

## Stagg SDI-ST

# Stagg SDI-ST 2-Channel Passive DI Box User Manual

Model: SDI-ST

Brand: Stagg

## 1. INTRODUCTION

Thank you for choosing the Stagg SDI-ST 2-Channel Passive DI Box. This device is designed to convert high-impedance, unbalanced signals from instruments, microphones, or other audio sources into low-impedance, balanced signals suitable for direct connection to mixing consoles, audio interfaces, or other professional audio equipment. Its robust die-cast metal housing ensures durability for stage, studio, and broadcast applications. This manual provides essential information for the proper setup, operation, and maintenance of your SDI-ST DI Box. Please read it thoroughly before use to ensure optimal performance and longevity of the product.

## 2. PRODUCT OVERVIEW

The Stagg SDI-ST is a passive direct injection box featuring two independent channels, allowing for mono or stereo signal processing. It requires no external power supply.



Figure 1: Stagg SDI-ST 2-Channel Passive DI Box. An angled view of the Stagg SDI-ST 2-Channel Passive DI Box,

showcasing its black die-cast metal housing, input/output jacks, and switches. The top panel displays the model name and connection diagrams, while the front panel features the input/output jacks and ground lift switches.

## 2.1. Components and Controls

- **HI-Z IN 1 / HI-Z IN 2:** High impedance input jacks (1/4" TS) for connecting instruments, microphones, or other audio sources.
- **HI-Z OUT 1 / HI-Z OUT 2:** High impedance output jacks (1/4" TS) for routing the original signal to an amplifier or other stage equipment. These act as "thru" outputs.
- **LO-Z OUT 1 / LO-Z OUT 2:** Low impedance balanced XLR outputs for connecting to mixing consoles or audio interfaces.
- **GROUND LIFT 1 / GROUND LIFT 2:** Switches to disconnect the ground connection between the input and output, helping to eliminate hum and ground loop noise.
- **STEREO/MONO SELECT:** A switch to select between stereo (two independent channels) or mono operation (combining both inputs to a single output, typically LO-Z OUT 1).

## 3. SETUP

Follow these steps to properly set up your Stagg SDI-ST DI Box:

1. **Connect Input Source:** Connect your instrument (e.g., guitar, bass, keyboard) or other audio source to the **HI-Z IN 1** or **HI-Z IN 2** jack using a standard 1/4" TS instrument cable. For stereo sources, use both inputs.
2. **Connect to Amplifier (Optional):** If you wish to send the original signal to an on-stage amplifier, connect the **HI-Z OUT 1** or **HI-Z OUT 2** jack to your amplifier's input using another 1/4" TS instrument cable.
3. **Connect to Mixer/Interface:** Connect the **LO-Z OUT 1** or **LO-Z OUT 2** (XLR outputs) to the balanced XLR input of your mixing console or audio interface using standard XLR cables.
4. **Select Stereo/Mono Mode:**
  - For independent left and right channels (stereo), ensure the **STEREO/MONO SELECT** switch is in the **STEREO** position.
  - To combine both inputs into a single mono output (typically LO-Z OUT 1), set the **STEREO/MONO SELECT** switch to the **MONO** position.
5. **Ground Lift:** Ensure the **GROUND LIFT** switches are initially in the "grounded" position (usually '0' or down). If you encounter hum or buzz, try engaging the ground lift switch ('1' or up) for the affected channel.

## 4. OPERATING INSTRUCTIONS

Once connected, the Stagg SDI-ST operates passively, meaning it does not require power and functions by transforming the signal impedance. Here are key operational considerations:

- **Signal Flow:** The signal from your instrument enters via **HI-Z IN**. It is then split: one path goes to the **HI-Z OUT** (for an amplifier), and the other passes through a transformer to become a balanced, low-impedance signal at the **LO-Z OUT** (for a mixer).
- **Ground Loop Elimination:** If you hear a low-frequency hum or buzz, it is often caused by a ground loop. Engage the **GROUND LIFT** switch for the channel experiencing the hum. This disconnects the ground path, which can resolve the issue. If the hum persists, ensure all equipment is properly grounded and try different power outlets.
- **Mono vs. Stereo:**
  - In **STEREO** mode, each channel (1 and 2) operates independently. Input 1 goes to Output 1, and Input 2 goes to Output 2.

- In **MONO** mode, both Input 1 and Input 2 signals are summed together and sent out through **LO-Z OUT 1**. **LO-Z OUT 2** will typically be inactive or carry a duplicate mono signal depending on the internal wiring. Consult the mixer's input for optimal mono summing.
- **Passive Operation:** As a passive DI box, the SDI-ST does not boost the signal. The output level will be dependent on the input level. Ensure your source instrument has sufficient output.

## 5. MAINTENANCE

The Staggs SDI-ST DI Box is designed for durability and requires minimal maintenance.

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Avoid using abrasive cleaners or solvents, as these can damage the finish.
- **Storage:** Store the DI box in a cool, dry place away from direct sunlight and extreme temperatures when not in use.
- **Handling:** While the die-cast metal housing is robust, avoid dropping the unit or subjecting it to severe impacts, which could damage internal components.
- **Cable Connections:** Always ensure cables are securely connected but avoid excessive force when plugging or unplugging, which can damage the jacks.

## 6. TROUBLESHOOTING

Problem	Possible Cause	Solution
No sound from mixer/PA	<ul style="list-style-type: none"> <li>◦ Incorrect cable connection</li> <li>◦ Mixer input gain too low</li> <li>◦ Faulty cable</li> <li>◦ STEREO/MONO switch setting</li> </ul>	<ul style="list-style-type: none"> <li>◦ Verify all cables are correctly connected to <b>HI-Z IN</b> and <b>LO-Z OUT</b>.</li> <li>◦ Increase the gain on the mixer channel.</li> <li>◦ Test with known good cables.</li> <li>◦ Ensure <b>STEREO/MONO</b> switch is set appropriately for your setup.</li> </ul>
Hum or buzz noise	<ul style="list-style-type: none"> <li>◦ Ground loop</li> <li>◦ Interference from other electrical devices</li> </ul>	<ul style="list-style-type: none"> <li>◦ Engage the <b>GROUND LIFT</b> switch for the affected channel.</li> <li>◦ Ensure all equipment is plugged into the same power circuit if possible.</li> <li>◦ Move the DI box or cables away from power transformers or fluorescent lights.</li> </ul>
Low or weak signal	<ul style="list-style-type: none"> <li>◦ Source instrument output level is low</li> <li>◦ Mixer input gain insufficient</li> </ul>	<ul style="list-style-type: none"> <li>◦ Increase the volume/output level on your instrument.</li> <li>◦ Increase the gain on the mixer channel.</li> <li>◦ Ensure the DI box is connected correctly (passive DI boxes do not amplify).</li> </ul>

## 7. SPECIFICATIONS

Feature	Detail
Model Number	SDI-ST
Type	2-Channel Passive Direct Injection Box





### [Stagg & Angel Lopez Musikinstrumentkatalog](#)

Utforska den omfattande katalogen från Stagg och Angel Lopez med ett brett utbud av musikinstrument och tillbehör. Denna guide detaljerar gitarrer, fioler, cellos, basar, ukuleles, keyboard, trummor, förstärkare och nödvändiga tillbehör som stativ, fodral och axelband. Upptäck kvalitetsinstrument och utrustning för musiker på alla nivåer från Stagg och dess associerade varumärken.

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