

# DEPUTY DISTORTION

**Owner's Manual**

**IMPACT DSP**

VST / AU / AAX / CLAP Plugin

*Version 1.0.0*

# Introduction

Welcome to **Deputy Distortion**, a drive/distortion plugin based on a legendary 1980s Marshall tube circuit, neural-modeled to perfection so it sounds and feels like real analog hardware.

Its brash, punchy in-your-face roar is perfect for smashing drums, heavy guitar, and thick synths — from pleasant crunch to extreme circuit-blown aggression. You'll find that unlike clean digital effects, the analog-based tone shaping you can get with **Deputy Distortion** is interactive, volatile, and dynamic. We've even built a new **Sizzle** knob so you can easily add edge and bite.

**Deputy Distortion** balances tube growl and warm breakup with a touch of compression, designed to be suitable for both studio and live performance use.

We hope you enjoy **Deputy Distortion**!

— *The Team at Impact Soundworks*

# Installation

## Online Activation (Recommended)

1. Install the Pulse application if you don't already have it. ***Pulse is a cross-platform desktop app that lets you download and install your libraries with blazing speed!*** You'll need to create an account here, but once you do, you can access your purchases from any developers using Pulse, any time, from any computer:

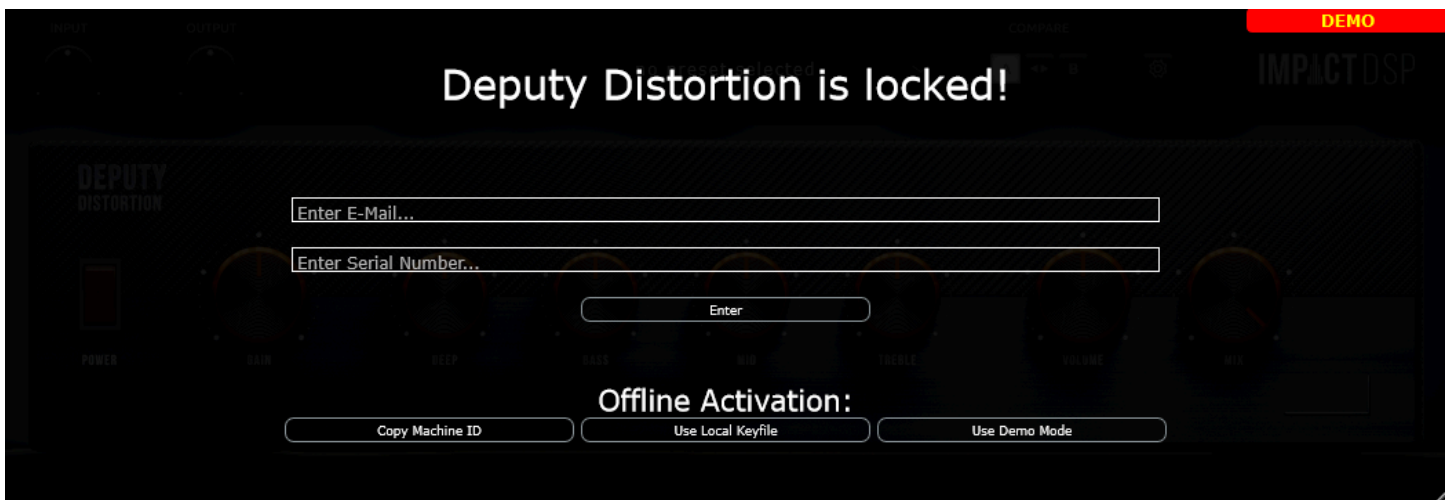
<https://pulsedownloader.com/>

2. Once Pulse is installed, open it and enter your **Deputy Distortion** product code. The plug-in will then be downloaded and the installer will automatically run; follow the installer instructions to finish.
3. When the **Deputy Distortion** plug-in is first opened in your DAW, you will be prompted for an email and serial key (*this is the same as the Pulse Downloader product code*). You must use the email address you used when ordering the plug-in on the Impact Soundworks website.

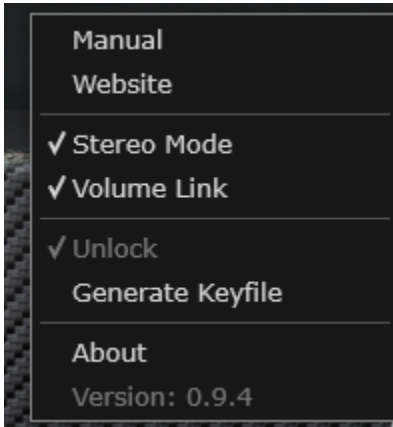
## Offline Activation

If you would prefer to not connect your studio computer to the internet, it is still possible to activate and use **Deputy Distortion**. However, you will still need at least one internet-connected computer to proceed. For these instructions, we'll use the terms **Offline PC** and **Online PC**:

1. Follow the **Online Installation** & activation steps, as outlined above, on your **Online PC**.
2. Copy the **Deputy Distortion** plug-in installer file to your **Offline PC**, and run the installation on your **Offline PC**.
3. Open the **Deputy Distortion** on your **Offline PC**. Select the **Copy Machine ID** button, which will copy the **Offline PC's** unique machine ID to the clipboard. Paste this ID in a text file.



4. On your **Online PC**, open the plug-in and go to the settings menu. Select **Generate Keyfile**. You will be prompted to enter a machine ID; input the ID generated from the previous step.



5. Transfer the generated Keyfile to your **Offline PC**.
6. On your **Offline PC**, in the **Deputy Distortion** plug-in, select **Use Local Keyfile** and select the Keyfile you generated in the previous step. **That's it!**

# Overview

**Deputy Distortion** is built around a bespoke neural model of the **Marshall Guv'Nor** pedal, a combination overdrive/distortion unit originally released in 1988 essentially packing a full Marshall tube amp circuit into a single box. This amp is beloved as a processor for guitar, bass, and synths alike.

Our model includes the Gain, Deep, Bass, Mid, Treble, and Volume controls seen on the UI. As a result, *none* of these knobs are simple isolated processes like EQ boosts and cuts. Rather, they behave just like the actual analog hardware - a "network" where each knob is connected.


In other words, the **sound** of Deputy Distortion is more than the sum of its parts. Boosting the **Bass** and **Volume** knobs while the **Gain knob** is low will sound different than if the **Gain** knob is high. Also, since this is a *non-linear effect*, it reacts quite differently to different audio signal levels and frequencies.

We then built further on the model with some additional controls such as the **Dynamics** envelope follower and **Sizzle** harmonic saturator, which we'll describe below.

## Navigating Deputy Distortion



First, let us go over the *top row* of the plugin.

<b>Input</b>	Sets the input sensitivity, <i>i.e.</i> , the volume of the signal before it is affected by anything else in the signal chain.
<b>Input Meter</b>	Displays the level of the input signal.
<b>Output</b>	Sets the volume of the signal after the signal chain ( <i>i.e.</i> , the final output of the plugin).
<b>Output Meter</b>	Displays the level of the master output signal.
<b>Mix</b>	Blends between the dry and wet (processed) signal. Note that both signals are affected by the Input and Output knobs.
<b>Preset Selector</b>	Shows a list of presets. If you save your own presets, they will show up in the 'User' sub-folder. <b>Save preset</b> overwrites the current preset. <b>Save preset as...</b> saves a new preset.
<b>Compare A B</b>	Switches between two states of the plugin ( <b>A</b> and <b>B</b> ), each with their own separate knob settings. The button between the two states (  ) <i>copies the settings of the currently selected state to the other.</i>
<b>Settings</b>	From here, you can access the product manual (this one!), go to the Impact DSP landing page on our site, switch between <b>Mono Mode</b> and <b>Stereo Mode</b> , and verify the current plugin version.

Now let us take a look at the *bottom row*:



- Power Button** Switches the plugin on or off (note that the default state of the plugin is *off*).
- Gain** Increases the drive into the distortion. This knob has a characteristic effect on the sound, based on the circuit modeling.
- Deep** Controls low-end cabinet-style resonance and structural “girth”. Operates mostly independently from the Bass/Mid/Treble tone stack.
- Bass** Adds foundational low-frequency weight and warm, organic thickness. Turning this up can soften high-frequency response.
- Mid** Adds a classic, “throaty” and aggressive midrange while reducing it can leave a distinctive notch.
- Treble** Adds mid-high frequency sharpness without being overly fizzy or harsh.
- Sizzle** Mixes in a non-linear waveshaping distortion to frequencies above 1.5khz (split via a 24db/oct crossover), saturating the signal and adding new harmonics. It also adds a high shelf boost to these frequencies. The result is capable of noticeably brightening the sound in a different way than pure EQ.
- Volume** Boosts the volume of the signal. *This was modeled from the actual circuit, meaning it has a more characteristic effect on the sound than a normal boost.*
- Dynamics** When increased, the post-processed **Wet** signal will begin tracking the moment-to-moment dynamics of the **Dry** signal. At 100%, the **Wet** volume will fluctuate considerably in order to match the peaks and valleys of the Dry input. Think of this like a sidechain. The speed switch determines how quickly this envelope follower reacts to changes. This **won't** be particularly audible on mostly continuous, sustained material. However, because **Deputy Distortion** has a natural compressing effect on the input, this knob can be useful for maintaining transients and dynamics (such as with drums) while keeping the **tone** of the distortion intact.

# Settings

In the **Settings** menu (gear icon) there are two toggleable options:

**Stereo Mode:** Enabled by default. When enabled, each channel of a stereo input is processed independently. If disabled, a stereo signal will be processed as a mono sum (generally reducing the perceived stereo width.)

**Volume Link:** When enabled, adjusting the **Volume** knob will inversely move the **Output** knob. Because the **Volume** knob is part of the neural model, it has an impact on the signal beyond just a simple trim. With this option enabled, you can explore the tonal range of the **Volume** knob without huge swings in the overall output volume.

# Credits & Acknowledgements

**Executive Producer:** Andrew Aversa

**Producer:** Shane Roberts

**Lead Programmer:** Nolan Vernon

**Core DSP Modeling:** Steve Atkinson

**UI Design & Artwork:** Paulo Nunes

**Marketing:** Lauren Liebowitz, Rachel Steele

**User Manual:** Fredrik Häthén, Shane Roberts

**Presets:** Nolan Vernon, Andrew Aversa

*...And a special thanks to our Beta Team!*

# Troubleshooting

Having trouble with **Deputy Distortion**? Use it in a project you want to tell us about? Drop us a line via our [Contact](#) page (but be sure to [read the FAQ](#) first!)

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