# SOLID 4000 MIX BUSS

STEREO BUSS PROCESSOR – RACK VERSION

# OPERATOR'S MANUAL

Version 1.3

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# INTRODUCTION

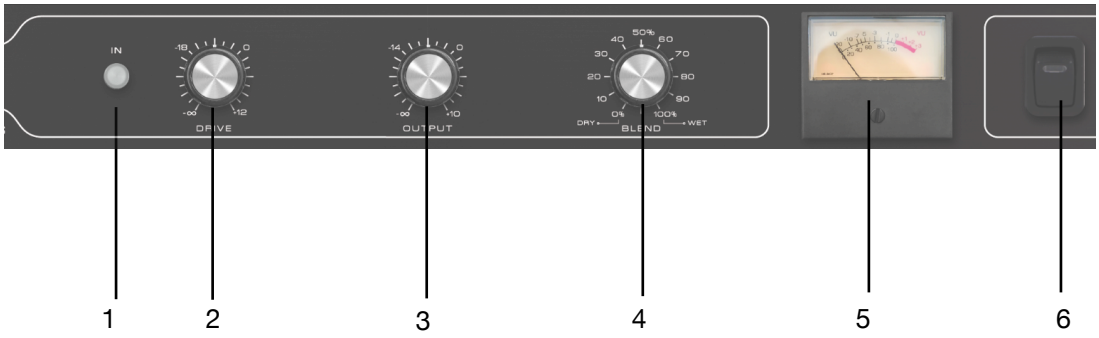
The **Solid 4000 Mix Buss** is a **stereo** processor that glues together and brings life to a mix. Based in the classic british consoles, it has the same bus circuit that the **Solid 4k–500 series** of the **Epsilon 32–500 summing mixer**. And very simple to use: Drive, Ouput and Blend controls.

The **Solid 4000 Mix Buss** is designed to be used mostly as an insert on the mix bus, but can also be used to enhance instrument group busses. We suggest to insert it before you start mixing and then mix through it. This helps you tailor the mix and get the best sound.

It is important to mention that we recommend find the right **''sweet spot''**, we mean, as you increase the input drive control, the signal will get a saturation level but if you increase it considerably, the saturation may become in distorsion. That's why we recommend looking for an optimal adjustment of the **gain structure**, as in any console or analog mixing system. Or use it as an 'effect' that could be mixed in the amount you need thanks to the Bled control.

For more information please visit: www.kahayan.es

# SETUP AND BASIC ASPECTS




**1. BYPASS SWITCH** of the Mix buss processor.

**2.DRIVE** controls harmonic distortion: It sounds like aggressively hitting a console mix buss. High settings increase grit and drive. Lower settings tend to open up the dynamics. Begin with extreme settings so that you can really hear the effect: ‘’distorsion’’.

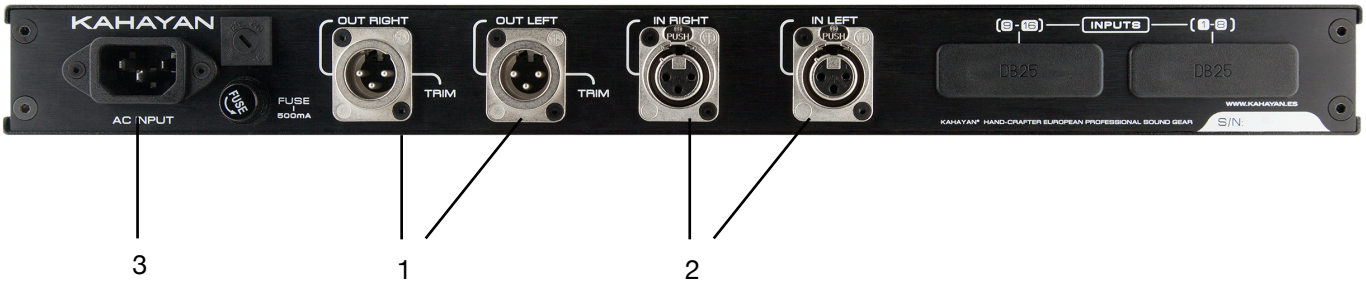
**3. OUTPUT** fader to compensate the output level as you adjust the drive control.

**4. BLEND** The Dry/Wet blend control determines the balance between the original and the processed signal. The range is from 0% (dry, unprocessed) to 100% (wet, processed signal only). And it is located in the signal path after the drive and output control.

**5. VUMETER** It's actually a saturation meter and it is positioned after Drive control. The 0 VU indicates a saturation level close to 1% THD; above that level, the saturation increases. We recommend finding your optimal operating point by ear, also called ‘’sweet spot’’, and identifying it with a specific VU reading. Note: This meter does NOT function like a traditional VU meter found on conventional consoles or equipment.

**6. ON/OFF** Power on/of switch.

Rear panel:



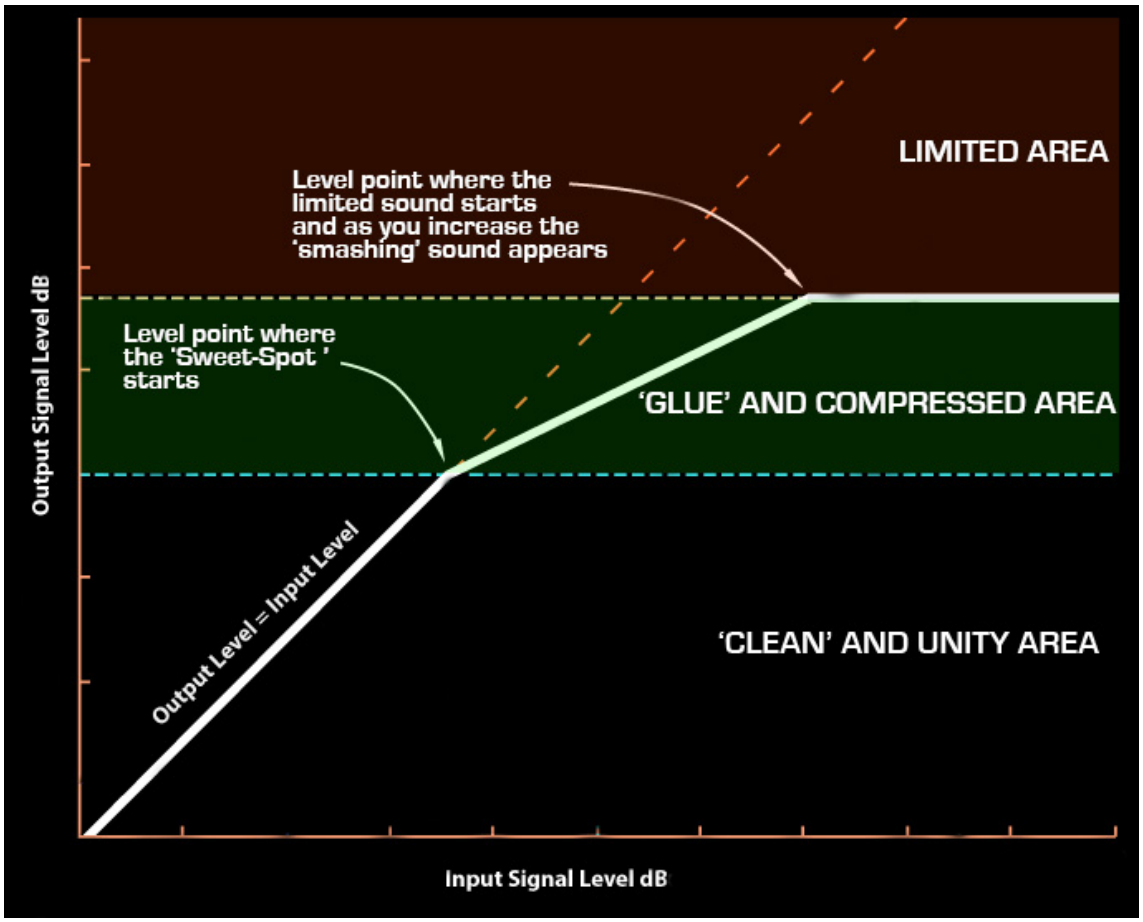

**1. Main outputs**:  Left and Right outputs on XLR.

**2. Main inputs**:  Left and Right inputs on XLR.

**3. AC input**: Power connection.

# GAIN STRUCTURE

The solid 4000 mixbuss stereo processor Works like the summing bus circuit of a british classic console, so depending of the input level you use and how you increase it with the Drive Control (it gives you the control of the input level) you will have 3 areas in the Gain Structure of the unit:



# SPECIFICATIONS

- 1 unit of 19 inch rack format
- Connections: 2 balanced inputs and 2 balanced outputs on XLR
- The Drive Fader allows to attenuate or enhance the stereo signal at -∞ dB to +12 dB
- The Output Fader allows to attenuate or enhance the stereo signal at -∞ dB to +10 dB
- Headroom: +24dBu
- 220/110 volts and 50/60 Hz
- Dimensions (1U): 42x435x285mm (Height x Width x Depth)
- Weight: 4Kg
- The manufacturer reserves the right to change the technical specification of the product without prior notice.

# WARRANTY

These products are guaranteed for a period of two years from the date of shipment to the end user for countries of the European Union. For other countries, please refer to the law in effect.

During the warranty period Kahayan Pro-Audio will, at their discretion, either repair or replace products which prove to be defective, provided that the product is returned to an authorised Kahayan service facility. The warranty will not cover shipping the unit back to the Kahayan service facility, unless the customer determines otherwise with his dealer/distributor.

Defects caused by unauthorised modifications, accident, negligence or any misuse are not covered by this warranty. For further information please contact your dealer or the distributor in your country.

# RECALL SHEET

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## CREDITS

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