

# Súper8

8 CHANNEL TRANSFORMER  
CLASS A MIC PREAMP WITH PREMIUM 24 BIT 192 kHz ADC  
RACKMOUNT



## USER MANUAL

# INTRODUCTION

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Thank you for choosing the **Súper 8**. Heritage Audio is dedicated to bringing you 'the sound of yesterday for tomorrow'. We specialize in capturing that unique, enticing sound that everybody has fallen in love with. For years engineers, producers and musicians have been yearning for that classic vibe. Usually the only option is to search for old, used original equipment that is almost always in a questionable state of operation. This brings with it a whole lot of other issues, making the experience less than desirable. Not to mention the very high prices asked for this equipment, which makes them virtually unobtainable for the great majority. Now it's possible to obtain that same sound with a brand new piece that will give you all the problem-free, heavy-duty use you'll need for years of music making history.

**Peter Rodriguez**  
CEO  
Heritage Audio - Madrid, Spain



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## DESCRIPTION

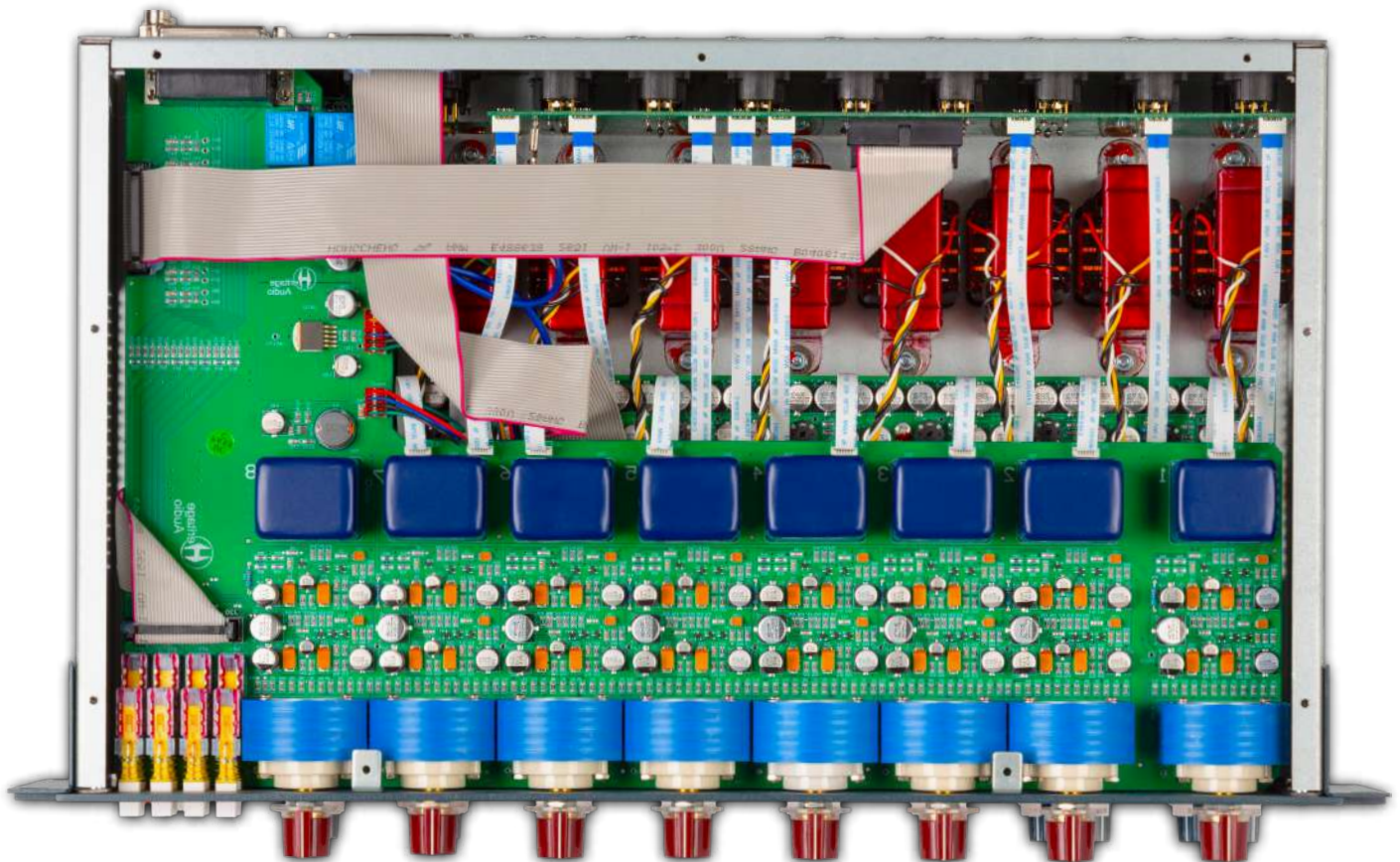
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The Súper 8 offers a fantastic, compact solution for when several high quality preamps and top class conversion is needed.

Using our Class A 73 Preamp building experience we were able to fit 8 MIC/Line preamps into a sturdy 2 unit rack. All 8 are faithful to our 3 stage all Class A design with Carnhill transformers fitted at the input and the output. The first two channels also include our high quality JFET D.I. as well as a fully sweepable Lo-cut filter. All 8 channels include switches for 48 V, Line, Lo-cut(-3 dB at 82 Hz) and Phase.

There is built in analog to digital conversion available on 3 different digital formats: ADAT, AES/EBU and SPDIF with BNC connectors for reliable word clock syncing.

Selectable sampling frequencies from 44.1 kHz to 192 kHz. Not only can the MIC/Line Preamp outputs be directly sent to the ADC, but there also exists the possibility of choosing an alternative input, per channel, for the digital conversion, making this an extremely flexible unit. This can really come in handy if you need to output the preamps to an EQ or compressor before returning them for digital conversion.



# GETTING STARTED

## FRONT



<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
<b>INPUT GAIN SWITCH</b> 5 dB Steps From 30 to 80	<b>MIC INPUT IMPEDANCE (Lo z)</b> 1200 Ω or 300 Ω when pressed	<b>MIC PAD PUSH BUTTON</b> - 20 dB Pad, Ahead of the Input Transformer	<b>OUTPUT ATTENUATOR</b> Attenuates from 0 to Infinity	<b>HIGH PASS FILTER</b> -3 dB at 82 Hz, Discrete Class A
<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
<b>PHASE PUSH BUTTON</b> Flips phase 180°	<b>LINE PUSH BUTTON</b> Switches from MIC/D.I. to Line	<b>HIGH PASS FREQUENCY SELECTOR</b> Continually Adjustable CutOff for HPF	<b>PHANTOM POWER SWITCH</b> Turns Phantom Power On	<b>D.I. INPUT</b> High Impedance Class A JFET
<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	
<b>ADC ROUTING BUTTONS</b> Switch Between the Preamp Or the Returned Signal for ADC	<b>FREQUENCY INDICATOR</b> Sampling Frequency of the ADC	<b>FREQUENCY SELECTOR FOR ADC</b> To Choose the Desired Sampling Frequency of the ADC	<b>POWER BUTTON ON/OFF</b> Turns the Unit On	

D.I. Jack:	
Tip: Signal Sleeve: Ground	<p>Tip Tip=Signal Sleeve Sleeve=Ground/Shield</p>

## REAR



<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
<b>AES/EBU or SPDIF PUSH BUTTON</b> Alternates Between AES/EBU and SPDIF Formats	<b>25 PIN D-SUB(DB25) CONNECTOR</b> ADC Returns 1-8	<b>25 PIN D-SUB(DB25) CONNECTOR</b> OUTPUTS Line Outputs 1-8	<b>25 PIN D-SUB(DB25) CONNECTOR</b> INPUTS Line Inputs 1-8	<b>INPUTS</b> On Gold Plated XLRs
<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
<b>BNC IN &amp; OUT CONNECTOR</b> Connect for Wordclock Syncing	<b>75 Ohm TERM PUSH BUTTON</b> Push to Activate Termination	<b>AES/EBU &amp; SPDIF 9-PIN CONNECTOR</b> Connect Cable to Use Either Format	<b>ADAT - S/MUX Optical Ports</b> Outputs on Digital ADAT Format	<b>EXTERNAL POWER INPUT</b> <b>HA-PSU02</b> On Gold Plated XLR5
<b>11</b>				
<b>OUTPUTS</b> On Gold Plated XLRs				

The silkscreen on the rear of units with serial numbers from XX430001 to XX430200 for the buttons "75 Ohm TERM." and "AES/EBU SPDIF" are crossed with each other.

Meaning that the button "75 Ohm TERM." is actually the one for "AES/EBU SPDIF" and the button "AES/EBU SPDIF" is the one for "75 Ohm TERM."

### DIGITAL CONNECTION OPTIONS



**AES/EBU**



**SPDIF**



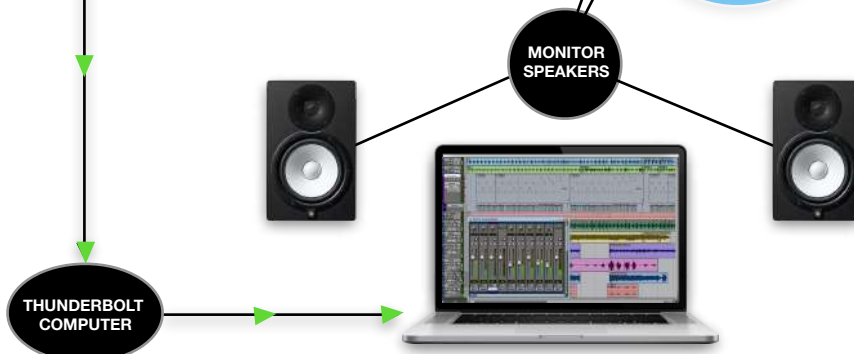
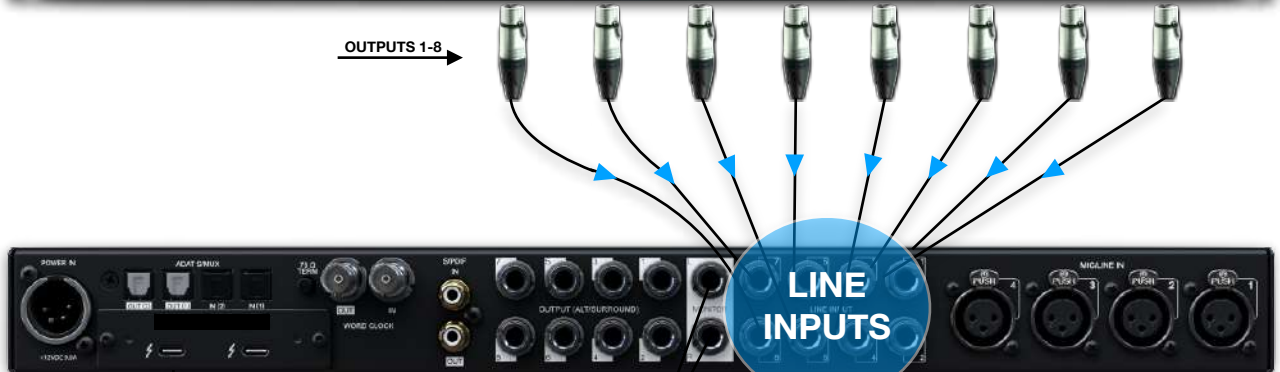
**ADAT/SMUX**

All XLRs are:	MALE XLR	FEMALE XLR
Pin 1: GND Pin 2: Hot Pin 3: Cold		
	GND Hot (+) Cold (-)	GND Hot (+) Cold (-)

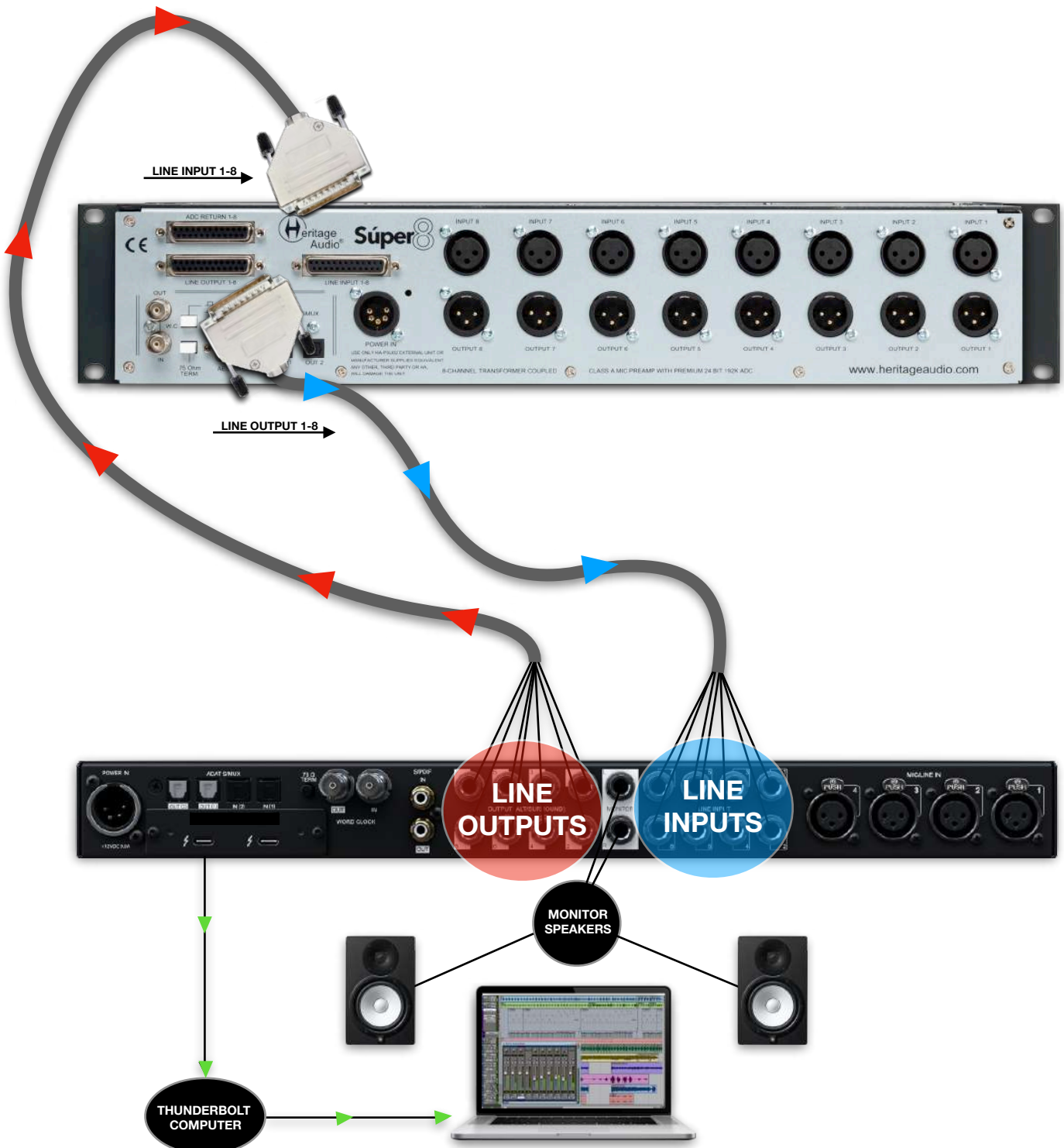
MIC PRE  
WITHOUT CONVERSION



1 - MIC INPUT	KICK
2 - MIC INPUT	SNARE ↑
3 - MIC INPUT	SNARE ↓
4 - MIC INPUT	HI HAT
5 - MIC INPUT	TOM 1
6 - MIC INPUT	TOM 2
7 - MIC INPUT	OH - L
8 - MIC INPUT	OH - R



# LINE PROCESSING



# MIC PRE ADAT CONVERSION

BUTTONS MUST BE PUSHED



1 - MIC INPUT	KICK
2 - MIC INPUT	SNARE ↑
3 - MIC INPUT	SNARE ↓
4 - MIC INPUT	HI HAT
5 - MIC INPUT	TOM 1
6 - MIC INPUT	TOM 2
7 - MIC INPUT	OH - L
8 - MIC INPUT	OH - R

SET F.S.  
TO  
EXTERNAL

INPUTS 1-8



WORD CLOCK IN

WORD CLOCK OUT



MONITOR  
SPEAKERS

THUNDERBOLT  
COMPUTER





**EXTERNAL INPUT TO ADC**

BUTTONS NOT PUSHED



1 - MIC INPUT	KICK
2 - MIC INPUT	SNARE ↑
3 - MIC INPUT	SNARE ↓
4 - MIC INPUT	HI HAT
5 - MIC INPUT	TOM 1
6 - MIC INPUT	TOM 2
7 - MIC INPUT	OH - L
8 - MIC INPUT	OH - R



INPUTS 1-8



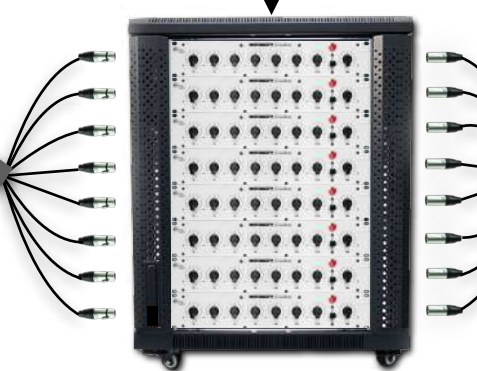
OUTPUTS 1-8

**NOT PUSHED FOR AES/EBU USE**

9 PIN TO AES/EBU XLR BREAKOUT CABLE

SÚPER 8 OUTS TO EXTERNAL EQs

RACK OF 8 EQs



AUDIO INTERFACE

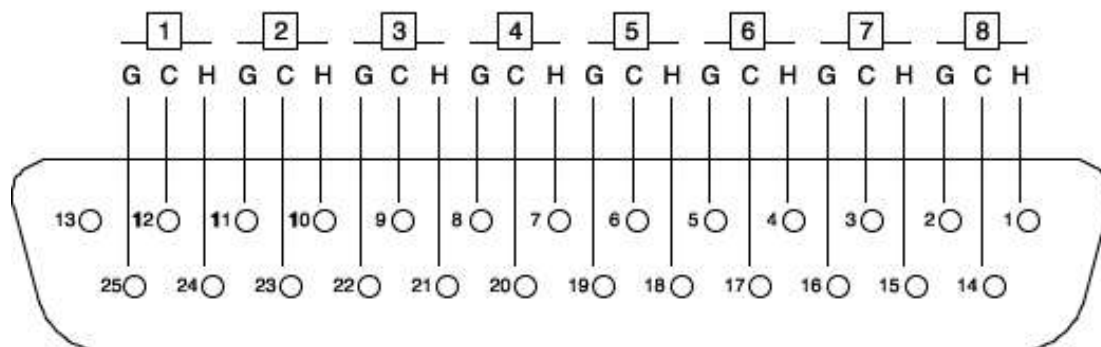
USB TO COMPUTER



## WIRING FOR DB25 CONNECTORS

All DB25 multi pin connectors are TASCAM protocol. This same protocol is also used by AVID amongst many others, and is as follows:

### Pin-out for TASCAM DB25 8 Channel Balanced Connector



H = HOT  
C = COLD  
G = GROUND

The list of the DB25 connectors used and their corresponding channels are as follows:

CHANNEL INPUTS 1-8:		CHANNEL OUTPUTS 1-8:		ADC RETURNS 1-8:	
TASCAM DSUB CHANNEL #	CHANNEL I/P 1-8	TASCAM DSUB CHANNEL #	CHANNEL O/P 1-8	TASCAM DSUB CHANNEL #	ADC RETURNS 1-8
1	INPUT # 1	1	OUTPUT # 1	1	ADC RETURNS # 1
2	INPUT # 2	2	OUTPUT # 2	2	ADC RETURNS # 2
3	INPUT # 3	3	OUTPUT # 3	3	ADC RETURNS # 3
4	INPUT # 4	4	OUTPUT # 4	4	ADC RETURNS # 4
5	INPUT # 5	5	OUTPUT # 5	5	ADC RETURNS # 5
6	INPUT # 6	6	OUTPUT # 6	6	ADC RETURNS # 6
7	INPUT # 7	7	OUTPUT # 7	7	ADC RETURNS # 7
8	INPUT # 8	8	OUTPUT # 8	8	ADC RETURNS # 8

It is worth noting that, in order to avoid ground loops, the DB25 ground connections are lifted on the Súper 8 side, leaving the ground paths of your DB25 snakes only acting as shields and preventing any current returns.



## ANALOG I/O

- **Microphone input impedance only channels 1 & 2:** High=1200  $\Omega$  minimum; Low= 300  $\Omega$  minimum. Higher gain positions gradually have greater impedances, optimum for low gain ribbon mics. Input is transformer balanced and floating.
- **Microphone input impedance only channels 3-8:** High=1200  $\Omega$  minimum.
- **Line input impedance:** 10 k $\Omega$  bridging, transformer balanced and floating.
- **Output impedance:** Less than 75  $\Omega$ , transformer balanced and floating, to drive a load of 600  $\Omega$ .
- **D.I. input impedance:** Greater than 2 M $\Omega$ , unbalanced (Only Channels 1 & 2).
- **Maximum output:** Greater than +26,5 dBu into 600  $\Omega$  (internally terminated).
- **THD:** Less than 0,025 % at 1 kHz, Less than 0,05 % at 100 Hz.
- **Frequency response:** 20 Hz (+0,3 dB) to 20 kHz (-0,2 dB).
- **Maximum Gain:** Slightly greater than 80 dB.
- **Equivalent Input Noise:** Less than -125 dBu.
- **Output stage noise:** Less than -100 dBu.

## DIGITAL CONNECTIONS

### S/PDIF

- **Connector Type:** 9 PIN Breakout Cable (RCA).
- **Format:** IEC 958.
- **Supported Sample rates (kHz):** 44.1, 48, 88.2, 96, 176.4, 192.

### AES/EBU

- **Connector Type:** 9 PIN Breakout Cable (XLR).
- **Format:** IEC 60958.
- **Supported Sample rates (kHz):** 44.1, 48, 88.2, 96, 176.4, 192.

### ADAT

- **Connector Type:** Optical TOSLINK JIS F05.
- **Format:** ADAT Digital Lightpipe with S/MUX.
- **Supported Sample rates (kHz):** 44.1, 48, 88.2, 96, 176.4, 192.
- **Channel Assignments @ 44.1 kHz, 48 kHz:** Port 1 = Channels 1 – 8.
- **Channel Assignments @ 88.2 kHz, 96 kHz:** Port 1 = Channels 1 – 4, Port 2 = Channels 5 – 8.
- **Channel Assignments @ 176.4 kHz, 192 kHz:** Port 1 = Channels 1 – 2, Port 2 = Channels 3 – 4.

### Word Clock

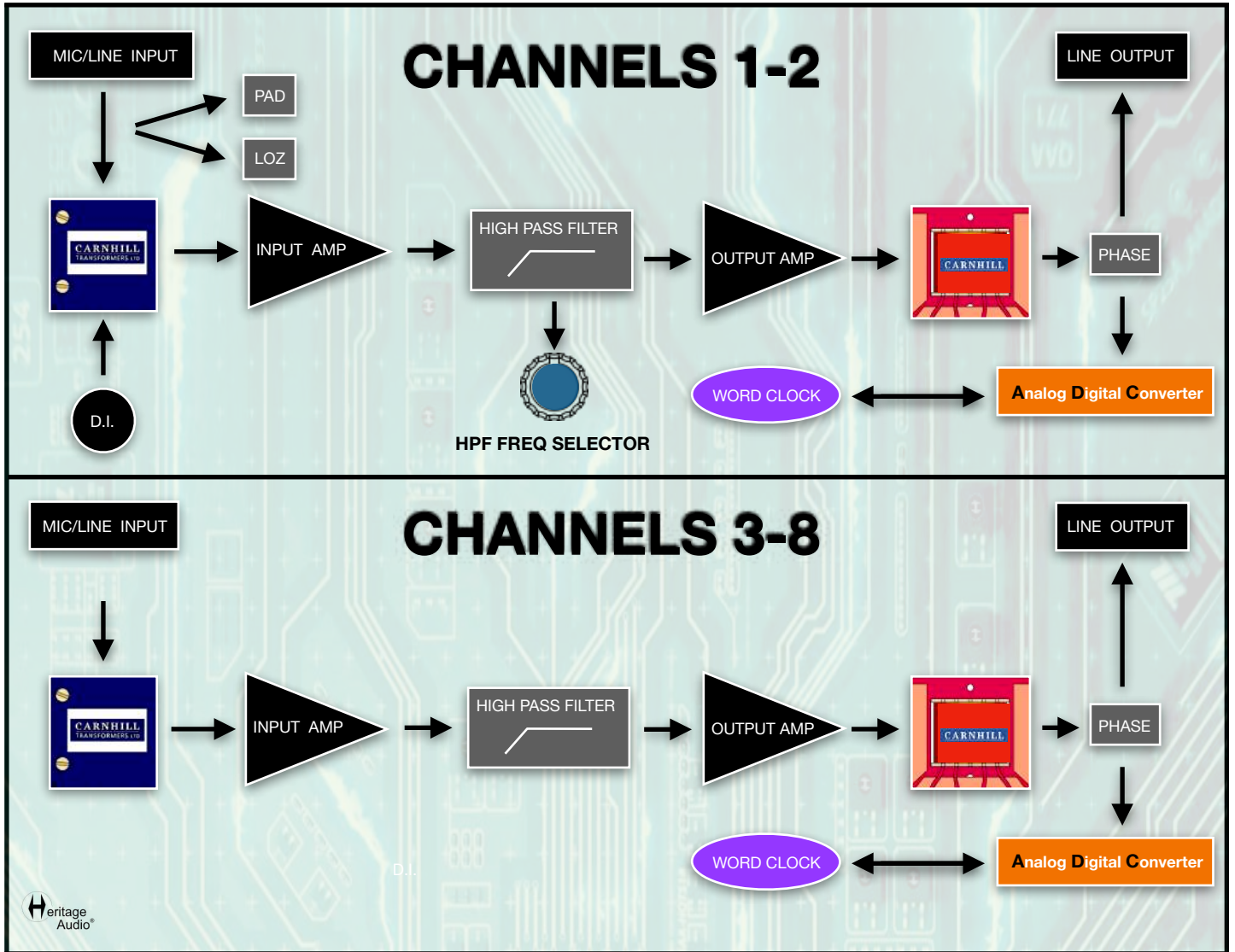
- **Connector Type:** BNC.
- **Word Clock Input Termination:** 75  $\Omega$ , switchable.

### Synchronization Sources

- **Internal, Word Clock (EXTERNAL).**

### Dimensions/Weight

- **Dimensions (W x H x L):** 280 mm x 88 mm (2 Rack units) x 482 mm.
- **Weight:** 9,450 Kg



## TROUBLE SHOOTING



PROBLEMS	SOLUTIONS
There doesn't appear to be any signal at all arriving at the back XLR.	Make sure the GAIN knob is not in the 'Off' position.
There still doesn't appear to be any signal at all arriving at the back XLR.	Check to see if a jack cable has been left plugged into the front panel D.I.
Even at the lowest position on the GAIN knob I still have too much gain.	When this happens you should activate the PAD button. This will reduce the input by 20dB ahead of the input transformer.
Condenser microphones don't seem to work with Súper 8.	Make sure the red +48 V button is pressed in to activate the phantom power sent to the microphone.
There doesn't seem to be any output at all from the unit.	Check to see if the OUTPUT knob is fully turned down as this will attenuate the signal completely.
Sending a signal to the unit from a DAW overloads it terrible.	It is necessary to press the LINE button when sending it a line level source. If not, it is expecting a Microphone signal with a very different impedance.
There is no signal arriving from the ADC.	Make sure the corresponding button in the ADC Routing is pressed if the Preamps direct out is desired.
There is still no signal arriving from the ADC.	Double check that the appropriate connector is indeed inserted properly.
There are clicks being generated.	Make sure you have selected the correct Sampling Frequency.
There are clicks being generated.	Make sure you are using a BNC cable to connect the Word Clock if being slaved.
There are unexpected noises and/or jitter being produced.	If your unit is the last in a group of digitally synced units you should press the '75 Ohm Term' button.
I have everything connected correctly but I'm still not receiving any signal in my DAW.	Make sure you have selected the correct INPUT routing in your DAW.
I have everything connected correctly to use the SPDIF output but there is no signal arriving at the DAW.	Make sure you have correctly selected the button that choose either SPDIF or AES/EBU.

\* For any further doubts or questions please get in contact with us at: [support@heritageaudio.com](mailto:support@heritageaudio.com)

## WARRANTY STATEMENT

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### LIMITED 2 YEAR WARRANTY

Heritage Audio Súper 8 is warranted by Heritage Audio SL to be free from defects in materials and workmanship for the period of 2 years to the original purchaser. In the event of such defects, the product will be repaired without charge or, at our option, replaced with a new one if delivered to Heritage Audio prepaid, together with a copy of the sales slip or other proof of purchase date. The warranty excludes problems due to normal wear, abuse, shipping damage or failure to use the product in accordance with the specifications.

Heritage Audio shall not be liable for damages based upon inconvenience, loss of use of the product, loss of time, interrupted operation or commercial loss or any other damages, whether incidental, consequential or otherwise.

This warranty is not transferable.

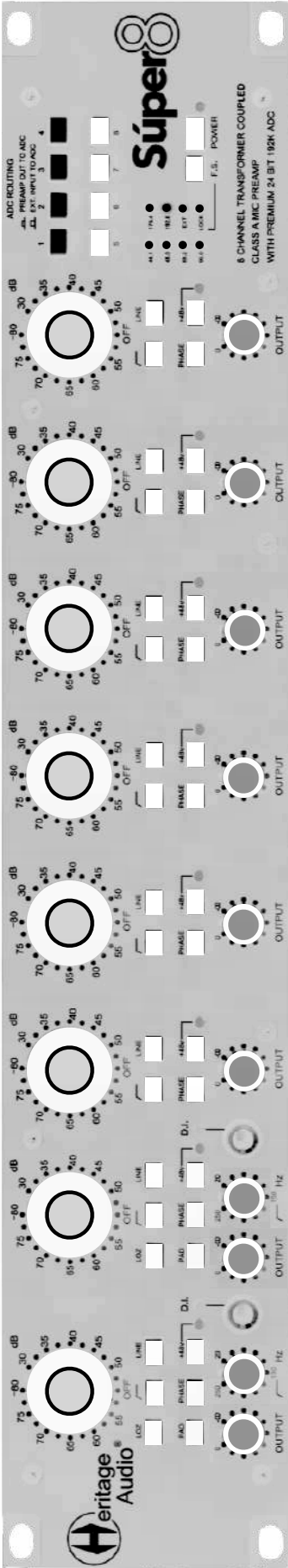
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## REGISTRATION

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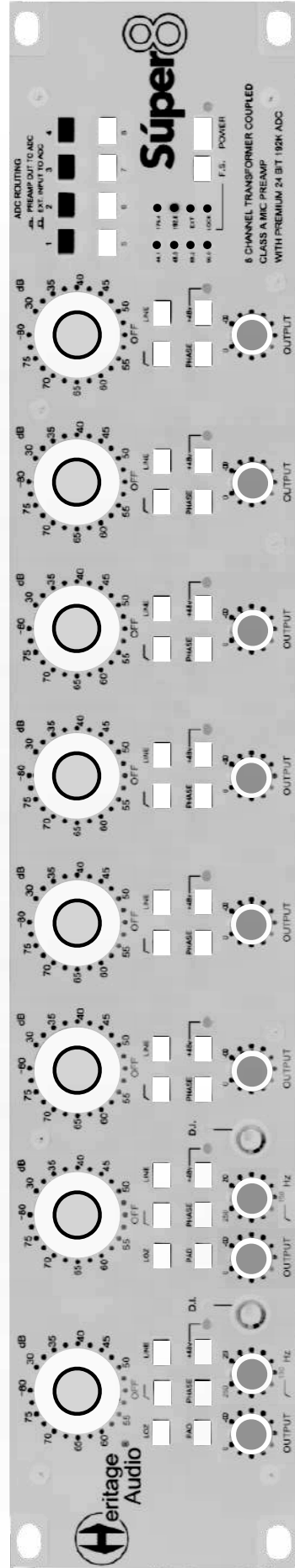
Please visit our website: <https://heritageaudio.com/registration/>



Session / Title: \_\_\_\_\_ Track: \_\_\_\_\_ Connected Equipment: \_\_\_\_\_

Date: \_\_\_\_\_ Instrument: \_\_\_\_\_ Sampling Frequency: \_\_\_\_\_ Internal:  External:  Switch ON  Switch OFF

Notes: \_\_\_\_\_



Session / Title: \_\_\_\_\_ Track: \_\_\_\_\_ Connected Equipment: \_\_\_\_\_

Date: \_\_\_\_\_ Instrument: \_\_\_\_\_ Sampling Frequency: \_\_\_\_\_ Internal:  External:  Switch ON  Switch OFF

Notes: \_\_\_\_\_



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