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 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.

**NOISE-GATING PROPERTIES**

By turning 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 instrument’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.

**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 ‘crackles’ or ‘buzz’, and it adds an electric quality to the sound.

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

- **NOISE-GATING PROPERTIES**
  - **By mixing 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 instrument’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.

- **KNOBS AND CONTROLS**
  - **Voltage setting that will give you a reasonable amount of sustain, while still preserving a very pronounced noise-gating effect.** Just like a cranked fuzz with lots of sustain and loads of feedback.

  **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).**

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.
### SUGGESTED SETTINGS

- **Electric Guitar + Clean Amp:** Work with your guitar’s volume knob to get ganging.
- **Electric Guitar + Dirty Amp:** Plasma EQ switched on. Plasma pedal adds a cracking sound during the note attack.
- **Almost No Sustain and Lots of Gating:** Works great with percussive sounds.
- **Clean EQ Switched Off:** Plasma pedal will add a lot of high-pitched buzz to your tone, sounds similar to a fuzz-octave.

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 rhythmic patterns or percussive sounds, we suggest you turn the BLEND knob all the way up and find a VOLUME 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:** 5Vp (±10dBu)
- **Output Type:** 1/4” Unbalanced TS
- **Output Impedance:** 1000Ω
- **Max Output Level:** 5Vp (±10dBu)
- **Power Connector:** Center negative 2.1 x 5.5 mm barrel plug (the standard 9V)
- **Frequency Response:** 20Hz to 22kHz
- **EQ LOW FREQUENCY Boost/Cut:** ±16dB, 60Hz corner freq.
- **EQ HI FREQUENCY Boost/Cut:** ±16dB, 1kHz 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 x W x H):** 168mm x 96mm x 70mm
- **Weight:** 840 g / 1.8 lbs

### 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 legs 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 crankle and filth on vocals, harmonics or other melodic instruments. It can also be used to create a snare or kick drum, or even a whole beat. For live 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 (Onepot, 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.

### 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 in which 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, knobs, cables, 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.