

THANK YOU

for your purchase

H  **LABS**

DIO2S

Class A stereo direct box

User manual v4.24

INTRODUCTION

The DI02S is a high end Class A stereo direct box, made for the studio and the stage. It features the big & famous Carnhill® VT24499 transformer [the same you can find in Neve® 51-series console for example] that gives a massive sound on the balanced output, but also an integrated buffer on the link output for enhanced direct sound through your guitar, bass or keyboard amp.

Thanks to a very high input impedance ($\approx 4M\Omega$), the DI02S offers a very wide and dynamic sound, perfect for modern & vintage instruments. It's class A circuit ensures phase accuracy, even at the lowest frequencies.

The 3-positions output pad (-12/-24/-36dB) is ideal in studio use, when you want to drive a microphone preamp after the DI02S.

The replicated instrument input on the rear of the unit will help keep your touring rack clear from cables.

It's sturdy design will make it last for decades of touring. Just enjoy !

MAIN FEATURES

FRONT INSTRUMENT INPUT

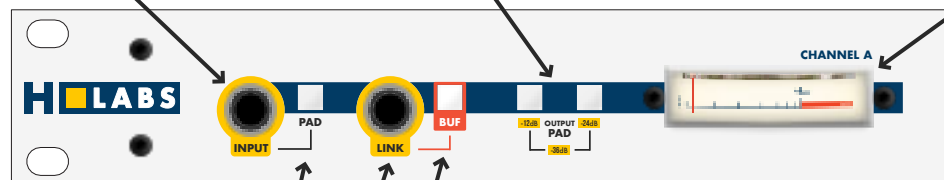
The very high impedance input ($\approx 4M\Omega$) is a major upgrade from common DI circuits. It will get the most of modern & classic instruments, be it acoustic or electric guitars, basses, keyboards and more.

OUTPUT PAD

Use the output pad to get a low-level signal at the XLR output, and drive a mic-preamp input after the DI02S.

VU METER

The VU meter monitors how hard you hit the output transformer. When the unit is switched on, it features a subtle yellow backlighting, which turns red when clipping (around +18dBu).



INPUT PAD

Use the PAD to adjust the input level :
Disengaged ▶ +13dB
Engaged ▶ 0dB

❗ The LINK output is not affected by the PAD position.

LINK OUTPUT & BUFFER

The link output is a replication of the jack input, featuring a buffer circuit. This functionality ensures a perfect impedance match with the following amplifier, for a wide and clear sound.

❗ As a key element in the audio quality of the DI02S circuit, the buffer is activated by default. Press the button to bypass the buffer circuit!

SPECIFICATIONS

- ▶ Max input level: +9dBu without PAD | +18dBu with input PAD
- ▶ Max output level: +22dBu without PAD | +19dBu with input PAD
- ▶ Input impedance: $\approx 4M\Omega$
- ▶ Output transformer: Carnhill VT24499
- ▶ Integrated buffer circuit on the LINK output
- ▶ Frequency response (1k Ω load) ▶ ± 1.0 dB from 5.4Hz to 25+kHz
▶ ± 0.2 dB from 20Hz to 20kHz
- ▶ SNR : >102dB (0.2% max THD)
- ▶ Worldwide compatible power supply: 100-240V | 50-60Hz
- ▶ Dimensions : 1U rack ▶ 483x260x44mm | 19.0x10.2x1.7in
- ▶ Weight : 4.3kg | 9.4lb

Designed and assembled in our workshop in Saint V rand (France).



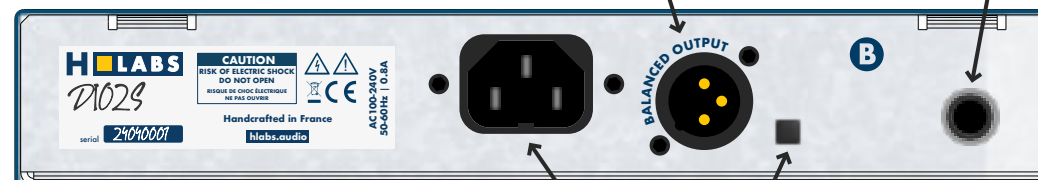
BALANCED OUTPUT

The very low output impedance ($\approx 10\Omega$) using the Carnhill® VT24499 transformer ensure a perfect sound with virtually any audio device, including vintage gear.

REAR INST. INPUT

The rear input is linked to the front panel input. It could be used as a second LINK OUT, but will not benefit from the BUFFER.

❗ Avoid plugging in 2 sources simultaneously in the 2 inputs.



POWER SUPPLY

We integrated a worldwide compatible power supply, so you can just plug it in without thinking.

❗ For the most demanding applications, this socket is compatible with secured V-LOCK® power cables (available from our shop).

GROUND LIFT

Use the ground lift to remove unwanted noises from ground loops.

MAINTENANCE

Thanks to their modular design using mainly old school THT components, our products are robust and will be easily serviced for decades. We simply want our products to stand the test of time and become future classics.

Feel free to contact us for any maintenance operation or spare parts, we will always be there to help.

⚠ Safety first! This equipment operates at high voltage. Only qualified electronics technicians should open the device for maintenance.



**For any question,
feel free to contact us at
support@hlab.audio**

H LABS
hlab.audio