



# Ampire High Density Pack

## Quick Start Guide

### Ampire High Density Pack

**Thank you** for purchasing the High Density Pack for PreSonus Ampire!

### Overview

The Ampire High Density Pack is an Add-on for Ampire, PreSonus' acclaimed State Space Modeled Amp and Effects Suite. This pack includes a special collection of three iconic amps and their respective, impulse response modeled cabinets—as well as six unique stomp box effects to complement the core library of amps, cabinets and effects included with Ampire. Ampire High Density Pack is the perfect Add-on not only for metal guitar players, but any musician looking for high-gain sounds and exotic effects.

This Add-on is compatible with the third-generation of Ampire included in Studio One 5.1.1 and later, as well as our VST/AU/AAX version of Ampire available at [shop.presonus.com](http://shop.presonus.com). As a bonus feature, the Impact XT Metal Kit (originally available as part of the Ampire XT Metal Pack) will be available as a free download on PreSonus Exchange!

**Features at a glance:**

- The first Empire Add-on based on State Space Modeling technology
- Meticulously crafted models of legendary metal amps and their respective cabinets
- Six unique FX pedals (also available in the Pedalboard plug-in)
- Compatible with all major DAWs (64-bit VST3/AU/AAX; PreSonus Hub 1.2 or later)
- Compatible with Studio One 5.1.1 or later (Prime\*, Artist\* and Professional)
- Included in PreSonus Sphere
- FREE: Metal Drum Kit for Impact XT available on PreSonus Exchange

**Getting Started**

After registering and downloading Empire High Density Pack from your [my.presonus.com](https://my.presonus.com) account, drag and drop the .install file into Studio One to begin the installation and activation process. You will be asked to install the Extension and restart Studio One. At launch, an activation window will pop up—simply follow the on-screen instructions. If you received this product with a PreSonus Sphere membership, activation is automatic.

Once installed, the additional amps, cabinets and effects will be available in the Browser inside Empire. A dedicated set of Empire Presets is available inside a new folder called “Empire High Density.”

Using Empire High Density Pack in another DAW requires the PreSonus Empire plug-in, which is also available on [shop.presonus.com](https://shop.presonus.com). If you purchased Empire High Density Pack for use in other hosts, please download and install the latest version of PreSonus Hub, which is available in MyPreSonus. Click the download link on the Empire High Density Pack product page. After downloading Empire High Density Pack from your my.presonus.com account, drag and drop the .install file into PreSonus Hub to begin the installation and activation process.

**What is State Space Modeling?**

State Space Modeling technology is a sophisticated, state-of-the-art physical modeling technique. It goes back to the system topology of the original hardware (namely the complete schematic) and describes the circuit as a set of discretized differential equations. The involved nonlinear circuit elements are modeled meticulously on the component level to include all those “dirt effects” that make the analog original sound so good: bias shifts, time dependencies, saturations. The resulting DSP code is then optimized for processing speed. This progressive technique enables us to create perfect virtual models of even complex analog audio hardware.

At its highest level, we’re not only modeling circuits at the component level, we can even model non-linearity within these components, which results in even more realistic digital models. This is particularly important for components such as transformers and vacuum tubes. You notice the difference if you compare a state-space-modeled amp in Empire with similar emulation in other virtual guitar amps requiring separate models for “clean,” “crunch,” or “high gain.”

## Amps, Cabinets and Effects in detail

### Metal Machine+



The backbone of contemporary metal tone, this legendary amp has defined the sound of modern metal with 120 watts of raw power across two channels. Each channel offers a 3-band EQ, plus independent resonance and presence controls. The rhythm channel offers an additional “Crunch” mode. Despite its massive power, this versatile amp is capable of a wide variety of sound, from warm hard rock tones to grim and frostbitten tremolo picking. This amp is based on a total of 10 vacuum tubes:

- 6x 12AX7
- 4x 6L6GC

The 1x12 Metal Machine cabinet is a single 12-inch, closed-back box that is the perfect match to get the signature Metal Machine+ sound.

### Painapple #4



Terrifyingly high-gain, saturated tone with a simplified, single-channel architecture—suitable for six-string guitars in nine-piece bands. Featuring a 3-band EQ and four stages of high gain, it covers everything from Blues and vintage Rock tones to characteristic tones rooted in modern metal, thanks to six vacuum tubes:

- 3x ECC83/12AX7
- 1x ECC81
- 2x EL84

Pair it with the 2x12 Painapple cabinet, a dual 12-inch closed-back box. Orange you glad we didn't call it banana?

**Gazoline Emc2**

Two channels of high-octane, high-gain genius; fuel for discerning metal connoisseurs as well as downtuned seven- and eight-string chugga-chugs. This extremely versatile amp offers a three-way mode switch that lets you move from clean to classic/vintage to heavy/modern and back. A 3-band EQ on each channel is complemented by global Presence and Deep controls to give you even more sculpting options. This heavyweight is powered by eight tubes:

- 6x 12AX7
- 2x EL34

The 4x12 Gazoline cabinet adds even more explosive power in a quadruple 12-inch closed-back box armed with front-loaded Vintage-style drivers. Shake the rafters while you wake the neighbors.

**Demolition Drive**

A screamer for the metal crowd and extended-range instruments. Overdrive your amp of choice while keeping the low end in check. Grab your 7- or 8-string and get noisy with more punch, bass and saturation on the Drive control. Demolition Drive is the perfect overdrive for extended low range. We've added a three-way selectable diode configuration for even more versatility.

## Wildrive



This drive booster is ideal for fans of long beards and concentric circles. Add grit to your cleans or push your lead tones WAY over the top. Combined with a clean amp, Wildrive will take you on a wild ride loaded with heavy, crunchy tones and harmonics. It's also a perfect match for our MCM 800 amp model.

## Dual Comp



Compress your lows and highs independently for nuanced dynamics processing. Dual Comp's unusual design includes overlapping frequencies and independent controls for the amount of compression. There's no attack control, instead the Dual Comp has fixed fast attack on the high band and a slower attack on the lows. There's even a separate bypass for the highs, so only low frequencies are compressed. It's no wonder its hard-to-find hardware inspiration is coveted by tweaky bassists.

## Space Reverb

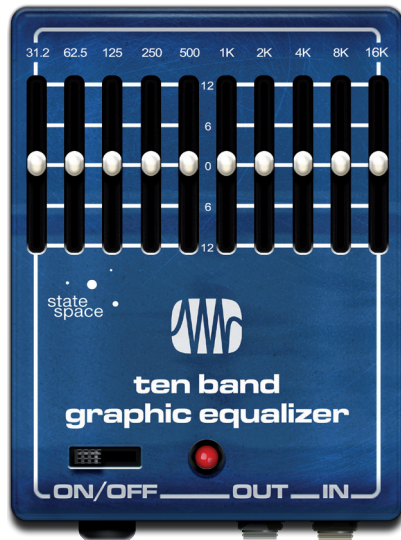


This doesn't sound like any real reverb... or space, for that matter. More like a synthetic swarm of crystalline squarewave cicadas. Space Reverb's uniquely characteristic shimmer is equally at home in guitar rigs and ambient synth setups because of its ability to produce huge reverb tails with a keyboard-like pad texture. The Shimmer control adds a famously heavenly shine, one octave above the input pitch. Beware: at any setting, Space Reverb is everything but subtle.

## Pitch Shifter



Pitch-shift your performance for radical divebombs or sky-high dog whistle tones. Covers a range of +/- two octaves, Morello or less. Pitch Shifter is uniquely capable of producing dramatic "dive bomb" effects, electrifying pitch-bends and stimulating harmony shifts. The Pitch Shifter pedal controls pitch while the single rotary knob selects any of the 16 available presets: five pitch-bend presets, nine harmony effects, and two detune effects.

**Blue EQ**

Surgical tone-sculpting isn't just for Carcass fans. Notch out troublesome frequencies or boost your favorites. With +/- 12 dB across a 10-band graphic EQ covering the full spectrum, Blue EQ is the perfect tool to fight feedback and balance your tone.

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