

GAMECHANGER | AUDIO

THANK YOU FOR PURCHASING THE PLASMA PEDAL - the world's first high-voltage distortion unit!

We congratulate you on your excellent taste and we would like to thank you from the bottom of our hearts for making this pedal possible through crowdfunding!
The PLASMA Pedal is only our second product (check out PLUS Pedal on our website) and we intend to keep bringing original, innovative tools to the music industry for a long time to come!

Enjoy your brand new PLASMA Pedal and:

Keep on Rockin' in the Gluten-free world!

HOW THE PLASMA PEDAL WORKS

Instead of using LED circuits, transistors or traditional vacuum tubes, the PLASMA Pedal creates distortion by converting your instrument's signal into a series of impulses (using Pulse-Amplitude Modulation) that are sent to a step-up fly-back transformer. The Transformer amplifies these bursts to thousands of Volts and the current is discharged in special gas-filled tube.

The gas tube is essentially a pair of electrodes surrounded by a gas called Xenon. Xenon is one of the so-called "noble gasses" and when it comes in contact with electrical current, a process called ionization occurs. Ionized gas becomes partially conductive and essentially it "helps" the current to travel between the electrodes. As a byproduct of ionization, the gas converts a tiny part of the electrical energy into visible light. In the case of Xenon - the light is blue, however other noble gasses would shine in different colors, such as violet (Argon), green (Krypton), red (Neon), etc.

The discharge produced by the transformer creates strong electro-magnetic waves that can be picked up with an special antenna or pick-up, de-modulated and re-formed back into an audio signal. This is how PLASMA Pedal is able to convert instrument level signal into thousands of volts, and then turn these high bursts of energy back into audio signal.

Besides producing a blue "lightning bolt" - the PLASMA Pedal generates a unique kind of distortion with many distinctive qualities:

- UNUSUAL HARMONIC SATURATION

When audio signal is driven by a step-up transformer, all the harmonics and overtones that are present in the original signal become very pronounced. There is also a certain amount of "noise pollution" that is created by the transformer and gas-tube system - it could be described as "crackle" or "buzz", and it adds an electric quality to the sound.

- NOISE-GATING PROPERTIES

By maxing out the BLEND knob you can achieve a fully wet signal, produced only by the transformer. This means that as soon as you stop playing, the electrical discharge within the gas-filled tube is interrupted, and the pedal will not produce any output signal at all. This feature allows you to achieve extreme contrasts between individual notes, by eliminating all of the in-between noises created by the intsrument's pick-ups or by humming strings.

The Gating effect can also be used to significantly alter how the instrument responds to various picking and strumming techniques & how the instrument sustains notes.

- EXTREMELY WIDE EQ

As mentioned above - the PLASMA Pedal loses the original DRY input and creates a new audio signal from fluctuations in the electromagnetic field surrounding the transformer and the gas-discharge tube. This allows to bring out an extremely wide range of frequencies that are often beyond the instrument's capabilities.



THE PLASMA Pedal is a HIGH-VOLTAGE electric device!
This means you SHOULD NEVER under any circumstances attempt to disassemble the pedal or to remove any of the pedal's parts. Do not remove any screws from the pedal's back panel. Never attempt to insert foreign objects (such as guitar picks, strings, sharp objects) between the seams in the pedal's casing.

KNOBS AND CONTROLS



Lets you adjust the amount of current sent to the xenon tube - that way increasing or decreasing the threshold necessary for achieving a discharge in the tube.

Optimal setting that will give you a reasonable amount of sustain, while still preserving a very pronounced noise-gating effect.



Only loud, powerful signals will pass through the xenon tube - strong gating effect, a lot of breakup and almost no sustain.



More like a cranked fuzz with lots of sustain and lots of feedback.
However, even when Voltage is cranked, you can use your instrument's volume knob or palm-muting techniques to achieve noticeable gating.



Standard Master Volume control - set to unity volume when turned to the 12 o'clock position, but may vary depending on the EQ knob Settings.



Balance between the WET & DRY signals.
When turned all the way up, you will only hear the sounds produced by the PLASMA Pedal's xenon tube.
When all the way down - you will just hear the clean signal from your instrument.

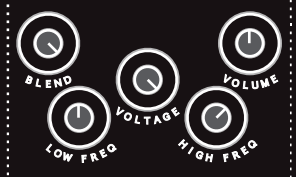


EQ section that allows you to shape and mold your tone - these controls are very wide and can be used to achieve extreme settings.



Adjust whether the DRY Signal that you dial in with the BLEND knob is affected by the PLASMA Pedal's EQ section (LOW and HIGH FREQ. knobs).

SUGGESTED SETTINGS



ELECTRIC GUITAR + CLEAN AMP

WORK WITH YOUR GUITAR'S VOLUME KNOB TO GET GATING

GREAT FOR SOLOS AND RIFFS

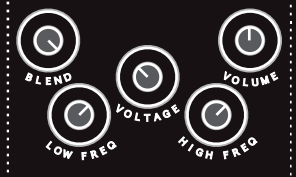
SUSTAIN FOR DAYS



ELECTRIC GUITAR + DIRTY AMP

CLEAN EQ SWITCHED ON

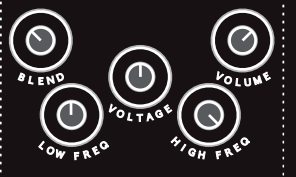
PLASMA PEDAL ADDS A CRACKLING SOUND DURING THE NOTE'S ATTACK



ALMOST NO SUSTAIN AND LOTS OF GATING

WORKS GREAT WITH PERCUSSIVE SOUNDS

CREATES A VERY PRONOUNCED "STACCATO" EFFECT



DIRTY OR CLEAN AMP

CLEAN EQ SWITCHED OFF

PLASMA PEDAL WILL ADD A LOT OF HIGH-PITCHED BUZZ TO YOUR TONE, SOUNDS SIMILAR TO A FUZZ-OCTAVER

Although PLASMA Pedal is built primarily with Electric guitarists in mind, it has also proven to sound fantastic with Bass guitars, Synthesizers, Analog electric pianos, Drum machines and Sequencers.
When playing rhythmical patterns or percussive sounds, we suggest you turn the BLEND knob all the way up and find a VOLTAGE setting that produces the most gating, and then gradually adjust the BLEND knob for balance.

TECHNICAL SPECIFICATIONS

Input Type	1/4" Unbalanced TS
Input Impedance	1MΩ
Max Input Level	7Vpp (+10dBu)
Output Type	1/4" Unbalanced TS
Output Impedance	100Ω
Max Output Level	7Vpp (+10dBu)
Power Connector	Center negative 2.1 x 5.5 mm barrel plug (the standard 9V)
Frequency Response	20Hz to 22kHz
EQ LOW FRQ Boost/Cut	±9dB, 600Hz corner freq.
EQ HI FREQ Boost/Cut	±10dB, 1.5kHz corner freq.
Indicator	Check indicator white LED
Connectors	IN, OUT, DC input
Power Requirements	300mA, 9VDC
Peak Power Consumption	2.7 W
Mean Power Consumption	1 W
Power Consumption during Standby	0.025 W
Dimensions (l*w*h)	148mm*96mm*70mm
Weight	840 g / 1.8 lbs

WARRANTY & RETURNS

You have a 30 day return period when you may return the product and receive a full refund. You will only be responsible for return shipping charges.
Each PLASMA Pedal manufactured by Gamechanger Audio is warranted to be free from defects in materials and workmanship for one year from the date of shipping or longer if required by the relevant legislation.
This warranty shall not apply to any unit which in the opinion of the manufacturer has been used improperly or has been mechanically or otherwise damaged by accident, misuse or negligence or has been altered or repaired in such a way to impair performance, nor shall it apply to cosmetic defects (considered normal wear and tear)
Other parts, such as knobs, rubbers, cable connectors, are non replaceable. The manufacturer reserves the right to make changes in design or construction of this equipment without obligation to install similar changes in equipment already sold.

OTHER EFFECTS

We encourage you to experiment using PLASMA Pedal together with tremolo and delay based effects.

By putting a hard tremolo in front of the PLASMA Pedal you will achieve a satisfying flicker that sounds fantastic. This also goes for arpeggiators and other rhythm-based effects.

By setting up a delay unit before the PLASMA Pedal, you will get a wide variety of break-up sounds, as the delay's trails begin to get softer.

TIPS

There is a lot of room for experimentation, when it comes to combining PLASMA Pedal with other drive and distortion effects -
When PLASMA Pedal is placed before other drive and distortion pedals the noise-gating effect is transferred to the rest of the signal-chain.
However, when other drive pedals are placed before PLASMA pedal, you can get different types of distortion.

PLASMA Pedal sounds great without reverb. That way the noise-gating effect is very pronounced and you get total silences between notes.

PLASMA Pedal is also a great Studio tool that can be used to re-amp guitar and bass parts, put some crackle and filth on vocals, harmonicas or other melodic instruments. It can also be used to crush a snare or kick drum, or even a whole beat. For studio use - please make sure that the input signal is INSTRUMENT LEVEL.

WARNING!

The PLASMA Pedal DOES NOT support 9V batteries, and it should always be powered with a standard 9V DC guitar pedal power supply with a center negative connector (OneSpot, Boss, Snark, etc.).

NEVER operate the PLASMA Pedal near water or on outdoor stages in rainy conditions. DO NOT play your PLASMA Pedal while taking a bath or in the swimming pool!

The XENON Tube contained within the PLASMA Pedal will run for an ESTIMATED 10 000 hours - In case of a broken tube - please contact info@gamechangeraudio.com and we will arrange to have your PLASMA Pedal serviced.

Gamechanger Audio will not be liable for any injury, material damage, or any other loss, caused by the incorrect operation of PLASMA Pedal, or breach of the warnings and instructions laid out in this manual.

FOR THE US:
This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. this equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with these instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- connect equipment into an outlet or a circuit different from that to which the receiver is connected.
- consult the dealer or an experienced radio / TV technician for help.

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
Unauthorized changes or modification to the system can void the users Authority to operate this equipment. this equipment require shielded interface cables in order to meet FCC Class B limit.

FOR EUROPE:
This product complies with the requirements of Electromagnetic Compatibility Directive 2014 / 30 / EU.

FOR CANADA:
NOTICE: This class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations
AVIS: cet appareil numérique de la classe B respecte tout les exigences du règlement sur le matériel brouilleur du Canada.

RoHS

No user servicable parts inside

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