

◎ Features

- iPod power charging port (Combo port)
- 2 audio inputs
- Built-in power amplifier, no receiver needed.
- Front panel volume control
- Kevlar woofers for super low end
- Silk dome tweeters for smooth highs
- Subwoofer output
- High-quality speaker binding post
- Hand-built cabinets w/high-gloss finish
- Magnetically shielded
- Auto-standby power-saving mode
- 1 year transferable warranty

◎ Materials and Construction

- 12mm thick MDF cabinets, with 15mm front panel
- 5" Kevlar woofers with advanced voice coils
- 25mm silk dome tweeters with neodymium magnets
- Torroidal power transformers

◎ Specifications

- Type : 2-way, powered speakers system
- Inputs : 1 x stereo input, 1 x 1/8" stereo mini-jack
- Outputs : 1 x USB Type A (power charging only), 1 x subwoofer output
- Amplifier type : Dual Class AB monolithic
- Power output : 30Watt RMS / Channel
- SNR : > 90dB (typical A-weighted)
- THD+N : < 0.1% @ all power setting
- Crosstalk : > 50dB
- Frequency response : 60Hz~22kHz @ ± 1.5 dB
- Input impedance : 10k Ω unbalanced
- Protection : Output current limiting, over-temperature thermal, power on/off transient protection
- Main Voltage : 110~120Vac / 220~240Vac (The voltage is fixed when factory out .)

◎ Dimension

- Net Dimension : 180mm X 205mm X 265mm (Width X Depth X Height)
- Net Weight : 9kg (left:5.5kg, right:3.5kg)



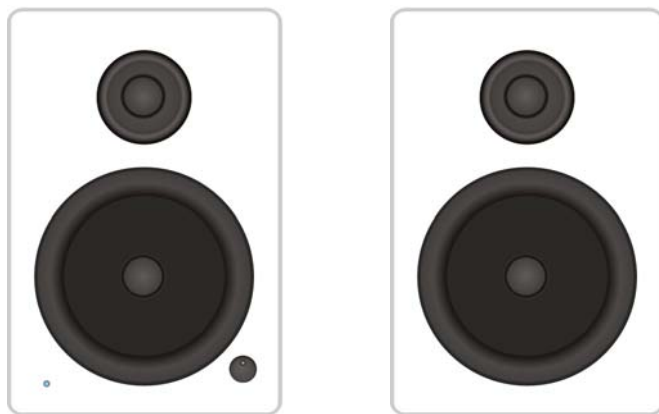
8. Warranty

Product	2-way powered speaker system	Model	Calyx AL
Purchase Date	/ /	Warranty Period	1 year
Purchased From			
User's Name			
Street Address			
City		State	
Zip Code		E-mail	
Telephone		Mobile	
Serial Number			
<p>Concerning products which have gone out of production, we will continue to supply the spare parts required for repairs during a period of 3 years after production stop, counting from the month and year when the production stop occurs.</p>			
<p>Read through the warranty conditions carefully.</p> <p>To obtain warranty service, you must deliver the product, freight prepaid, in either its original packaging or packaging affording an equal degree of protection to the Digital & Analog authorized service facility specified.</p> <ol style="list-style-type: none"> 1. For a period of one year from the original date of purchase of the product, Digital & Analog will repair or replace with new or refurbished product or parts, any product or parts determined to be defective without charge. 2. In the following cases, the purchaser must pay the service charge to repair the product. <ol style="list-style-type: none"> (1) After the warranty period has expired (2) Although the warranty period has not expired, the purchaser must pay the service charge in the following cases. <ul style="list-style-type: none"> - This warranty does not cover damage which occurs from unauthorized repair, alteration of any kind. - This Warranty does not cover damage due to improper maintenance or improper installation - This Warranty does not cover the product that was not purchased from authorized dealer. - The factory-applied serial number has been altered or removed from this product 3. If you want the service, please enclose warranty certificate and dated purchase receipt. 4. We don't republish the warranty. Keep your warranty carefully. 5. This Limited Warranty is valid only in the United States. <p>Some states do not allow the exclusion or limitation of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. This Limited Warranty gives you specific legal rights and you may have other rights which vary from state to state.</p>			



MEMO

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