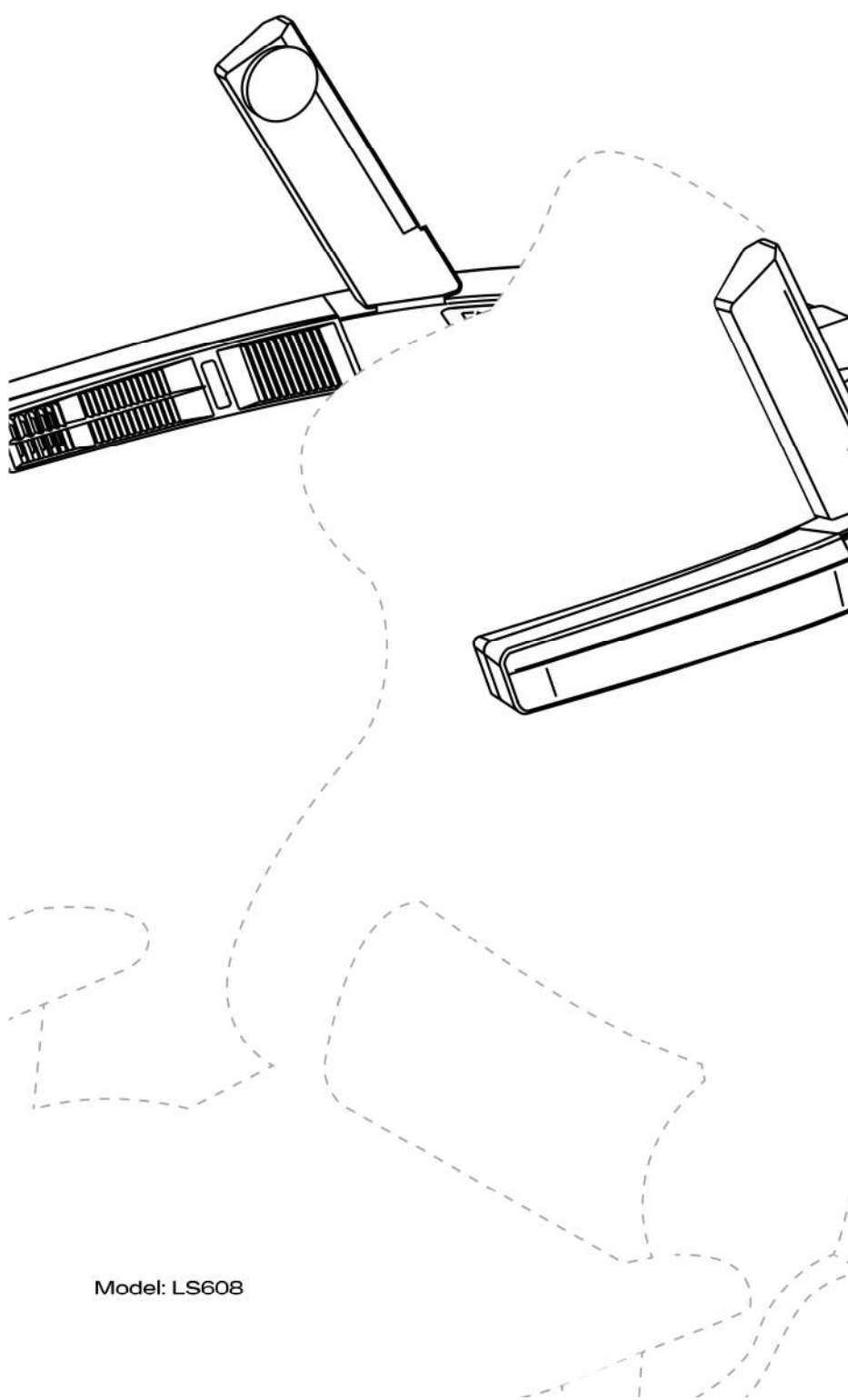# COLO GCS

Model: LS608

⚠ PREREQUISITES

Instructions for

Read the User Manual carefully before using the device to ensure proper and safe operation.

- It needs to be a Gaming Chair with a racing seat design.

- Ensure that the backrest and seat cushion are not a single piece. GCS will use the gap between them for securing and fastening.

- Due to the large size of the product, it is recommended that two people install it together.

- Bluetooth connection enables 2-channel stereo playback.

- To enable 7.1.2 channel spatial audio, corresponding audio source equipment and content are required.

- For gaming consoles like PS5 and XBOX, a TV with eARC port or an additional HDMI 1-2 Splitter is needed to use this feature.

⚠ SAFETY INFORMATION

Instructions for Use:

Read the User Manual carefully before using the device to ensure proper and safe operation.

Priority Safety Considerations:

- **Hearing Protection:** Given the proximity of the speaker to the user's ears when installed on a gaming chair,users are advised to maintain a safe volume level to minimize the risk of hearing damage.

- **Collision Protection:** Users should take care to avoid accidental collisions with the speaker when sitting down or standing up to reduce the risk of injury.

- **Cable Management:** To prevent users from tripping over cables, ensure that the speaker's cables are properly managed and secured.

- **Seat Stability and Rebound Function:** Users should be cautious when reclining the chair to avoid excessive tilting, which could result in falling or impair the chair's rebound function.

- **Device Fixation and Property Protection:** Since the device is secured with straps, long-term use may cause deformation or damage to the chair. Additionally, when moving the gaming chair, be careful not to pull on cords excessively when moving the gaming chair, as this may damage the speakers or connected equipment.

Basic Safety Precautions:

- **Electrical Safety:**

Keep Dry: Ensure the device remains dry. Avoid exposing it to water or moisture to prevent electric shock.

Use Proper Voltage: Only use the specified power source and voltage. Do not use unapproved power supplies.

Overheating Warning: Ensure proper ventilation. Do not cover ventilation openings to prevent overheating.

- **Usage Safety:**

Prevent Falling: Ensure the device is securely installed to avoid falling and injury.

Keep Away from Heat: Keep the device away from extreme heat sources or open flames.

- **Choking Hazard:** This product contains small parts. Keep it away from children.

- **Environmental and Disposal Information:** Do not dispose of this product with household trash. Follow local electronic disposal regulations.

PARTS LIST

1. COLOGCS
2. Back Plate
3. Overhead Channel*2
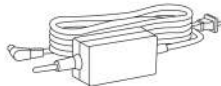4. HDMI Cable
5. Power Adapter
6. Belt Cover*2
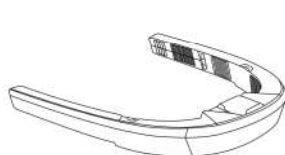
①.　　　②.　　　③.

④.　　　⑤.　　　⑥.

SPECIFICATION

Product	COLO GCS
Model	LS608
Color	Black
Voltage Range	DC 12V/3A
Power	36W
Standby Power	0.5W
Indicator Light	LED
Bluetooth Range	10M
Frequency Response Range	20Hz-20KHz (FL/FR: 20Hz-40KHz)
SNR (Signal-to-Noise Ratio)	>70dB
Operating Temperature	0-40°C
Storage Temperature	-20°C to 60°C/90% RH

PRODUCT OVERVIEW

(1) Center CH.

(2) Right front surround CH.

(3) Left front surround CH.

(4) Right surround CH.

(5) Left surround CH.

(6) Right overhead CH.

(7) Left overhead CH.

(8) Right rear surround CH.

(9) Left rear surround CH.

(10) Subwoof CH.

(11) **Right MIC** - for Bluetooth mod

(12) **Left MIC** - AUDIO IN for (23)

(13) **BASS**

Press BASS button

Voice Prompt: Bass 0、1、2、3...8.

Bass volume cycle, total bass does 8 stages: 0~8.

(15) **Mute Button**

Press for mute, press again to restore current volume.

Light Effect Prompt: Green light flashes when muted.

(14) **MOD Button (Mode Switch)**

Press MOD button to switch Sound effects

Voice Prompt: 1. FPS MOD
2. THEATRE MOD
3. UNIVERSAL MOD

MOD Button (In Bluetooth Mode)

Press and hold the MOD button for 3 seconds to disconnect Bluetooth, continue holding for 3 seconds to reconnect, press and hold for 10 seconds to reset Bluetooth and clear all paired devices.

MOD

Sound Effect mod

FPS: Designed for competitive shooting games. this mode reduces low-frequency resonance and diminishes the echoes of gunfire and explosions. It enhances the frequency range of footsteps in the game and balances the volume across all channels, helping you focus more on identifying the direction and position of enemies.

UNIVERSAL: Suitable for music and most listening scenarios, this mode balances the volume across all channels, offering a well-rounded and natural audio experience.

THEATRE: Ideal for immersive gaming and movie experiences, this mode enhances the volume of the center and front surround channels, increases the sense of directionality from the front, and boosts the low-frequency range, delivering a more powerful bass and immersive experience.
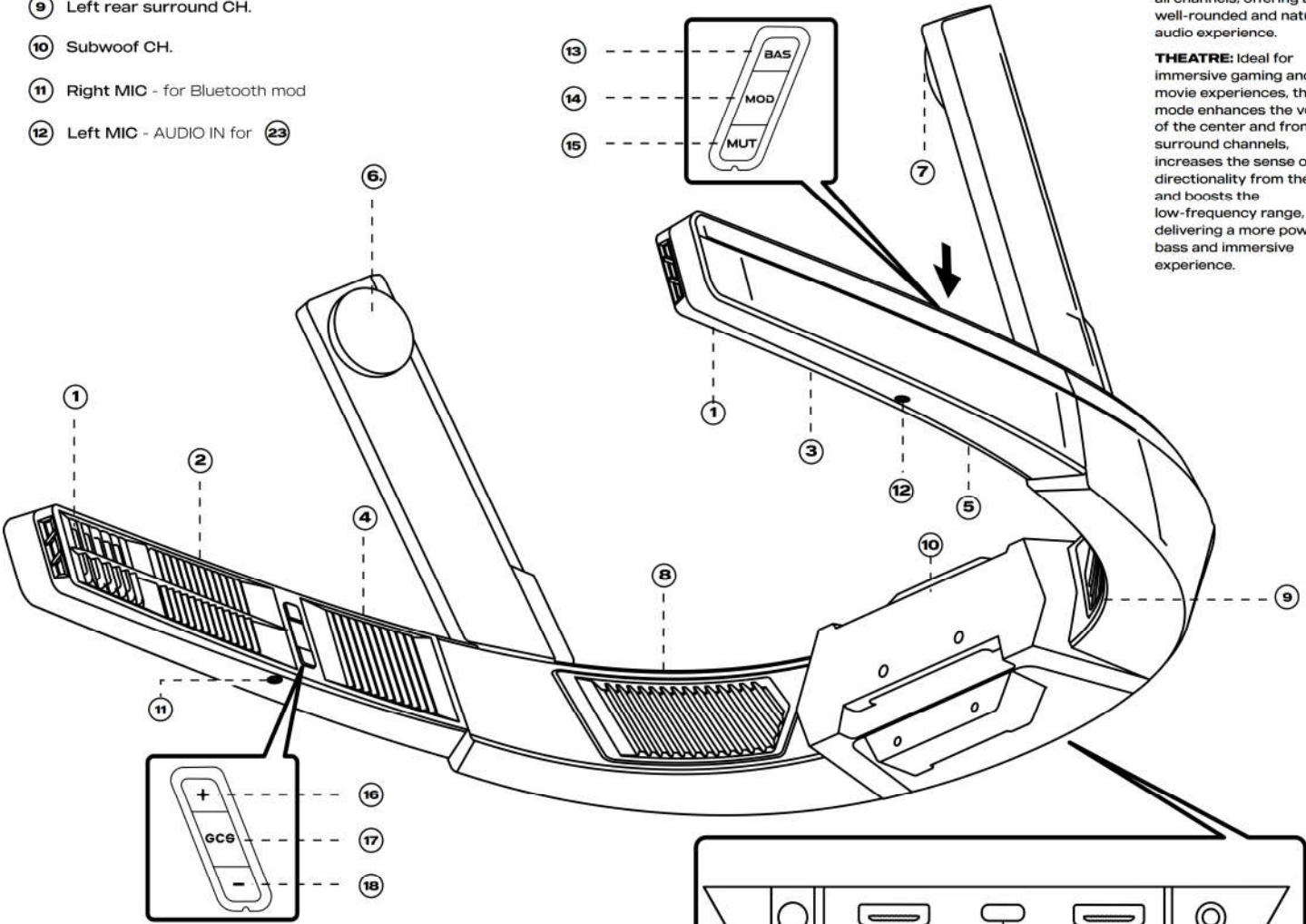
(16) **VOL+ Button**: Increases the volume level.

(17) **GCS Button**(Power/SOURCE Button): Dual-function button that powers the device on/off and selects the input source.
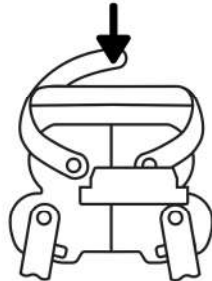
(18) **VOL- Button**: Decreases the volume level.

(20) HDMI IN

(22) HDMI eARC

(23) PC Microphone extension cable socket
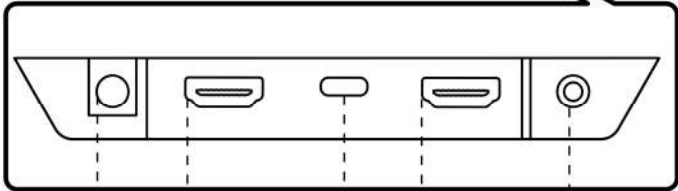
(19) Power: 12V/3A

(21) For Upgrade Only

Cannot be used for audio input or power supply; intended solely for system software upgrades

ASSEMBLY INSTRUCTIONS

1.

Adjust the Loop on the GCS Back Plate

Adjust the loop on the GCS installation back plate to be slightly smaller than the top of the gaming chair's backrest. For users taller than 190cm, consider making the loop smaller to accommodate a higher installation position.
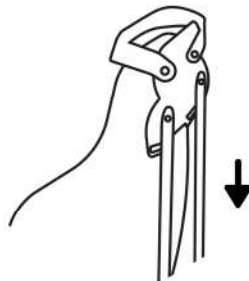
2.

### Attach the Loop to the Chair Backrest

Slide the loop over the top of the gaming chair's backrest, ensuring it's tight for stability. Slide the loop over the top of the gaming chair's backrest, ensuring it's tight for stability. Please note that this may cause some slight deformation to the backrest.
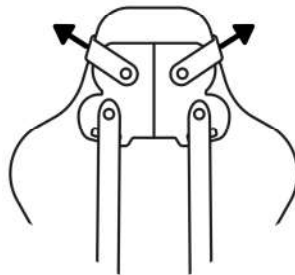
3.
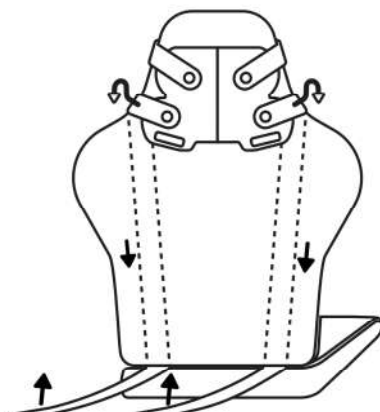
Secure the Shoulder Straps

Pass the shoulder straps from the GCS installation back plate over the shoulders of the gaming chair and thread them through the gap between the backrest and the seat cushion.
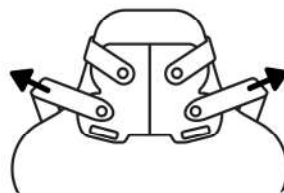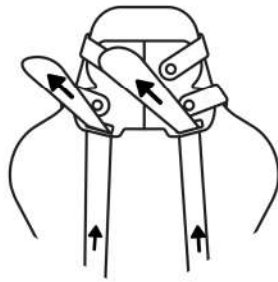
4.

Guide the Straps Through the Opening

Pull the straps through the lower opening on the installation back plate.

ASSEMBLY INSTRUCTIONS
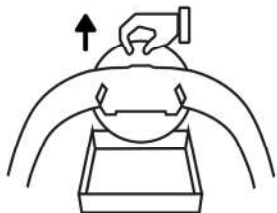
5.

Tighten and Secure the Straps

Simultaneously tighten both straps and fasten them to secure the back plate in place.
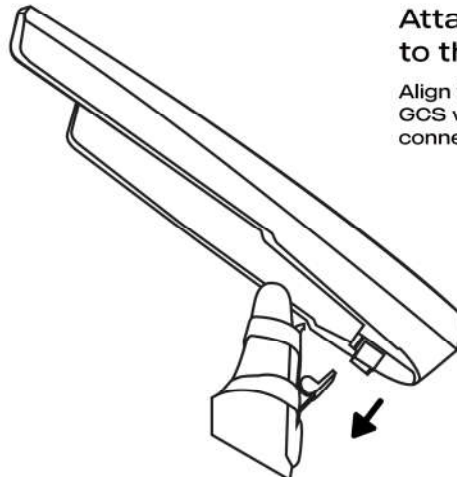
6.

Lift the GCS with Care

It is recommended to support the GCS at the rear surround and subwoofer area when lifting the product.

7.

Attach the GCS Base to the Back Plate

Align the bottom slot of the GCS with the back plate connector and insert it.

ASSEMBLY INSTRUCTIONS
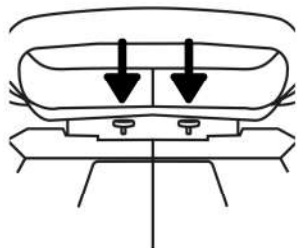
8.

Secure the GCS to
the Back Plate
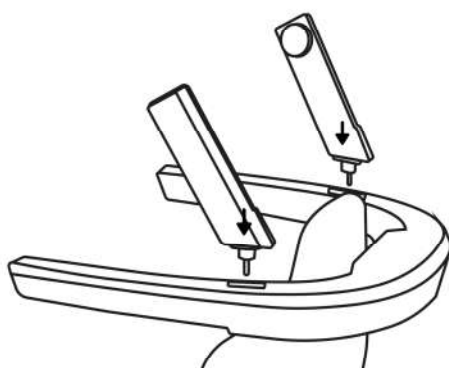
9.

Connect the Overhead
Channels

Align and connect the structure of
the sky sound channels with the
limiter notches on the GCS body

10.

Insert the power cable. &
Secure the Cables

Use cable ties to secure all cables
near the connector ends to prevent
damage during extensive movement.

11.

Installation
complete.

FUNCTIONS AND STATUS

Power Up State	**Operating Method and Requirements**
	Power up
	Light Effect Prompt
	Red light on

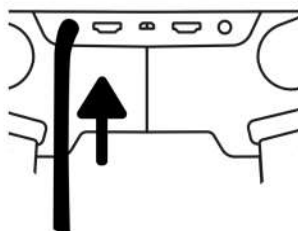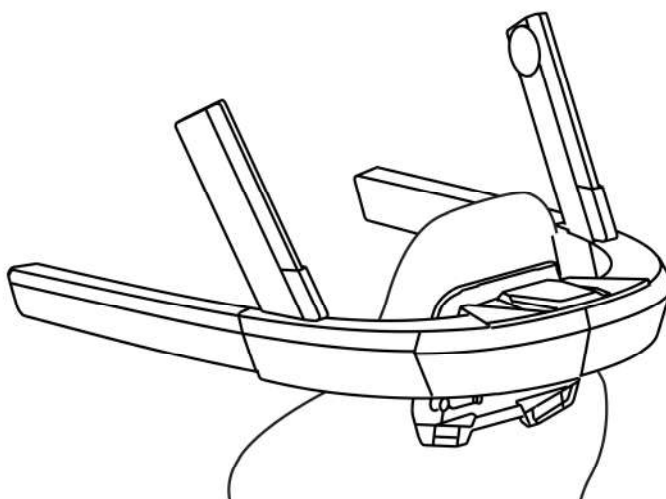| Power On	**Operating Method and Requirements**
	Press and hold GCS button for 2 seconds
	Light Effect Prompt
	High cyan light after entering HDMI IN mode
	Remarks
	Default to HDMI IN mode after power on

Input Source Selection	**Operating Method and Requirements**
	Press GCS button
	Light Effect Prompt
	1. HDMI IN: Cyan light on 2. HDMI ARC: Yellow light on 3. BT: Blue light on ATMOS working state: Purple light on
	Voice Prompt
	1. HDMI IN 2. eARC 3. BLUETOOTH

Power Off	**Operating Method and Requirements**
	Press and hold GCS button for 2.5 seconds
	Light Effect Prompt
	Current light flashes for 3 seconds then red light on

System Reset	**Operating Method and Requirements**
	Press and hold the MOD button for 15 seconds (EQ button)
	Remarks
	⚠️ Force system reset, restore system to factory settings after reset

FUNCTIONS AND STATUS

MOD Button
(Bluetooth Mode)

Operating Method and Requirements

Press and hold the MOD button for 5 seconds to disconnect Bluetooth, continue holding for 5 seconds to reconnect, press and hold for 8 seconds to reset Bluetooth and clear all paired devices

Light Effect Prompt

Blue light stays on after successful pairing, blue light flashes for 0.5 seconds when entering pairing state. When device pairing with this device fails, blue light flashes for 1 second. Entering pairing state, if no device pairs successfully within 1 minute, this device's Bluetooth name will be hidden, other devices cannot search for this device's Bluetooth. To enter Bluetooth pairing state again, press and hold the MOD button for 3 seconds or switch modes until returning to Bluetooth mode.

Voice Prompt

Bluetooth Connected/Disconnected

System Upgrade
via USB

Operating Method and Requirements

In HDMI IN mode, press and hold the BASS button for 8 seconds to perform a system upgrade via USB

Voice Prompt

USB UPDATE

Announce the
current software
version number

Operating Method and Requirements

In HDMI IN mode, press and hold the MUTE button for 8 seconds to announce the current software version number.

Voice Prompt

SYSTEM VERSION XXXX

BLUETOOTH CONNECTION GUIDE

Bluetooth mode only supports 2-channel stereo output.

1. Enter Bluetooth Mode: Press the GCS button continuously until the blue light starts flashing, indicating Bluetooth pairing mode, and you will hear a Bluetooth prompt.

2. Initiate Pairing: If the blue light does not flash upon entering Bluetooth mode, press and hold the GCS button until the blue light flashes and you hear the "paring" prompt.

3. Select Device: Select "COLOGCS-1" on your device.

4. Pairing Confirmation: A solid blue light indicates a successful pairing.

5. Enjoy the Audio Experience: Once paired, you can enjoy your audio content in 2-channel stereo via Bluetooth.

HDMI CONNECTION GUIDE

1. Enter HDMI IN Mode: Press the GCS button continuously until the light turns a steady light cyan, and you hear the "HDMI IN" prompt.

2. Boot Up Your PC: Start your PC and enter the Windows operating system.

3. Connect with HDMI Cable: Utilize the HDMI Cord included in the package to link the HDMI port on your PC's graphics card to the HDMI IN port on the GCS.

4. Check System Output Settings: Verify the connection by looking for the "COLOGCS-1" option in the Windows system output settings.

**5. Restart Your PC:** To complete the setup, restart your PC and GCS.

ADVANCED GUIDE FOR SPATIAL AUDIO

Preparation:Users are advised to download and install the Dolby Access software from the official Windows Microsoft Store.

Activation of the premium Dolby Atmos for Home Theater is not mandatory and is left to your discretion, as it does not impact the GCS audio performance.

Setting Up Dolby Access:

1. Go to the Products page in the Dolby Access app.

2. Select the Dolby Atmos for home theater option and click on Setup.

3. Enable Channel upmixer switch
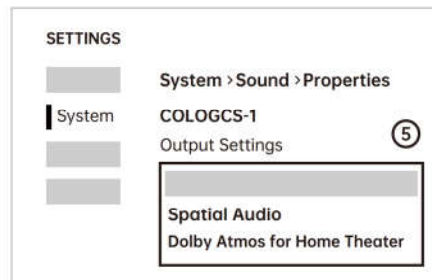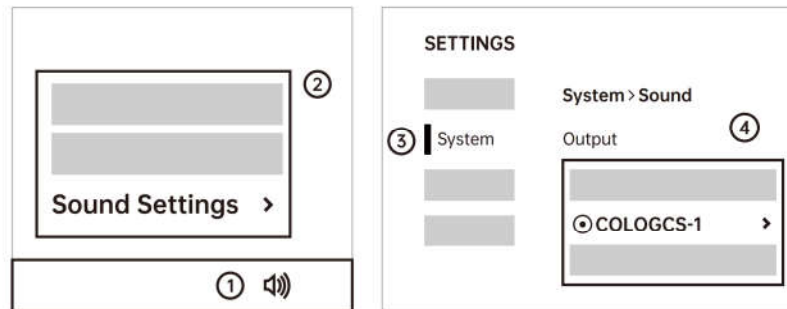
4. Complete the setup and close the application.
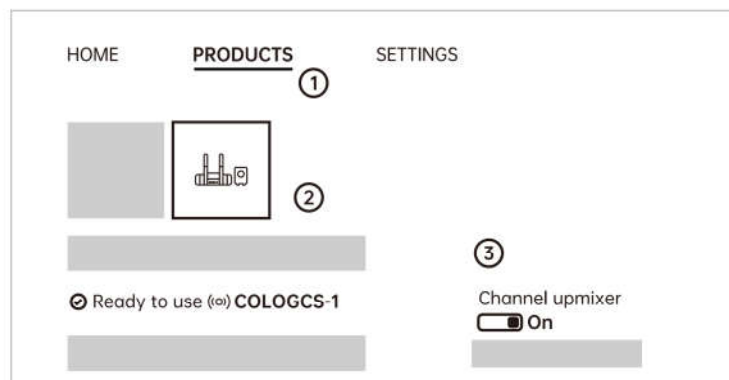
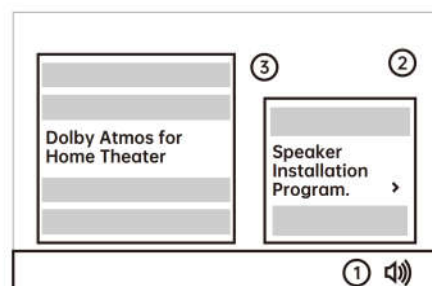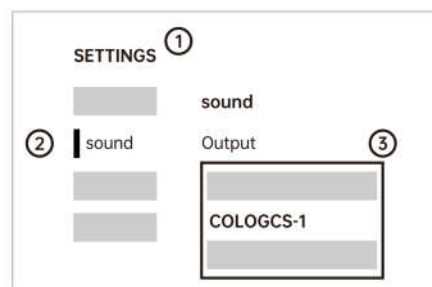# GUIDE TO ADVANCED SPATIAL AUDIO TUNING

Configuring Windows:

1. Launch the Windows Sound settings (access by right-clicking the speaker icon in the taskbar or navigate to Settings > System > Sound).

  - Choose the audio device "COLOGCS-1"

2. In the Spatial Audio list, select "Dolby Atoms for Home Theater".

win11

win10

FAQ

If you cannot get the GCS to enter surround sound mode (purple light), please check the following:

Always use the included HDMI 2.1 cable or a high-quality HDMI 2.1 extension cable. The GCS requires the transmission of a large amount of signals. For HDMI 2.1 cables over 3 meters, optical cables are usually necessary. Regular cables may experience signal attenuation, leading to unstable or failed connections.

The GCS primarily supports Windows 10 and 11. However, due to version differences in PCs and display devices, initial connection issues with the display may occur. These can usually be resolved through software adjustments.

The sequence of "wiring and powering on the host" may affect whether the GCS surround sound works successfully.

1. Ensure all components are powered on and devices are turned on. Verify that the cable is an HDMI 2.1 cable and that connections are secure.

2. Check if the HDMI eARC port is correctly connected. The HDMI eARC port can only be connected to an external device's HDMI eARC port and cannot be directly connected to a PC's HDMI OUT port.

3. Ensure that the video, audio, and game content and software support Dolby Atmos. Some software/games may require Dolby Atmos output settings within the application.

4. Some software/games and devices may need to be restarted after enabling Dolby Atmos. It is recommended to try restarting the device.

5. Check if the Dolby Access software is installed and if spatial audio is enabled in the Windows sound settings, as detailed in the PC software setup.

6. Ensure the GCS is in the correct input source mode, as indicated by the LED section.

7. Check if the GCS is in mute mode.

8. Graphics card drivers from NVIDIA or AMD can affect audio output. Sometimes updating to the latest drivers can cause audio output issues with games or video playback software. Please backup your drivers and consider rolling back to a previous version if necessary.

More Connections

Select your planned connection method from the list below and then directly refer to the corresponding letter section.

Connecting to a PC:

A. GCS connects to the PC graphics card HDMI port.

B. GCS connects to the PC motherboard HDMI port.

Using eARC to Connect to a TV:

C. PC connects to the GCS first, then GCS connects to the TV via HDMI eARC.

D. PC connects to the TV first, then GCS connects to the TV via HDMI eARC.

Connecting to a Console:

E. PS5 console/XBOX console connects to the TV, then GCS connects to the TV via HDMI eARC.

F. PS5 console/XBOX console/APPLE TV uses an HDMI eARC splitter (purchase separately) to connect to the GCS.

G. PS5 console/XBOX console/APPLE TV uses an HDMI 1-2 splitter (purchase separately) to connect to the GCS.

Connecting to a Mac:

H. MAC computers require macOS Sequoia, and the connection method is the same as for PCs.

Additional Accessories (Not included)

1. HDMI 1-2 splitter, duplicates a single HDMI signal into 2 outputs.

2. HDMI eARC splitter, separates the video and audio signals transmitted through a standard HDMI interface into HDMI eARC audio return signals.
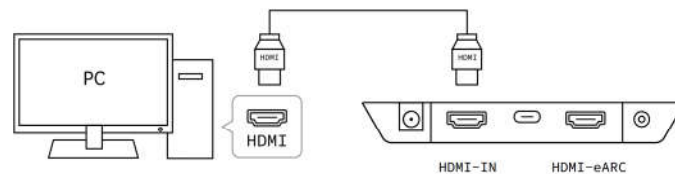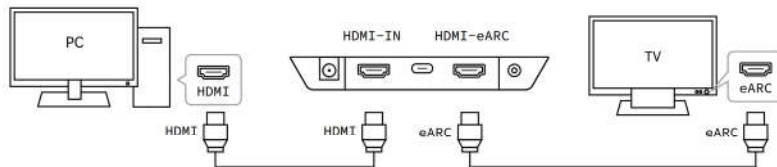

A. Connecting PC Graphics Card to GCS via HDMI

1. Press the GCS button on the right repeatedly until the light turns a steady light blue and you hear the "HDMI IN" prompt, indicating you've entered HDMI IN input mode.

2. Ensure the PC graphics card is powered and check for available HDMI ports. If there are two or more, connect the display device to the HDMI port on the graphics card.

3. If there's only one HDMI port on the graphics card, connect the display device to the DP or Thunderbolt port on the graphics card or the motherboard's HDMI or Thunderbolt port.

Tip: For better stability, video and audio can be outputted through the graphics card.

4. Power on the PC and enter the system.

5. Use an HDMI 2.1 cable to connect the PC graphics card's HDMI port to the GCS's HDMI IN port.

6. If the GCS HDMI option appears in the system output settings, the connection is successful.

B. Connecting PC Motherboard to GCS via HDMI

1. Press the GCS button on the right repeatedly until the light turns a steady light blue and you hear the "HDMI IN" prompt, indicating you've entered HDMI IN input mode.

2. Power on the PC and enter the system.

3. Use an HDMI 2.1 cable to connect the PC graphics card's HDMI port to the GCS's HDMI IN port.

Tip: If the GCS HDMI option appears in the system output settings, the connection is successful.

More Connections

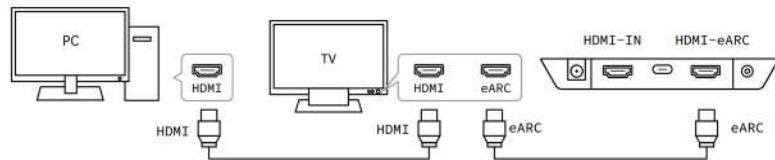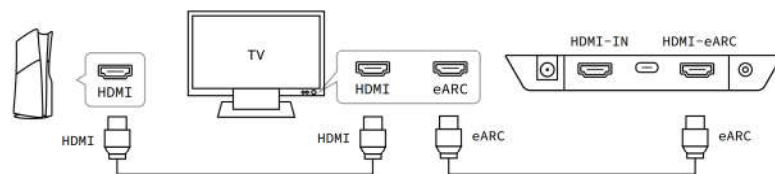## C. Connecting PC Graphics Card to GCS and TV via HDMI and eARC

1. Press the GCS button on the right repeatedly until the light turns a steady light blue and you hear the "HDMI IN" prompt, indicating you've entered HDMI IN input mode.

2. Use an HDMI 2.1 cable to connect the PC graphics card's HDMI port to the GCS's HDMI IN port.

3. Use another HDMI 2.1 cable to connect the GCS's HDMI eARC port to the TV's HDMI eARC port.

4. Power on the PC and enter the system.

5. If the GCS HDMI option appears in the system output settings, the connection is successful.

D. Connecting PC Graphics Card to TV and GCS via HDMI and eARC

1. Press the GCS button on the right repeatedly until the light turns a steady orange and you hear the "eARC" prompt, indicating you've entered HDMI eARC input mode.

2. Use an HDMI 2.1 cable to connect the PC graphics card's HDMI port to the TV's HDMI IN port.

3. Use another HDMI 2.1 cable to connect the TV's HDMI eARC port to the GCS's HDMI eARC port.

4. Power on the PC and enter the system.

5. If the TV's HDMI option appears in the system output settings, the connection is successful.

E. Connecting PS5 Console to TV and GCS via HDMI and eARC
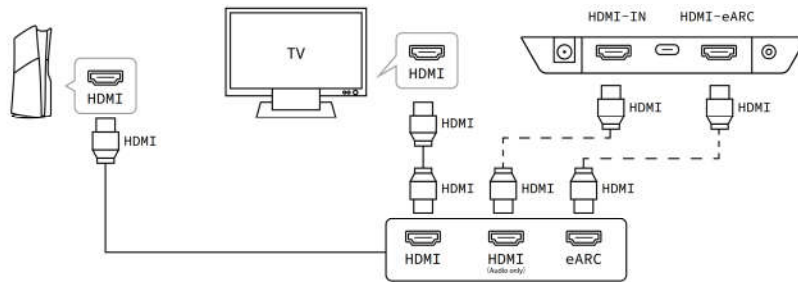
1. Press the GCS button on the right repeatedly until the light turns a steady orange and you hear the "eARC" prompt, indicating you've entered HDMI eARC input mode.

2. Use an HDMI 2.1 cable to connect the PS5's HDMI port to the TV's HDMI IN port.

3. Use another HDMI 2.1 cable to connect the TV's HDMI eARC port to the GCS's HDMI eARC port.

4. Power on the console and enter the system.

5. If the TV's HDMI option appears in the system output settings, the connection is successful.

More Connections

F. Connecting PS5 or PC to GCS via HDMI eARC Splitter
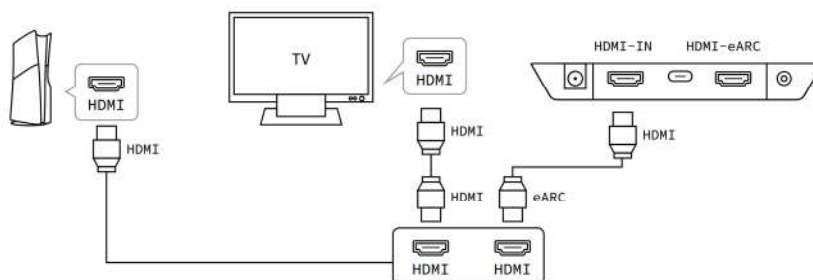
1. Press the GCS button on the right repeatedly until the light turns a steady light blue and you hear the "HDMI IN" prompt, indicating you've entered HDMI IN input mode.

2. Use an HDMI 2.1 cable to connect the PS5 or PC's HDMI port to the HDMI eARC splitter's HDMI IN port (purchase separately).

3. Use another HDMI 2.1 cable to connect the HDMI eARC splitter's HDMI OUT port to the TV's HDMI IN port.

4. Use another HDMI 2.1 cable to connect the GCS's eARC port to the HDMI eARC splitter's HDMI eARC port, or connect the GCS's HDMI IN port to the HDMI eARC splitter's HDMI AUDIO port.

5. Power on the device and enter the system.

6. If the TV's HDMI option appears in the system output settings, the connection is successful.

G. Connecting PS5 or PC to GCS and Display Device via HDMI 1-2 Splitter

1. Press the GCS button on the right repeatedly until the light turns a steady light blue and you hear the "HDMI IN" prompt, indicating you've entered HDMI IN input mode.

2. Use an HDMI 2.1 cable to connect the PS5 or PC's HDMI port to the HDMI 1-2 splitter's HDMI IN port (purchase separately).

3. Use another HDMI 2.1 cable to connect the HDMI 1-2 splitter's HDMI OUT 1 port to the TV's HDMI IN port.

4. Power on the device and enter the system.

5. Use another HDMI 2.1 cable to connect the HDMI 1-2 splitter's HDMI OUT 2 port to the GCS's HDMI IN port.

6. If the TV's HDMI option appears in the system output settings, the connection is successful.

7. In the system display settings, select to duplicate the display.

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, i not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference.

(2) This device must accept any interference received, including interference that may cause undesired operation.

RF Exposure Information

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure conditions without restriction.

WARRANTY TERMS

Thank you for purchasing this LifeSmart product. In order to protect your rights, please read the following content carefully: The warranty period of our company's products is one year from the date of purchase or longer if local laws impose a longer minimum term, in which case the minimum term is the warranty period. During the warranty period, any faults caused by the product itself or for quality problems that arise under normal usage, LifeSmart will provide a free replacement.

NON-WARRANTY REGULATIONS

The following conditions are not covered by the warranty:

1. Product failure or damage caused by installation, use, and maintenance that is not in accordance with the product instructions;

2. Products beyond the warranty period;

3. Products that have the barcode tampered with or removed;

4. Devices that have been tampered with or customized outside of LifeSmart Terms Of Service as on the LifeSmart App and website;

5. User-caused damage, such as inappropriate voltage input, high temperature, accidental spillage, physical damage, etc;

6. Product failure or damage caused by force majeure such as earthquakes, fires, or floods;

7. Product failure or damage caused by other problems except the product itself.

DECLARATION

DECLARATION OF CONFORMITY

Hereby, LifeSmart declares that the radio equipment type is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: http://global.ilifesmart.com/ce/docs/

Notice: This device may be used in each member state in the EU.

Copyright © 2024 LifeSmart Inc. All Rights Reserved.

CERTIFICATION
Quality inspector
QC
PASS

CONTACT US

If you have any questions or need assistance, please don't hesitate to reach out to us on Discord + Cololight channel and check the #gcs-support channel for updates and inquiries.Alternatively, you can also contact us via email SERVICE@COLOLIGHT.COM.

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