



HENDY AMPS



MICHELANGELO

Stereo, All Tube EQ

Operating Instructions

Contact Info:

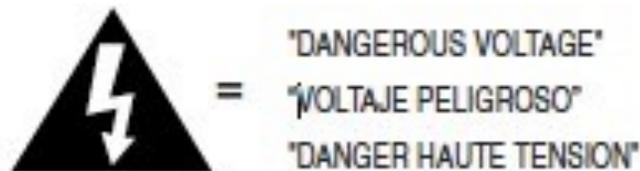
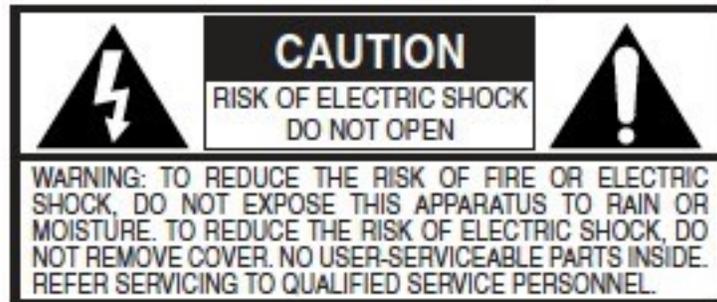
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Limited 2 Year Warranty

So you purchased a Hendyamps product - Good choice! Well it is going to be covered for two years, meaning if there is a defective part, or parts, Hendyamps will replace it/them for free.*
Just ship it to us and we will have it running again ASAP.*

Now, if you, someone else, Mother Nature, or even God, damages the gear, intentionally or not, Hendyamps will not be bound by this warranty to fix your gear for free.

*Tubes are not covered by this two year warranty.

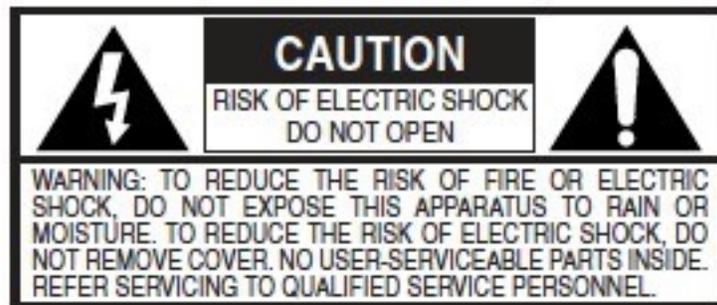
Tubes are fickle things and really can be a huge pain...its just too bad they sound so good.

*Yeah, you are going to need to cover shipping - Kind of sucks but that is pretty standard these days

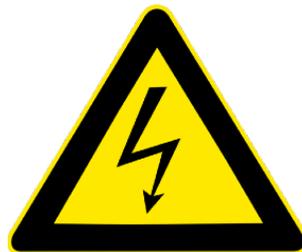
Considerations When Mounting Hendyamps Studio Gear

Hendyamps studio gear is intended to be racked in a standard 19" rack, but please keep in mind that everything Hendyamps builds contains a varying amount of vacuum tubes, and those things get hot! It is recommended that 1u of space be placed above each of your Hendyamps studio gear in order to provide some space for the heat to dissipate. If your situation is such that this luxury is not allowed, then please make sure there is adequate airflow behind the unit, and even adding some sort of quiet fan would be best.

Keeping your Hendyamps studio gear nice and cool will prolong the life of your equipment and probably save you in electricity costs as your AC will possibly be running less. Of course if you are in the middle of winter then you may be tempted to warm your hands up on your Hendyamps gear. Please do NOT do this because the tubes are running on voltages well over 300v! Touching anything inside the unit will probably end with you on the news...in a bad way.



"DANGEROUS VOLTAGE"
= "VOLTAJE PELIGROSO"
"DANGER HAUTE TENSION"



The Hendyamps Experience

Hendyamps is simply about one thing - Tone! Now, as it turns out, that includes a whole host of other things, namely: Quality, ingenuity, creativity, and versatility. Hendyamps was founded as a reaction to the fact that much of the tube gear on the market today fails to satisfy the needs of true discerning musicians and recording engineers.

What sets this gear apart from what is currently on the market? The fact that each piece of gear is hand-built, individually tested, no corners are cut, and nearly everything is customizable. From the beginning, you will be in contact with Chris himself, answering all of your questions promptly, and even emailing or texting you pictures of your gear as it is being assembled. After your purchase is complete, you can rest easy, for Hendyamps is committed to making sure all of its clients are 100% satisfied customers for life. You will not find this level of service and purchasing experience anywhere else!

“As someone who has grown up around music, playing multiple instruments in various bands, running live sound, and being a professional recording engineer, I have an ear that is especially tuned for the needs of a discerning musician as well as the precision needed for the studio.”

- Chris Henderson (Founder and owner of Hendyamps)

The Hendyamps Michelangelo

The most common statement from mixing and mastering engineers who use the Michelangelo?
*"I literally feel like I'm cheating when I use this thing,
because it should not be this easy to get my mixes sounding good!"*

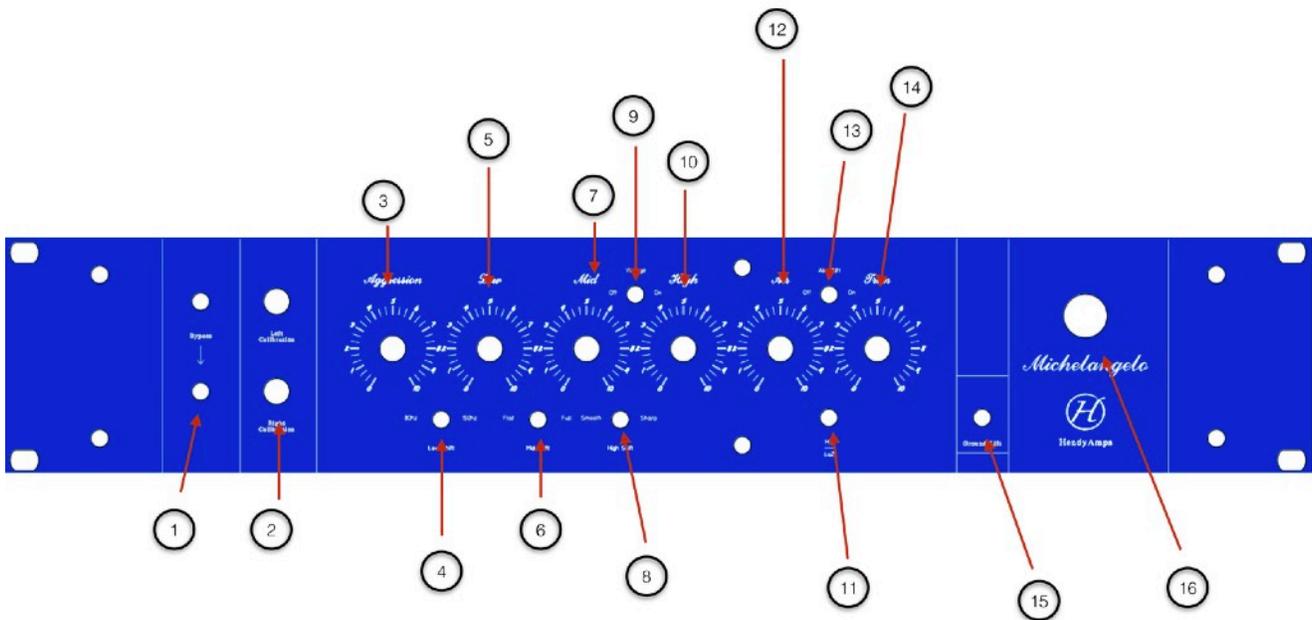
Housed in a 2U rack unit, the Michelangelo is an all tube, stereo EQ that is completely focused on sonic beauty! This EQ is certainly not aimed at precisely targeting certain frequencies, for it is intended to be a broad strokes EQ that also acts as a harmonics generator. This one of a kind EQ is at home during any phase of the music production process (tracking, mixing, or mastering), for the overall sonic signature it leaves, coupled with its complete ease of use, is rivaled by none!

The Michelangelo is a discrete, Class A, all tube, full stereo unit, with Jensen transformers in and out.

FEATURES:

- The BYPASS switches allow the user to completely disengage the Michelangelo at any time in order to properly A/B a mix (true bypass).
- The TRIM control allows the user to precisely match the volume coming from the Michelangelo to any desired level, without altering the tone of the unit.
- Left and Right CALIBRATION is used to gain match the Left and Right signals, accounting for any volume discrepancies encountered. Interestingly enough, these calibration controls can also be used to alter the tonal response of the Michelangelo if so desired. For example, it is possible to bring the Calibration volumes up and the Trim down, resulting in the Michelangelo driving the signal harder than normal, increasing harmonic content.
- The AGGRESSION control alters the drive in the circuit, allowing you to push the tubes for extra saturation.
- The LOW, MID, and HIGH controls manipulate the three EQ bands, but in a way that adds more dynamic, harmonic content the higher the EQ is set. Take note that the Mid control covers a massive amount of territory while the Low and High controls are narrower by comparison.
- The AIR control boosts the ultra high frequencies and is typically a favorite control in this unit.
- LOW SHIFT alters the response of the Low control, moving the low shelf from 150hz to 80hz
- MID SHIFT alters the response of the Low and Mid controls, essentially assigning the low mids to either control.
- HIGH SHIFT changes the curve of the High shelf.

- AIR SHIFT changes the curve of the Air shelf.
- The VINTAGE switch toggles between a “modern” mode (think more hifi and quick), and a “vintage” mode (darker, older sounding).



Front Panel Controls

1. The Bypass switches are true bypass, meaning, they literally remove the Michelangelo from the signal chain completely.
2. The Calibration controls allow you to fine tune the left and right channels in order to achieve a proper balance in the stereo image. As well, the Calibration controls function as gain controls, and as such, can be driven hard for a more aggressive tone.*
3. The Aggression control allows the entire EQ circuit to change its overall feel and sound. At 0% you will hear the Michelangelo at it's most neutral and 100% is the most aggressive.
4. The Low Shift switch allows you to change the rolloff of the Low shelf control.
5. The Low control is actually a shelf control controlling the low frequencies.
6. The Mid Shift switch alters the response of the Mid control, affecting primarily the low mids range of the signal.
7. The Mid control covers the range between the Low and High controls.
8. The High Shift moves the high shelf by roughly 1k.
9. Vintage mode offers a darker, more raw tone that can be very useful when full analog tone is desired.**
10. The High control is a shelf control controlling the higher frequencies.
11. This switch allows you to switch the output impedance of the Michelangelo from high to Low. You will notice that switching between LoZ and HiZ will alter the overall sound of the EQ and will require a recalibration. HiZ has a very large interaction with other gear following the Michelangelo and thus will sound different in various locations in your signal chain. LoZ will have lower overall color but will interact much less with other gear following the Michelangelo.
12. The Air control is another shelf that controls the ultra-high frequencies, and yes it overlaps the High control on purpose.***
13. Air Shift moves the Air band by roughly 1k
14. The Trim control allows you to set the output volume coming out of the Michelangelo.
15. If you are having a ground loop issue, flip this switch!
16. Press this button to turn on or off the Michelangelo.

**Take note that the Air control is greatly affected by the Calibration controls in that the harder you drive the Calibration, the less db swing you will see from the Air control*

***Do not be afraid to significantly boost the High and Air controls to compensate for the darkening of the signal.*

****Your Michelangelo EQ has been calibrated to give as neutral a tone as possible with your EQ knobs in the noon (50%) position. You will notice that not all of the knobs run the full range from 0-100% - that is perfectly normal (a couple can be a slight bit offset). The Michelangelo was designed to be sonically rich and harmonically complex, and that ended up meaning that not all of the EQ controls lined up perfectly. Rather than altering the circuit to accommodate aesthetics, the decision was made to stick with what sounded best and just calibrate the knobs to be in the correct position.*

Your Michelangelo is calibrated to be sonically neutral with the Aggression control on the 0% position.

Your Michelangelo is calibrated to be sonically neutral with the Trim control on the 100% position.

Your Michelangelo is calibrated to be sonically neutral with the Bass Shift switch in the "150hz" position.

Your Michelangelo is calibrated to be sonically neutral with the Mid Shift switch in the "Full" position.

Your Michelangelo is calibrated to be sonically neutral In LoZ.

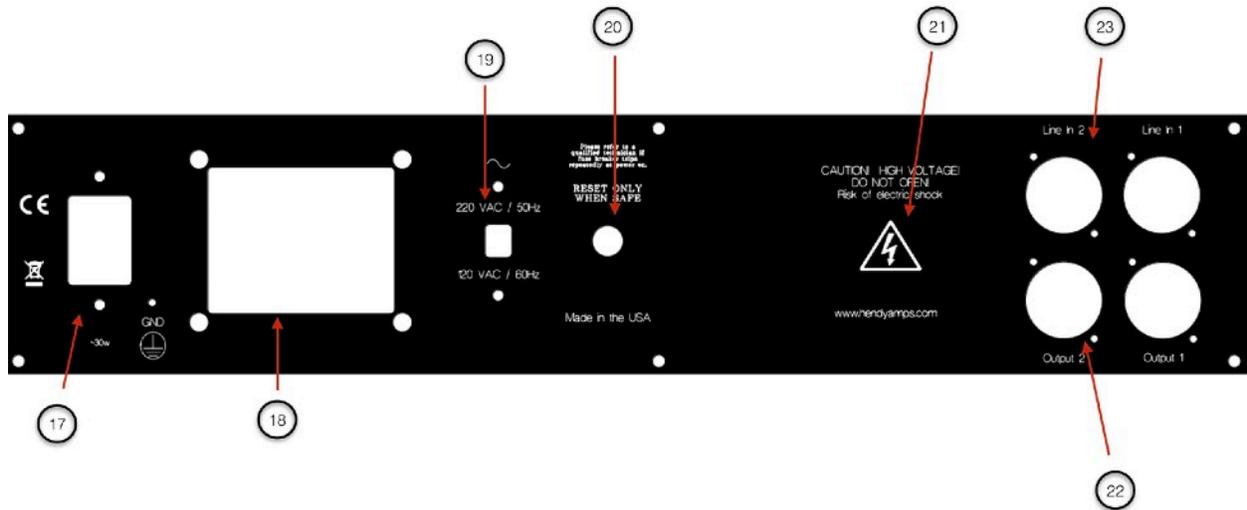
Your Michelangelo is calibrated to be sonically neutral with the High Shift switch in the "Smooth" position.

Your Michelangelo is calibrated to be sonically neutral with the Air Shift switch in the "On" position.

Your Michelangelo is calibrated to be sonically neutral with the Vintage switch in the "Off" position.

You will notice that switching between LoZ and HiZ will alter the overall sound of the EQ and will require a recalibration. HiZ has a very large interaction with other gear following the Michelangelo and thus will sound different in various locations in your signal chain. LoZ will have lower overall color but will interact much less with other gear following the Michelangelo.

Note that the Michelangelo will be more transparent with a lower signal feeding it and more colored with a hotter signal feeding it.



Rear Panel Controls

17. This is your AC Mains power inlet.
18. Here at Hendyamps, the motto is: "If something is worth doing, it is worth overdoing". Well, that motto is seen in the power transformer we choose for our units. Our power transformers are all made in America, paper wound, and able to power up a full vintage guitar amplifier if desired, meaning this transformer will still be going strong for the next... well...century.
19. This is how you switch the mains voltage from 110v to 220v (or whatever your standard is)
20. The mains fuse is rated at .6A, and yes, it is a circuit breaker
21. Caution!!! The voltages present inside of your unit are as high as 450v! If you open this unit up and touch the wrong part there is a very strong probability that you will die!!
22. Line level balanced output - XLR (Pin 1 = Ground, Pin 2 = Hot, Pin 3 = Cold)
23. Line level balanced input - XLR (Pin 1 = Ground, Pin 2 = Hot, Pin 3 = Cold)

Specifications

Circuit designed and built by Hendyamps LLC

Stereo Controls

Tubes: Three 12ax7's (ECC83)

Transformers: Jensen In and Out

Input Load Impedance: 10K Ohms

Output Impedance: LoZ or HiZ, Transformer Balanced

Maximum Output Level: +23 dBu

Frequency Response: 10hz-20Khz +/- 1dB

Signal to Noise: 94-103db, depending on output impedance setting

Power: 115v/220v

Dimensions: 2u

3.5" (H) x 19" (W) x 10" (D)

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