FLUID AUDIO

# CLASSIC SERIES C5BT

User Guide

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# Introduction

Thank you for choosing the Classic Series C5BT Bluetooth enabled near field studio monitors.
Fluid Audio may not seem like a house-hold name but the founders of the company have been designing speakers for over 23years. They are also songwriters and musicians just like you and know exactly what is needed for tracking and mixing great music. Now, after painstaking tuning and voicing, Fluid Audio is proud to present our first hybrid monitor, the C5BT.

The C5BT monitor has a pedigree of making music in professional studios, coming from the likes of other Fluid monitors like the F5 and FX8. However, with the C5BT we set out to create a great sounding monitor that could be used at home or the office as well. Whether you're watching a movie, streaming music on the web, or just listening to your favorite downloaded tracks on your phone, you want an accurate reproduction of what the mix engineer intended. For this, you need a speaker with a well-balanced frequency response - so you won't hear any frequency louder or softer than any other, but also one that images well. What is imaging? When you listen to music, and close your eyes, can you picture where the instruments are on the "virtual stage"? If you can, you have speakers that image very well- like the Classic Series C5BT monitors.

Not only do the C5BT's provide a clearer view into the music you are listening to (or perhaps making) they also overcome many of the limitations found in many other speakers. Using quality speaker drivers and employing a sophisticated crossover network, they sound clear and transparent. From Pro engineers at commercial studios to listening to your favorite music or movies at home, the C5BT sets a new, affordable standard in monitoring.

# What's inside?

Your Fader Series C5BT box contains:

- One pair (2) C5BT studio monitors
- Bare connection wire
- Detachable AC power cord
- This users guide
- Acoustic isolation pads

# Classic Series C5BT Features

## 1.Woofer

The woofer driver is 5"(127mm) in diameter and utilizes a low distortion magnet structure. That magnet drives a high temperature voice coil, which is mounted to a poly coated, paper pulp cone. The cone is anchored to the frame with a pliant butyl rubber surround which minimizes high frequency resonant peaks that may be transmitted from the cone. Although many claim to use "space age" materials in their cones, since the 1920's, the most popular material for woofer cones has been paper pulp. Why? Not only it's great strength-to-weight ratio, but because of its excellent damping characteristics - leaving the woofer to reproduce pure tones, not the ringing resonances.

## 2.Tweeter

Using an efficient 25mm PEI diaphragm with magnet shielding, the C5BT tweeter provides extended high-frequency response while keeping a very natural sound character. Mounted to a specially designed wave guide, the tweeter is able to be crossed over at a lower frequency -creating better off-axis response and more output across the mid-band of the device.

## 3.Bass-Reflex Rear Port

The opening on the rear plate is the bass-reflex vent port. It is designed to effectively tune the speaker cabinet to a certain frequency, and maximize the bass output of the speaker. It is flared in order to minimize air turbulence, and thereby, audible distortion.

## 4.Enclosure

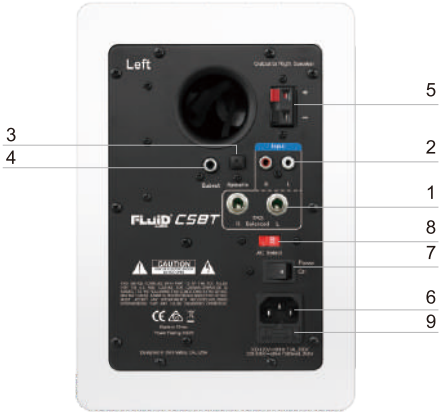
The enclosure design of the C5BT has a very important role in shaping the overall sonic response of the speaker. Besides being made of acoustically efficient MDF material, it is also reinforced by internal bracing to ensure solid bass response. The tweeter wave guide not only "guides" the high frequency energy to maximize off axis coverage, but also pushes the tweeter back slightly, allowing for time alignment with the woofer.

## 5. Amplification and Crossover Network

The amplifiers for both speakers are housed in the single, left channel enclosure. The amplifier is Class A/B architecture and provides 40 watts total power to the drivers (20 per channel). Combined with phase-optimized crossover networks, the drivers blend together, resulting in a coherent soundstage across the entire audio spectrum.

# Front and Rear Panel Features

## Rear Panel Features




1. **TRS INPUT:** This jack accepts 1/4" connections with either balanced or unbalanced wiring.
   For balanced wiring, a three-conductor TRS plug is necessary. The input wiring of a TRS connector should be as follows:
- TRS TIP · · · · · · · · · · · · · signal positive (+)
- TRS RING · · · · · · · · · · · · · signal negative (-)
- TRS SLEEVE · · · · · · · · · · · signal ground (shield)

Unbalanced 1/4" wiring can be done with either a two- or three-conductor (TS or TRS) plug. A two-conductor (TS) plug automatically grounds the signal negative input, whereas a three-conductor (TRS) plug, wired unbalanced, provides the option of leaving the negative input open or grounded. We recommend that you ground the unused negative input (this can be done by wiring the ring and sleeve of the TRS plug together).

The TRS input is summed through a balanced input amplifier with the XLR input, allowing both inputs to be used simultaneously. Input specifications apply to both.

2. **RCA INPUT:** This jack accepts RCA input connections with unbalanced wiring

3. **OPTICAL INPUT:** This jack accepts Optical (or TOSLINK) input connection, so you can use a completely digital connection.

4. **SUBWOOFER OUT:** This RCA output can be connected directly to a powered subwoofer (such as the F8S) for better bass output and extension.

5. **OUTPUT TO RIGHT CHANNEL:** Connect the included bare connection wire to here and your right channel speaker.

6. **AC POWER SOCKET:** The included AC power cord must be plugged in here, and to the wall socket in order to power the monitor. (The internal power supply should be already set to match the "house supply" (receptacle) voltage of the country or location in which the speaker will be used).

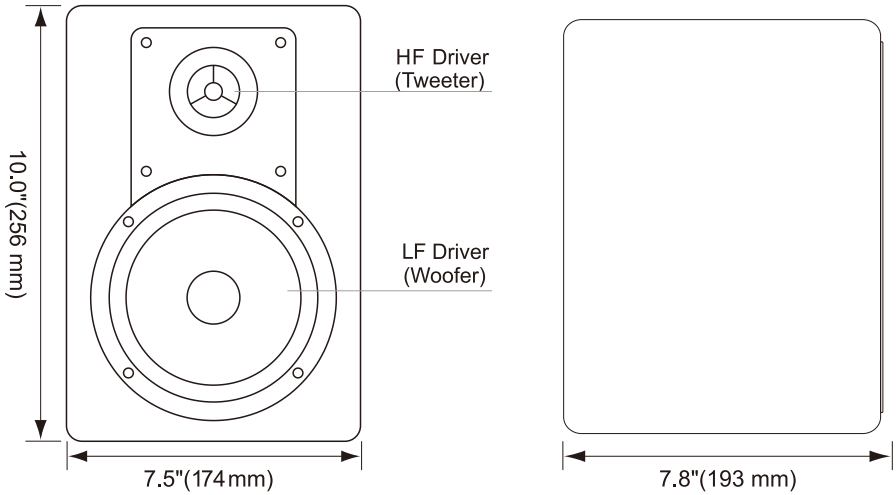
7. **POWER SWITCH:** This switch turns the monitor on and off.

8. **VOLTAGE SELECT SWITCH:** Provides two selections, 100-120V AC and 220-240V AC, and should be set to match the "house supply" (receptacle) voltage of the country or location in which the speaker is used. The 100-120V setting is correct for the USA and Canada, while the 220-240V setting is correct for most of the UK and Europe.

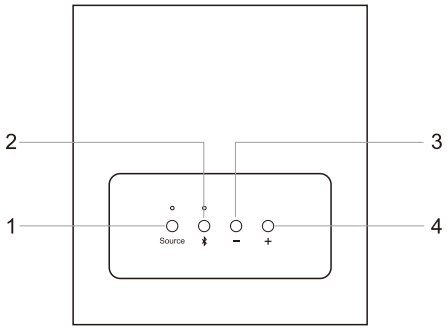
9. **FUSE HOLDER:** Holds the external main fuse.

## Front Panel Features

### Classic Series C5BT Monitor




### Top Panel Features




1. **SOURCE SELECT:** Pushing this allows you to select the input on the rear panel: RCA, TRS or Optical.

2. **BLUETOOTH PAIR BUTTON:** Pushing this engages the pairing sequence, and blinks until a Bluetooth source is found.

3. **VOLUME DECREASE (-):** Decreases the sound ouput level in increments of 1.25dB per click.

4. **VOLUME INCREASE (+):** Increases sound output level in increments of 1.25dB per click.

## Installation

For optimal performance of your C5BT monitors, please read the following thoroughly and carefully prior to installation.

Precautions

**Handling:** Please do not touch the speaker cones**.** The C5BT speakers are tightly pair-packed, so your attention is required when taking them out of the box. To avoid possible damage to the speaker units, hold both sides of the monitor while pulling it out of the box**.** The speaker cones should not be touched in order to avoid damage even after they are out of the box.

**Correct Power Operation:** Since the C5BT monitor contains its own amplifier, it must be connected to a power outlet using the AC cable on the rear panel**.**

**WARNING!**

**Connections:** You can connect either a TRS balanced/unbalanced cable or RCA unbalance cable from the input of C5BT to your corresponding preamp, interface or mixer outputs. We recommend that you use high-quality balanced or unbalanced cables for input connections. Also, always turn off the power of the C5BT and turn the volume to a minimum before making the necessary connections.

**Usage:** All Fluid studio monitors are designed to be used on flat, counter-top surfaces. They were not designed or intended to be suspended, "flown" or mounted by screws, straps or the like. Fluid Audio is not responsible for anything resulting from such use.

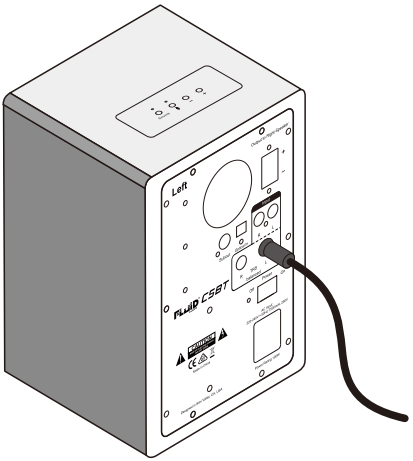
**Caution:** Never remove the rear panel of these powered monitors. To do so could result in electric shock. A qualified technician should perform any repair or service to the electronics.

**Hearing protection:** This product is capable of producing sounds at a level that could be damaging to hearing and result in permanent hearing loss over an extended period of time.

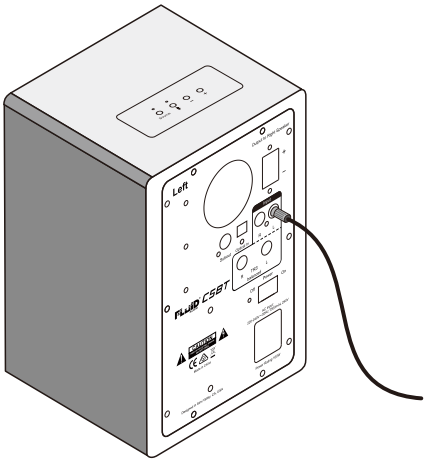
## TRS Balanced/Unbalanced Connection

Assure that the power switch of the C5BT is turned to off and that the volume control of the C5BT is turned down to a minimum. Connect the male end of a TRS balanced or TS unbalanced cable to the TRS input of the C5BT monitor.

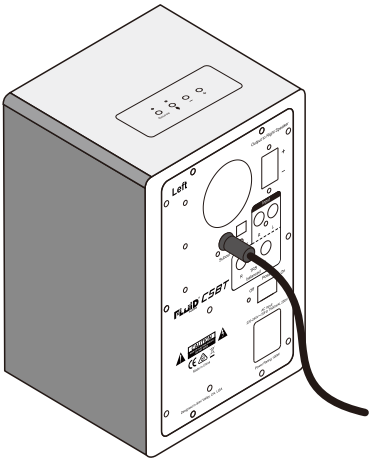
(Refer to the following diagram for TRS connection)



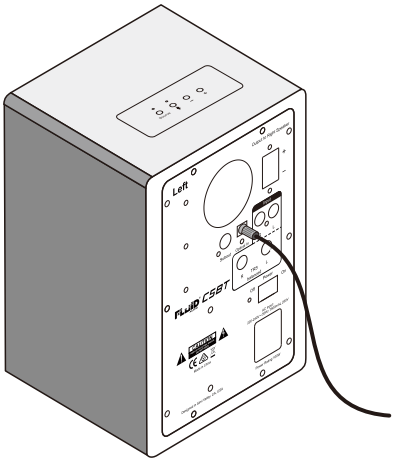

1/4" TRS Balanced or Unbalanced Connection




RCA Unbalanced Connection




Sub out

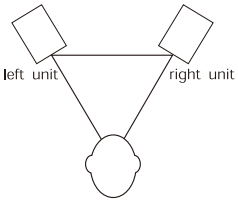


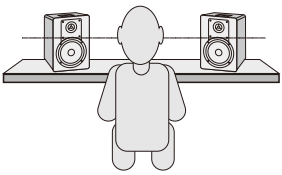

Optical in

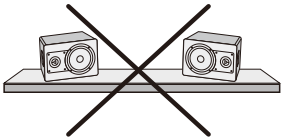
## C5BT Orientation and Listening position

Placement of the speakers is one of the most important procedures in order to monitor sound accurately. To monitor with the C5BT's performing to their maximum capability, an appropriate listening environment and correct placement are required. Please refer to the following for correct C5BT placement.

1.The two speakers and the listener should basically align to form a regular triangle. Refer to the diagram below.
2.Position the monitors so that the space between the woofer and tweeter is level with your ears in a normal listening environment.
As seen in the diagram below.
3.Place the C5BT's vertically with the woofer on the bottom. Placing the C5BT's horizontally is not recommended.





**Remarks:** DO NOT place any obstacles that may block the flow of air in front or between the monitors. Also remove reflective materials such as glass, mirrors or metal from the monitoring environment.
PLACE THOSE MATERIALS AWAY FROM THE PATH OF THE SOUND FROM THE C5BT MONITORS.

# Warranty

## Warranty Terms

Fluid Audio warrants products to be free from defects in materials and workmanship, under normal use and provided that the product is owned by the original, registered user.
Contact your local retailer or place of purchase for terms and limitations applying to your specific product. Terms may differ depending on country of purchase.

## Connecting to Preamp or Computer Outputs

Before connecting, make sure the output device's power has been turned off. Plug the TRS balanced or TS unbalanced or RCA cable to the corresponding output connectors of a pre- amplifier, computer or game console.

# Appendix A – Technical Specifications

| | |
|---|---|
| Type: | 2-way near-field studio reference monitors |
| LF Driver: | 5-inch composite paper cone with high temperature voice coil and damped rubber surround. |
| HF Driver: | 1-inch PEI diaphragm tweeter |
| FrequencyResponse | 54Hz -22kHz |
| Crossover Frequency: | 4.5kHz |
| Total Amplifier Power | 40W |
| S/N Ratio: | >90dB typical, A-weighted |
| Input connectors: | 1x RCA unbalance input connector<br>1x TRS balanced/unbalanced input connector<br>1x Optical input connector |
| Output connectors: | 1x Subwoofer output |
| Polarity: | positive signal at + input produces outward LF cone displacement |
| Input Impedance: | 20k ohms balanced, 10k ohms unbalanced |
| Input Sensitivity: | 85mV pink noise input produces 85dBA output SPL at one meter with volume control at maximum |
| Protection: | RF interference, output currant limiting, over temperature, turn -on/off transient, subsonic filter. |
| Indicator | power on / off, LED on front panel |
| Power Requirements: | factory programmed for either 110-120V-60Hz, 220-230V-50Hz |
| Cabinet: | vinyl-laminated high acoustic efficient MDF |
| Dimension: | 256 mm (H) x 174 mm (W) x 195 mm (D) |
| Weight: | 8.4 kg/pair (without packing) |

Above specifications subject to change without notice

## WARNING:

This product contains chemicals, including lead, known to the State of California to cause cancer, and birth defects or other reproductive harm. Wash hands after handling.

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