

HA-73 EQ

MONO CHANNEL CLASS A
MICROPHONE PREAMP / 3 BAND EQ

ELITE SERIES



USER MANUAL



INTRODUCTION

Thank you for choosing the Elite Series **HA-73EQ**. 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

HA-73 EQ

The HA73EQ Elite is made to the same specifications as the acclaimed 73 JR II, 73EQ JR and DMA 73 Heritage Audio models at a price never heard before.

Leveraging the expertise and reputation obtained with its popular hand wired, extremely time-consuming hand soldered series, Heritage Audio is able to offer a zero compromise, high quality yet very affordable alternative to the growing entry-level brands.

A combination of mass production, lean manufacturing and modern construction techniques, minimizes hand labor and therefore its high associated costs when manufacturing takes place in Western Europe. By passing the savings straight into the end users' pockets, Heritage Audio releases the most affordable outboard preamps and equalizers in its class up to date.

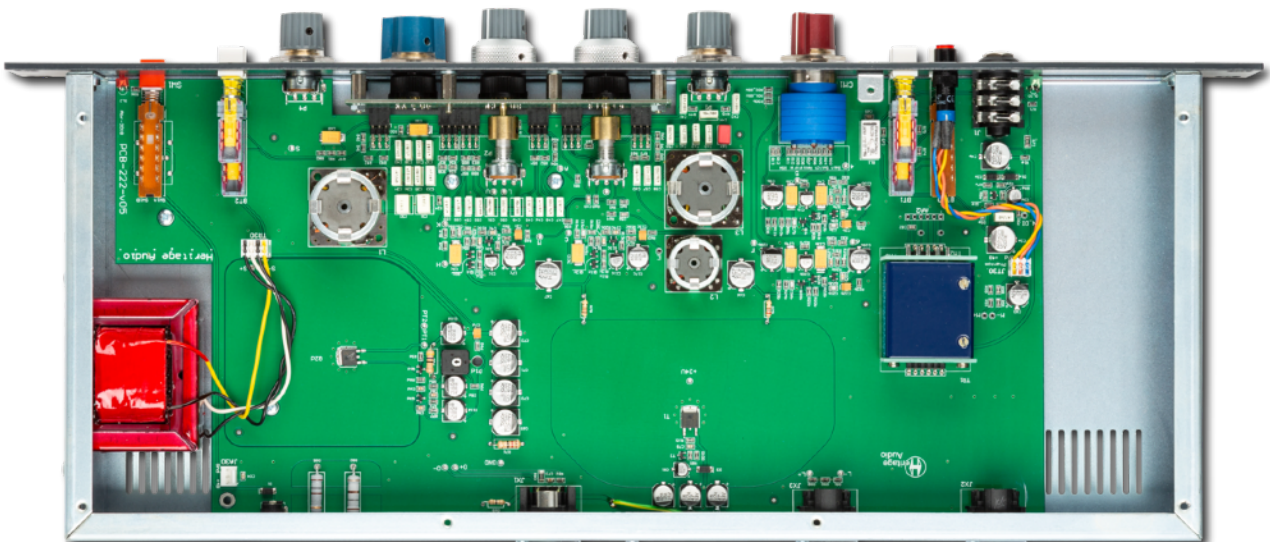
Key components to obtain a true vintage sound are indeed maintained, like the industry standard Carnhill transformers, hand wound in St Ives, England.

Manufactured in the same Spanish facilities as the rest of the Heritage Audio line of products, the HA73EQ Elite rack mountable mic preamp equalizer presents the complete classic recording channel that, for generations, has been regarded for its rich, musical qualities and its ability to dramatically improve the sound of almost any source.

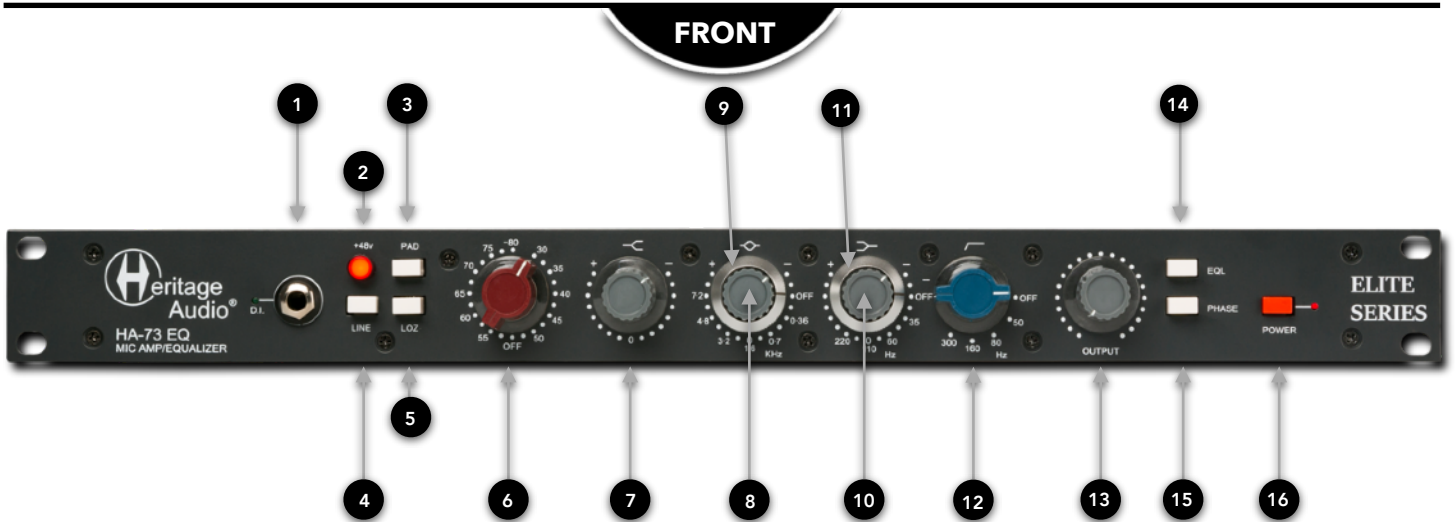
No 73 equalizer will present the correct equalization curves without high quality capacitors and, most importantly, correct "Vinkor" type pot core inductors. More than often this type of products have these expensive inductors replaced with generic ferrite core ones or, even worst, the mid band dual inductor replaced with a single one. Never in Heritage Audio products!!, as the impact of replacing these to the eq curves is dramatic, leading to incorrect curve's shapes and high frequency phase distortion which in no way honor the design.

The HA-73 EQ Elite employs WIMA 5% capacitors in the EQ section as well as 3 correct vintage type "Vinkor" pot core inductors so the eq curves are virtually undistinguishable from the handmade equalizers in the Heritage Audio line. Customers can expect the same sonic quality and feel they have come to appreciate from Heritage Audio.

The HA-73 EQ's preamp section features gain, output trim, -20 db pad, polarity reverse, a high pass filter, and +48 V phantom power. The HA-73 EQ's EQ section features a high shelving EQ, midrange EQ, low shelving EQ, a variable high pass filter, and EQ Bypass,. The HA-73 EQ comes housed in a rugged 1RU British steel and aluminum chassis and utilizes an external power supply for low noise operation.



GETTING STARTED



1	2	3	4	5
D.I. INPUT High Impedance Class A JFET	PHANTOM POWER SWITCH Activates 48 V	MIC PAD BUTTON 20 dB Reduction Ahead of Input Transformer	LINE BUTTON Switches from MIC/D.I. to LINE input	MIC INPUT IMPEDANCE (LOZ) 1200 Ω or 300 Ω when pressed
6	7	8	9	10
INPUT GAIN SWITCH 5 dB Steps From 30 to 80	HI SHELF at 12kHz Boost or Cut up to 15 dB at 12 kHz	MID BAND BOOST/CUT ±15 dB of Boost or Cut	MID BAND FREQUENCIES Selects frequencies from: 0.36, 0.7, 1.6, 3.2, 4.8 and 7.2 kHz. An OFF position is also provided to remove the band from the signal path	LOW SHELF BOOST/CUT ±15 dB of Boost or Cut
11	12	13	14	15
LOW SHELF FREQUENCIES Selects frequency for the Low Shelf: 35, 60, 110, 220 Hz	HIGH PASS FILTER 18dB/Octave 3-pole Filter at selectable frequencies: 50, 80, 160, and 300 Hz. An OFF position is also provided to remove the filter from the signal path	OUTPUT ATTENUATOR Attenuates from 0 to Infinity	EQL Turns Equalizer ON and OFF	PHASE BUTTON Flips phase 180°
16				
POWER Activates unit				



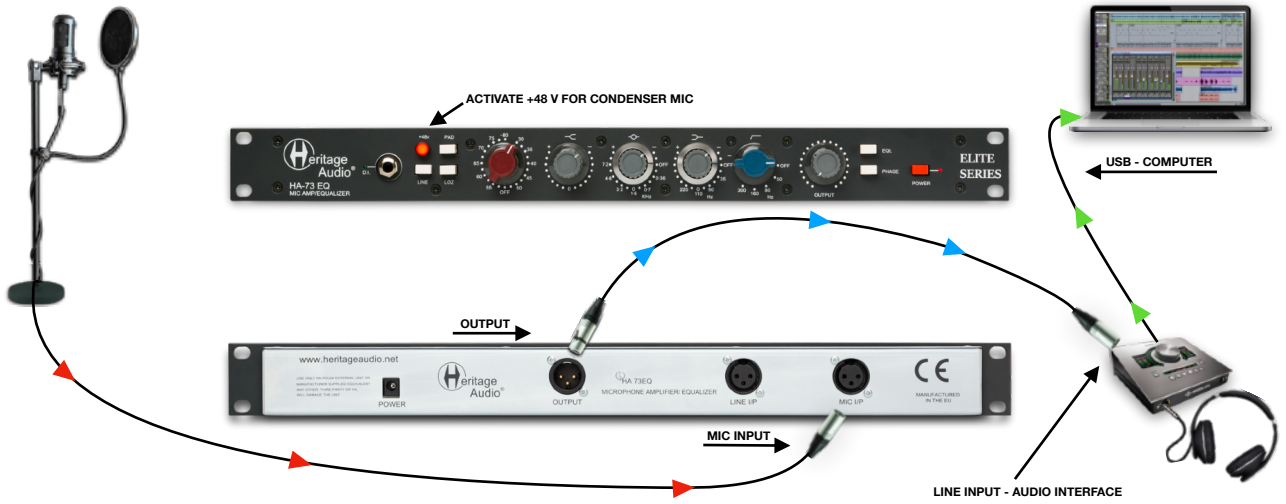
1	2	3	4
POWER INPUT To Be Connected to the HA PSU04 Power Supply	LINE OUTPUT Male XLR Connector	LINE INPUT Female XLR Connector	MIC INPUT Female XLR Connector

All XLRs are: Pin 1: GND Pin 2: Hot Pin 3: Cold	MALE XLR 	FEMALE XLR 	D.I. Jack: Tip: Signal Sleeve: Ground	
	GND Hot (+) Cold (-)	Tip=Signal Sleeve=Ground/Shield		

APPLICATIONS

MIC

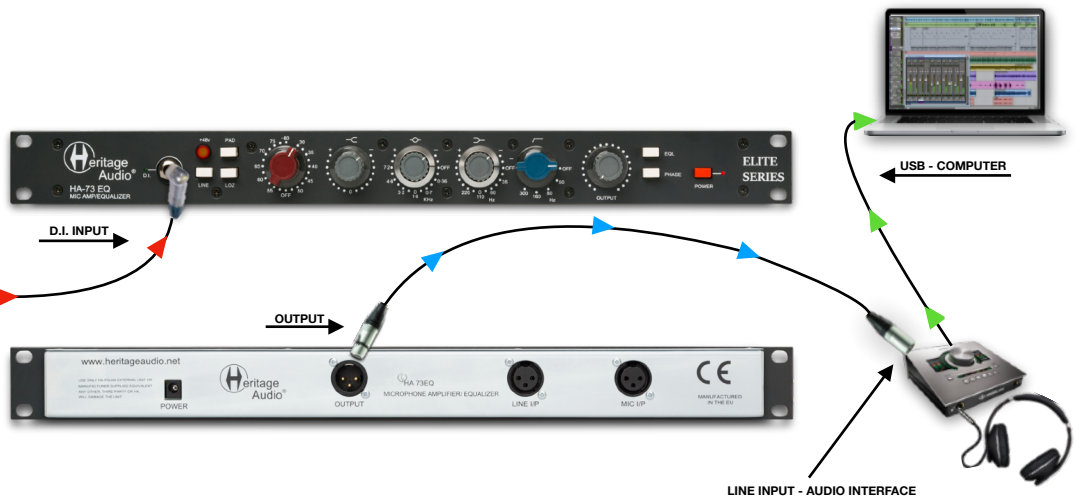
CONDENSER MIC



D.I.

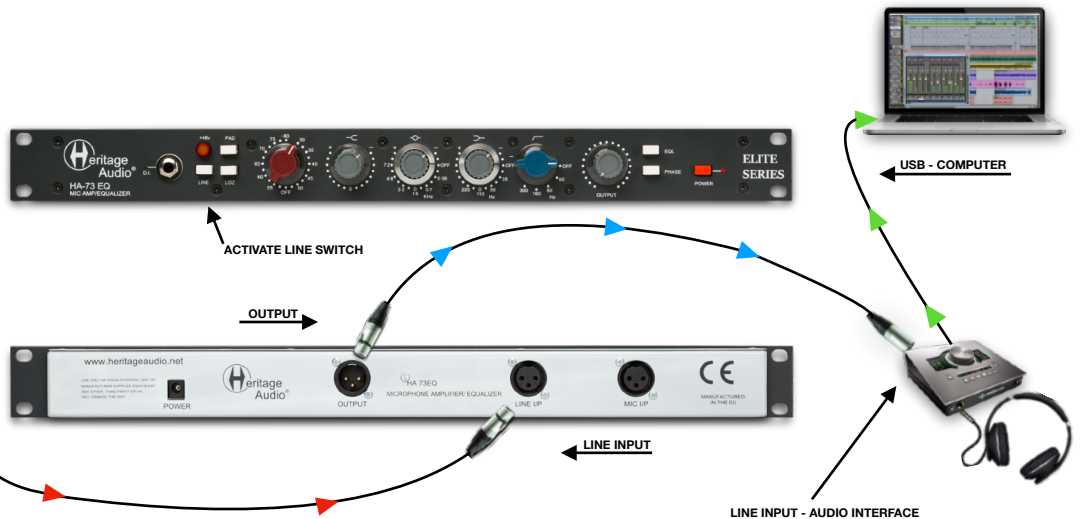


GUITAR FX PEDAL



LINE

LINE OUTPUT - KEYBOARD

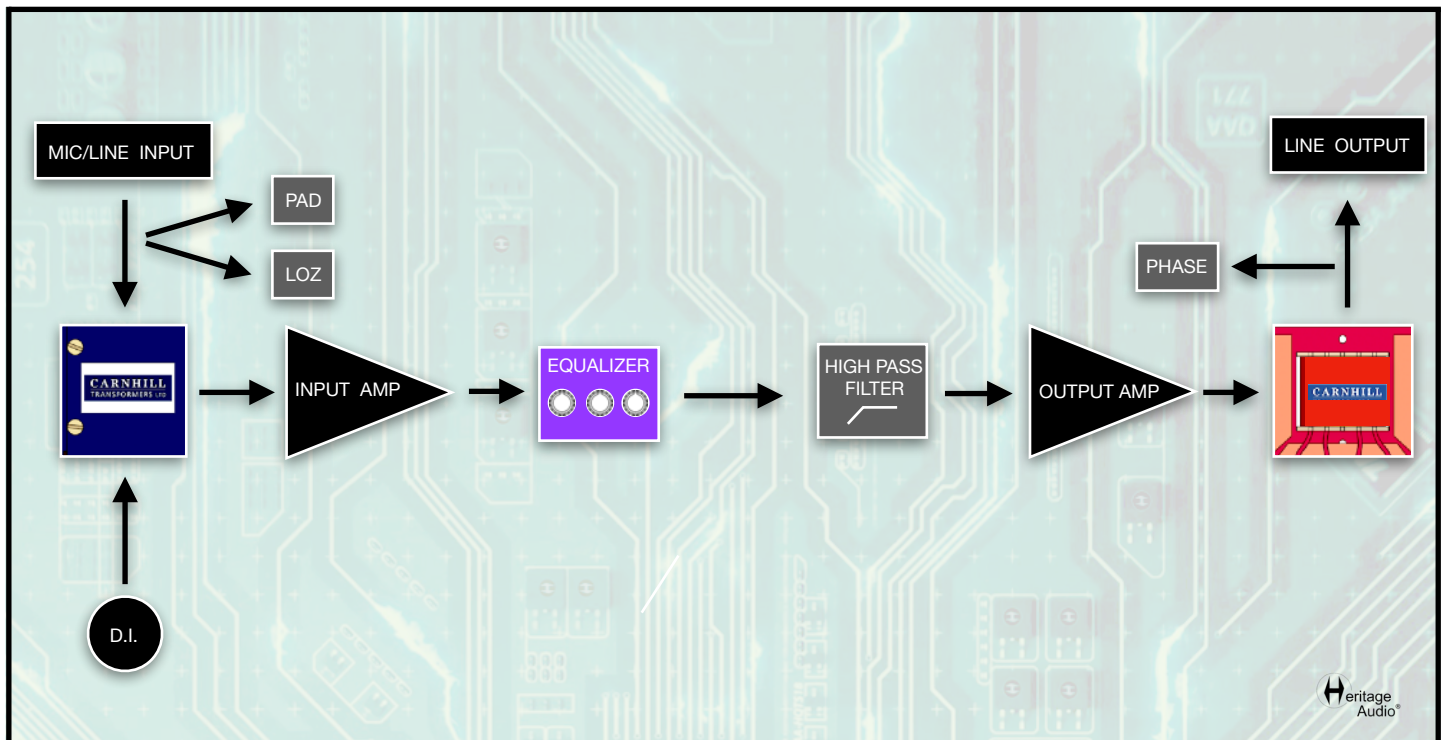


SPECIFICATIONS



- **Microphone input impedance:** High=1200 Ω minimum; Low= 300 Ω minimum. Higher gain positions gradually have greater impedances, optimum for low gain ribbon mics. Input is transformer balanced and floating.
- **Line input impedance:** 10 k Ω bridging, transformer balanced and floating.
- **Output impedance:** Less than 75 Ω , Carnhill transformer balanced and floating, to drive a load of 600 Ω (Factory terminated).
- **D.I. input impedance:** Greater than 2 M Ω , unbalanced.
- **Maximum output:** Greater than +26,5 dBu into 600 Ω (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.
- **Output stage noise:** Less than -125 dBu.
- **Power consumption:** Less than 260 mA @48 V DC.
- **Dimensions (W x H x L):** 482 mm x 44 mm (1 Rack unit) x 184 mm.

SIGNAL FLOW



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 20 dB ahead of the input transformer.
Condenser microphones don't seem to work with HA73EQ.	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.
No matter how I adjust the EQ there doesn't seem to be any tonal change.	Make sure you have activated the EQ with its corresponding button.

* For any further doubts or questions please get in contact with us at: support@heritageaudio.com

WARRANTY STATEMENT

LIMITED 2 YEAR WARRANTY

Heritage Audio HA73EQ 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

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



Session / Title: _____ Track: _____ Connected Equipment: _____

Date: _____ Instrument: _____ Notes: _____
 Switch ON
 Switch OFF



Session / Title: _____ Track: _____ Connected Equipment: _____

Date: _____ Instrument: _____ Notes: _____
 Switch ON
 Switch OFF



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