

SABRIA AUDIO®

SOURCE TUBE PREAMP

USER MANUAL



**MICROPHONE - INSTRUMENT - LINE - DI BOX
TUBE PREAMP
with SVS (Subtle Vintage Sound)**

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SOURCE PREAMP

INTRODUCTION

One-channel Preamplifier

**Microphone | Instrument | Line | DI Box with tube (12AU7)
SVS function (Subtile Vintage Sound).**

The Source Preamplifier is an exclusive and state-of-the-art piece of engineering. Thanks to its main configuration and component choices, the provided sound is clean and pure. It means that all frequencies, harmonics, and sound treatment are fully respected and accept a high range of loudness. And that's not all...

Description of the input audio circuitry

- **Microphone input:** passes through a high-end Analog Devices integrated circuit to provide a clean and pure sound for a 100% audio source respect.
- **Instrument input:** it has been adapted with its own dedicated high-end integrated circuit.
- **Line input:** -10dB/+4dB Low-z balanced line source.

Regarding the Output

- **The output (Balanced) of the Source Preamplifier circuitry is Mu push-pull amp with a 12AU7 and a Lundahl transformer which was made as a "sur mesure" model.**
- **As an exclusive function for the tube harmonics treatment, the SVS function (switchable) further provides a subtle harmonics generation.**
- **The noise level and harmonic distortion (Thd+N) are so low that it's impossible to measure.**

WE WISH YOU GREAT RECORDINGS.



CONDITIONS OF USE | INSTALLATION

IMPORTANT SAFETY INSTRUCTIONS

- 1- Do not use this unit near water.
- 2- Clean only with a dry cloth.
- 3- Do not install near any heat sources such as radiators, heat registers, stoves, or other units that produce heat.
- 4- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. Only use the power supply unit provided by Sabria-Audio.
- 5- Protect the power cord from being walked on or squashed particularly on plugs, convenience receptacles, and the point where they exit from the unit.
- 6- Only use attachments/accessories specified by the manufacturer.
- 7- Unplug this apparatus during lightning storms or when unused for long periods of time.
- 8- Refer all servicing to qualified service personnel. Servicing is required when the unit has been damaged in any way, such as power-supply cord or the plug is damaged, liquid has been spilt or objects have fallen into the unit, the unit has been exposed to rain or moisture, does not operate normally, or has been dropped.

- **WARNING ELECTRIC SHOCK HAZARD Only authorized personnel can service this equipment.**
- **This unit should be connected to a mains socket outlet with a protective earthing connection.**
 - Mains powered units should not be exposed to dripping or splashing. No objects filled with liquids, such as vases or drinking glasses, should be placed on the unit.
 - Turning off the power switch does not completely isolate this product from the power line.
 - Keep the power plug easily accessible. Do not install this equipment far from a power outlet and/or power strip.
 - Do not install this equipment in a confined space such as a box for conveyance or similar unit.
 - The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, table-cloths, curtains, etc.
 - No naked flame sources, such as lighted candles, should be placed on the unit.
 - The rating label is located on the back of the unit.
 - The provided power supply complies with all European, US and Japanese standards.

SABRIA-AUDIO Warranty: 3 years. (Check the warranty policy at Sabria-Audio.com)



Section A - Front panel features



1 - Jack Hi-Z instrument Neutrik Input | Neutrik Jack 6.35mm Instruments types
Accepts all passive or active Hi-Z unbalanced (asymmetric) inputs like guitars, electric pianos, synths, etc. Gain: 13dB to 40dB.

2 - Bargraph | Optimal 4-LED level indicator
Yellow SIG LED for signal presence level, green -10dB LED, green 0dB LED, OL (Overload) red LED +3dB.

To adjust the perfect gain and ensure an optimized circuitry work, the two green LEDs have to be active.

NOTICE: The OL red LED is NOT an absolute limit, and has its electronic and measure coherence but works like an indicator of a +4dBu level. The Dual Pre electronics tole-



rance is made to absorb and magnify harmonically the input source to go above the +4dBu level so if the right OL LED is blinking, only your hearing has to detect the right and critical point.

3 - Gain potentiometer

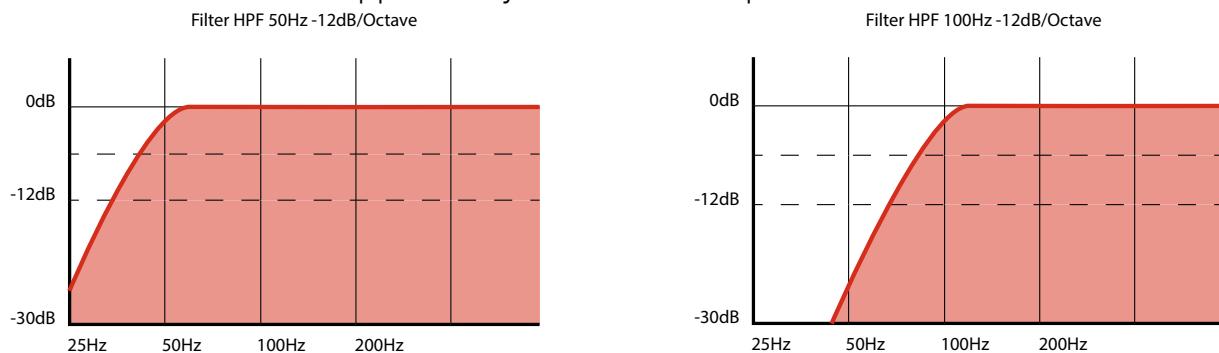
With two dB scales, one for the microphone (33dB to 60dB) input and the other (13dB to 40dB) for Instruments input (HiZ).

NOTICE: The Filter can be applied only on Mic & Inst inputs. **Level of connected line source.**

4 - Hi-pass Filter NA/50Hz/100Hz with red LED (3-pos switch).

The high-pass filter attenuates content below a cutoff frequency, allowing higher frequencies to pass through the filter. In this case, we can select two cutoff frequencies, 50Hz or 100Hz with a 12dB slope. It's a rumble filter.

NOTICE: The Filter can be applied only on Mic & Inst inputs.



5 - Microphone Input | Neutrik Xlr

It accepts all types of microphones, condenser, dynamic, ribbon, etc.

Check the user guide or contact the manufacturer concerning any equipment you are connecting.

This Mic Input had been duplicated on the rear panel. Be sure to connect one or other mic input, but NOT BOTH of them.

6 - Inputs Select | Mic / Inst / Line (3-pos switch)

The inputs selector permits selection of the incoming signal.

NOTICE: The Line Xlr input is on the Source Preamp backpanel. The gain of your line source is not controlled by the main Gain potentiometer. Thus, it's necessary to adjust the connected



line source own level.

7 - Phantom Power +48V NA/Active with red led (2-pos switch)

The phantom power is needed with all the condenser microphones. However, some of them will have its dedicated external power supply. In this case, you don't have to activate it on the Source Preamp. Dynamic microphones don't need a phantom power neither.

Check the user guide or contact the manufacturer of any equipment you are connecting if you do not know if it will be damaged by this power.

Connect your microphone first, with the gain at the minimum. Then you can activate the phantom power and adjust the gain.

The phantom +48v is powering the two Mic Inputs (front & rear) at the same time.

8 - Pad -20dB NA/Active with red led (2-pos switch)

The -20dB pad works as an attenuator and operates on Mic and Instrument inputs. If you have a really loud source, to better adjust the gain without peaking, the pad will be the solution.

NOTICE: The Filter can be applied only on Mic & Inst inputs.

9 - Phase Invert NA/Active with red led (2-pos switch) Laius

This device inverts the polarity of a signal will simply swap positive voltage to negative voltage and vice versa. The Phase Invert permits a 180° phase inversion.

10 - Fonction SVS (Subtile Vintage Sound) NA/Active with red led (2-pos switch)

As an Sabria-Audio exclusive function for the tube harmonics treatment, the SVS function gives a subtile harmonics distortion for ALL sound sources.

11 - Front Tube aeration

Permits the front/ rear ventilation. The 12AU tube is plugged in the axis of this hole.

12 - Power Supply indicator with led.

The lighting red led incates that the Source Preamp is powered.

THE SOURCE PREAMP GAIN CONTROL IS MADE TO OPTIMIZE FULLY THE OPERATING LEVEL OF ITS CIRCUITRY, REVEAL TOTALLY YOUR INPUT SOURCE AND AT THE END PROVIDES YOU A COMPLETE TECHNICAL COHERENCE.



Section B - Rear panel features



1 - Main Output Xlr Neutrik
Balanced 600 Ohms main output.

2 - Main Output +4db/-10dB selector

The +4db/-10dB is the operating level of the balanced Output. To optimize the audio results, the main principle is to adapt all the audio chains to one or another level. Check the main characteristics of your equipment (audio interfaces, mixers, powered speakers). It's technically important to adjust it to have a coherent chain.

3 - Ground Lift 2-pos switch NA/Gnd Lift

Additional equipment and even the environment can add hums and noise due to ground -to-balanced signals. The "lift" position disconnects the audio ground from the earth ground and avoids the ground noise, commonly in live conditions.

**4 - Hi-Z Link | Jack 6,35mm Neutrik**

The Hi-Z link is a parallel circuit from the front panel Instrument input. It reproduces exactly the incoming signal to feed an instrument amp, tuner for example. See Section D - Audio configurations.

5 - Microphone Input Xlr Neutrik

On this panel, a Mic Input has been added as a duplicated input. Be sure to connect one or another mic input, but NOT both of them.

It accepts all types of microphones, condenser, dynamic, ribbon, etc.

Check the user guide or contact the manufacturer concerning any equipment you are connecting.

6 - Line Input Xlr Neutrik

Balanced input for the «Line level» equipment. The gain in the line source is not controlled by the main Gain potentiometer. Thus, it's necessary to adjust the connected line source's level.

7 - Line +4db/-10dB selector

The +4db/-10dB is the operating level of the balanced Output. To optimize the audio results, the main principle is to adapt all the audio chains to one or another level. Check the main characteristics of your equipment (audio interfaces, mixers). It's technically important to adjust it to have a coherent chain.

NOTICE: The Line input is dedicated to Low-Z balanced Xlr connection.

8 - On/Off switch

Powers the Source Preamp. Internal toroidal transformer 100V-230V AC supply.

9 - Fuse

The characteristics of this fuse are: 1AT (T for temporized)

10 - IEC Cable

The Source Preamp IEC power supply is available in three configurations: European 230V, America 120V and Japan 100V. with the adapted IEC cable plug.



Section C - Specifications

- Tube: 12AU7
- Output Transformer: Lundahl (Exclusive model for Sabria-Audio)
- SVS (Subtile Vintage Sound) : Sabria-Audio exclusive harmonics generation on all inputs
- Bandwidth @ -0.5dB | Mic In: 11hZ to 32kHz | Hi-Z In: 11hHz to 32kHz | Line In: 6Hz to 51kHz
- Bandwidth @ -3dB | Mic In: 3hZ to 49kHz | Hi-Z In: 3hHz to 49kHz | Line In: 3Hz to 66kHz
- Max. Level out (600Ω load): 8V8 / 21dBu
- Max Input | Mic In: 120mV | Hi-Z In: 2V1
- Max Input with Pad | Mic In: 800mV | Hi-Z In: >7V
- Max. Total gain (600Ω load) | Mic: 59.5dB | Hi-Z: 40dB | Line: 12dB
- Inputs impedance | Mic: 4.2 kΩ | Hi-Z: 510kΩ | Line: 20kΩ
- Hpf (Hipass filter): -3dB @ 51Hz | -3dB@102Hz
- Bargraph: Yellow (Signal) -30dB / Green#1 -10dB / Green#2 -2dB / Red (OL) +4dB @1kHz

AC Power: 115v-230V (Toroidal transformer)

Fuse (Temporized): 1AT

Dimensions: 222 mm (W) x 335 mm (D) x 88 mm (H)

Weight: 3.7 kg

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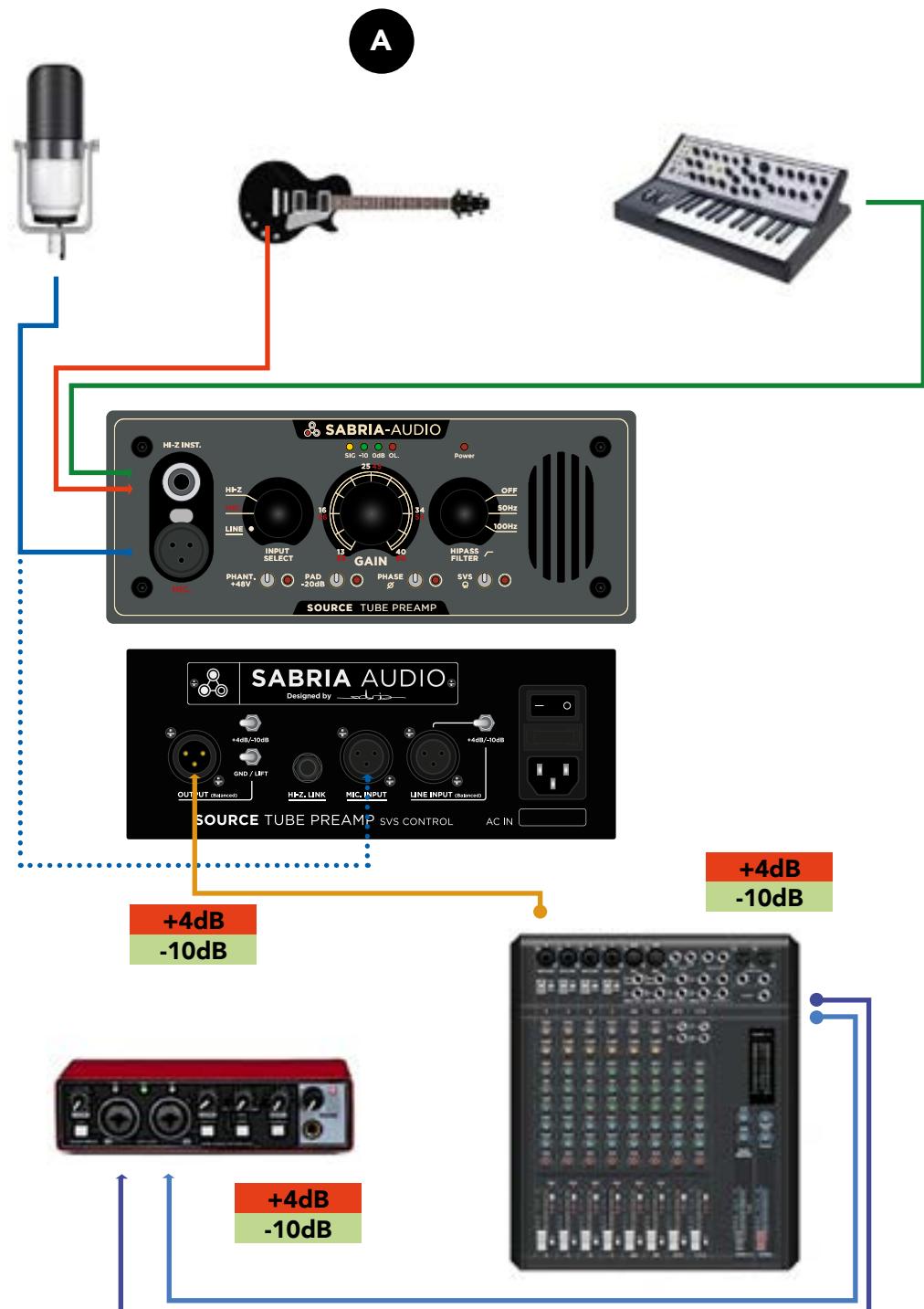
Section D - Content

Source Preamp

IEC Cable

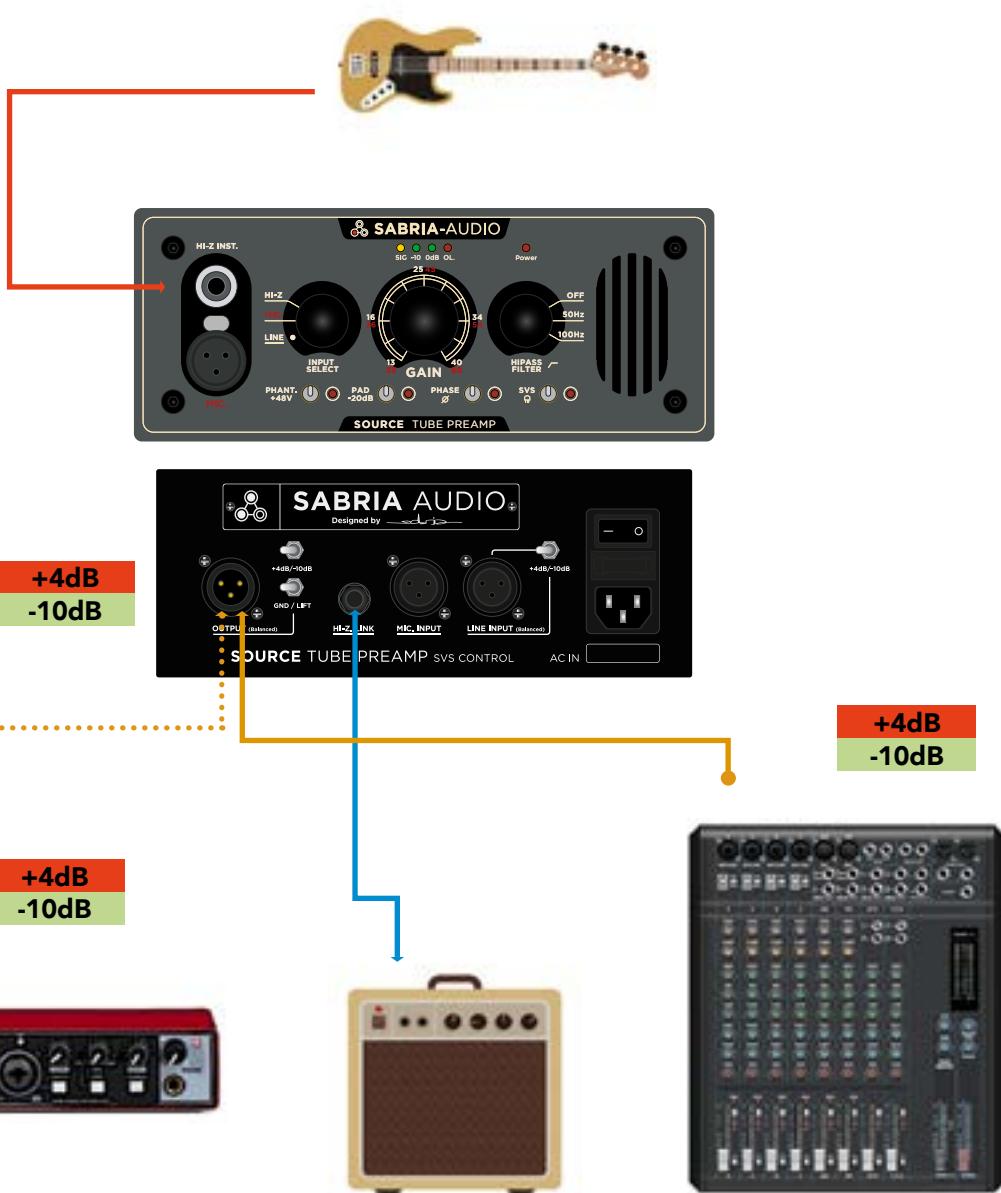


Section D - Audio Configurations (Examples)





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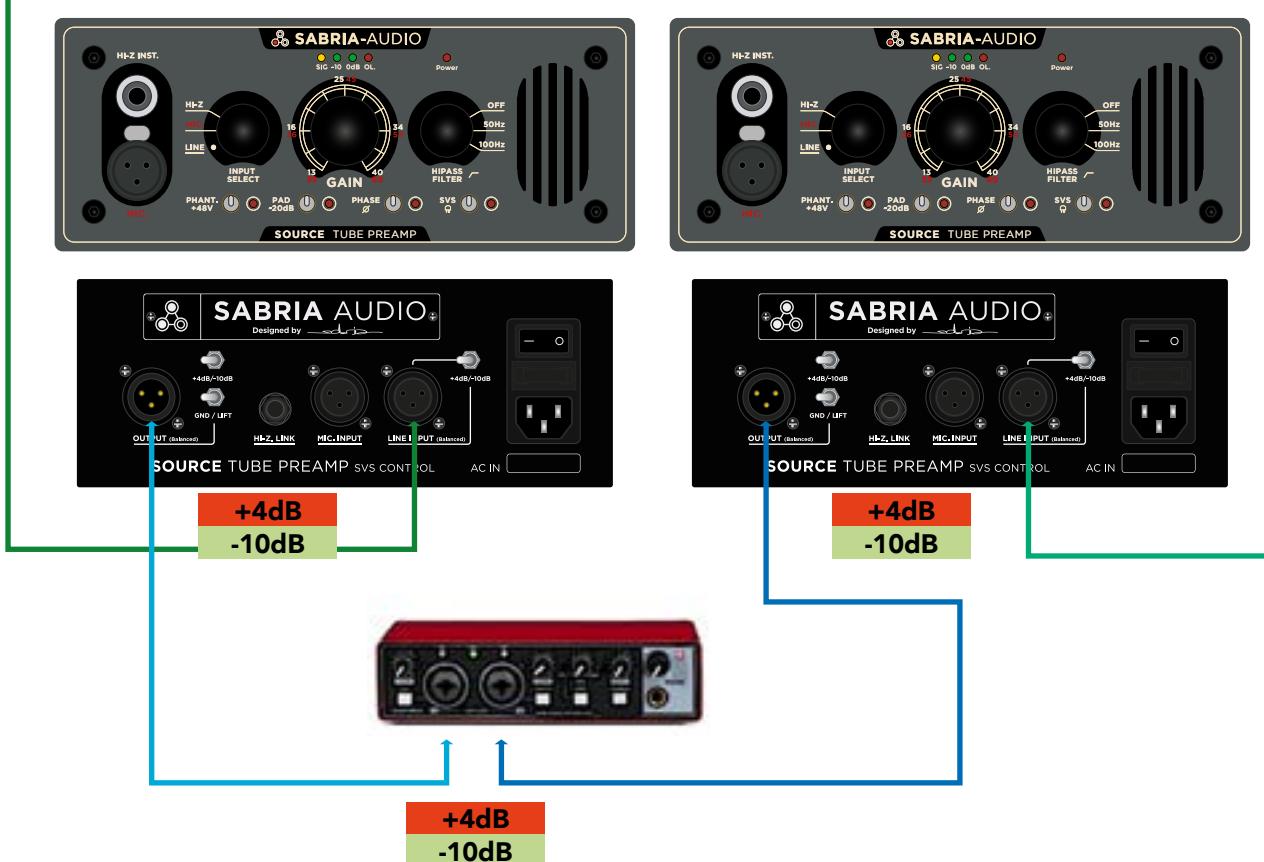




C



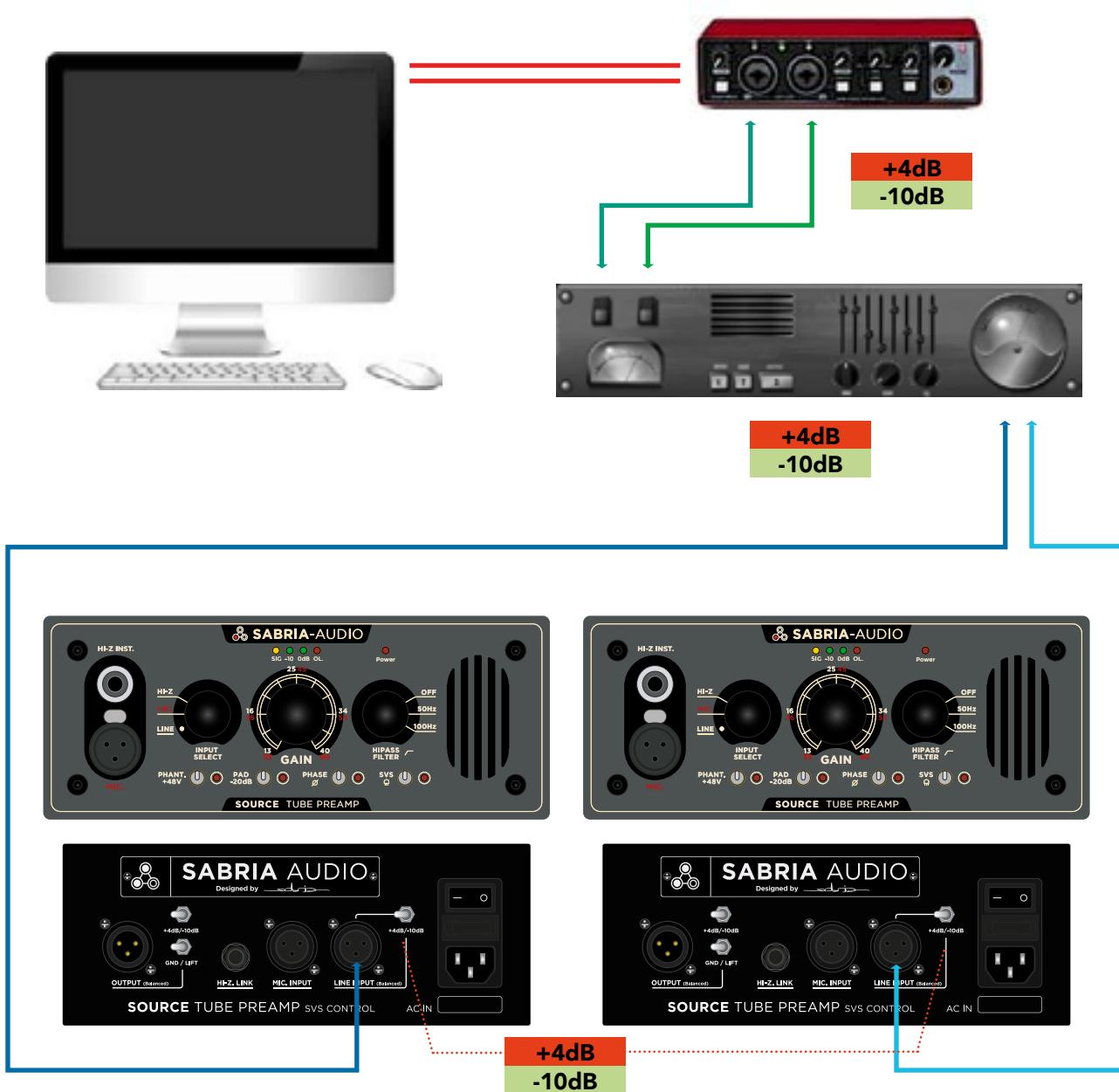
+4dB
-10dB



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D





Section E - Accessories (Check it on www.sabria-audio.com)

P-RACK ONE

The P-Rack One 19 inches mounting kit contains two equal steel ears to rack one Source Preamp in all 19 inches standard racks. Fits with recording studios and all racks on the market and its solidity is adapted to studio and live conditions of use.

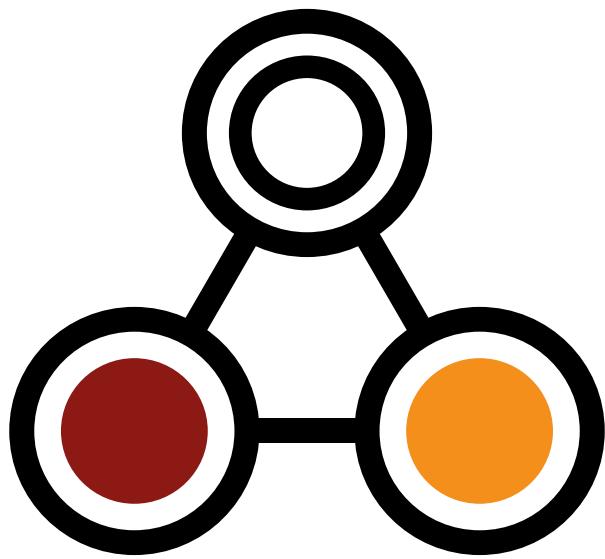


RACK MOUNTING KIT TYPE II

The P-Rack Two 19 inches mounting kit contains two steel ears and two steel plates and all the needed screws to join two units of Dual Pre, fitting obviously with all 19 inches standard racks. Fits with recording studios and all racks on the market and its solidity is adapted to live conditions of use.







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SABRIA-AUDIO.COM