

Serenade DSD

**Affordable and Portable 32Bit/384KHz and
DSD Audio Interface/DAC/Headphone Amp**



Developed by



Operational Manual

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Introduction

Serenade DSD utilizes a Reference Grade Digital to Analog Converter which has a Dynamic Range of 123dB and THD+N of -105dB, which is rarely seen in this price range. In order to achieve this superb sound quality, Serenade DSD applies Minimum Path, 32Bit DAC Architecture and Jitter Elimination Circuit.

- **Minimum Path:** This technology uses the shortest possible signal path for your audio creating an extremely efficient circuit, lowering the possibility of distortion and reducing jitter.
- **32bit DAC Architecture:** Compared to the more commonly used 24bit technology, 32bit processing inside Serenade DSD's DAC brings lower distortion and noise, a purer sound with less artifacts.
- **Jitter Elimination Circuit:** Our Dual Oscillator design further reduces jitter by providing a more accurate clock source.

Our design philosophy with our entry level audio interface is to focus on the most important feature: sound quality. With an open, warm and transparent sound with an amazing balance between bass, mid and high frequency, you can be sure your sound quality is good enough - detailed enough - to survive in today's demanding market. In order to achieve superb sound quality at an affordable price, we even have to cut the Analog to Digital

We commonly see some high-end audio interfaces support a resolution and sample rate at 24 Bit/192KHz, which is the standard of digital audio these days. But Serenade DSD aims at the future and supports playback at 32 Bit/384KHz, which also covers the newest DXD (Digital Extreme Definition) format at 24 Bit/352.8KHz. Serenade DSD supports the DSD format inverted by Sony and Philips, which has been used on SACD for years. Serenade DSD fully supports 4 kinds of DSD with Native playback:

1. DSD64 (2.8MHz)
2. DSD128 (5.6MHz)
3. DSD256 (11.2MHz)
4. DSD512 (22.4MHz).

With this extended support of high resolution audio, Serenade DSD will greatly enhance your music listening experience.

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Connect Hardware, Serenade DSD Audio Interface

Please note if you need Serenade DSD work, you have to make sure Serenade DSD Audio Interface is connected and for windows users, you need to install the right driver.

Steps to connect Serenade DSD Audio Interface

1. Connect Serenade DSD Audio Interface to your USB port; please note you need to connect Serenade DSD Audio Interface to USB 2.0 or above port.
2. For Mac users, you do not need to install any drivers, OSX will automatically done that for you.
3. For windows users, please install the right drivers for Serenade DSD Audio Interface. You can also find latest driver here in this page
4. During driver installation, it may request you to connect Serenade DSD Audio Interface.

Top Panel



A. Mute button

This is a mode button and can select between mute and un-mute for headphone out.

B. Headphone Volume +

+: turn up headphone output volume

C. Headphone Volume -

-: turn down headphone output volume

Front Panel



A. LED indicator

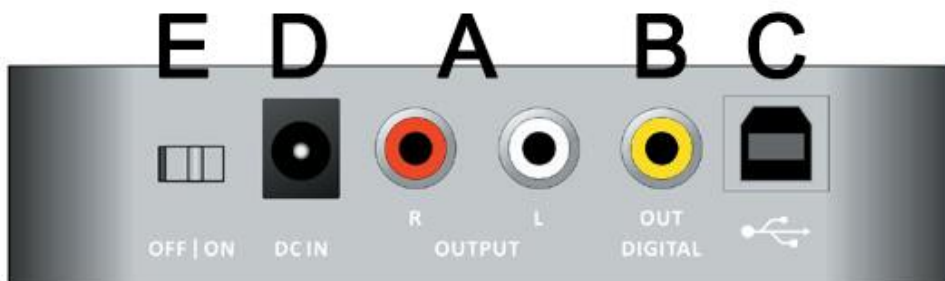
Light up indicates power is on

Go out indicates power is off

B. Headphone output

1/4" stereo headphone output connector

Rear Panel



Outputs

A. Analog output

One pair of RCA connectors, red for right channel and white for left channel.

B. Digital output

One RCA unbalanced connector for connecting external DAC.

Inputs

C. USB: connect to PC via USB and Serenade DSD will work as an USB sound card

Power

D. Power connector

5VDC input, please use bundled power adapter

E. DC IN power switch

Right position: ON

Left position : OFF

Activate all software.

Please note Current Version of Serenade Headquarter does not need activate to use

To activate the software for Serenade DSD, we need the following information from you

1. Your valid Email address, so we can email you the code and other information to you
2. Your purchasing order number if you are not purchasing Serenade from us directly. E.g. you buy it on Amazon.
3. Your Machine I.D for the plugins

To get Machine I.D you need to open Serenade Headquarter. Machine I.D are often seen at INFO subpanel inside the plugins. Like below graphics

Then we can contact us by visiting this page

<http://www.supremepiano.com/contact.html>

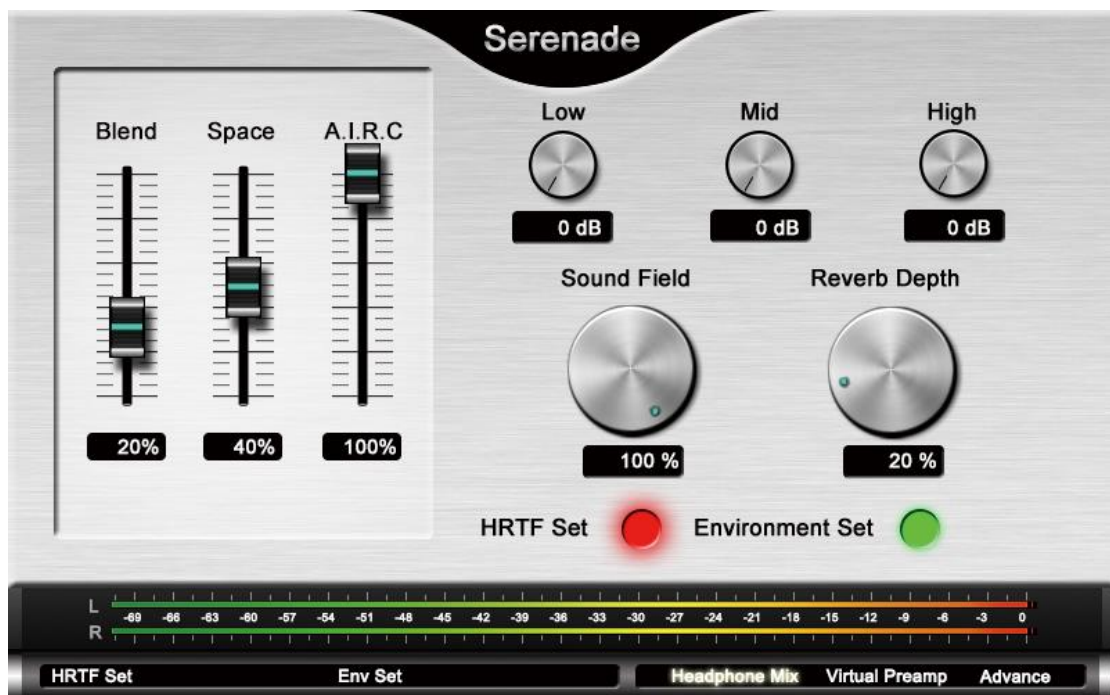
Or email us directly to webmaster@hda.info

Use Serenade Headquarter

Please note Serenade Headquarter maybe marked by some Anti-Virus program as Virus. That's false positive. Serenade Headquarter runs as a VST plugin, no execute program inside.

You can load Serenade Headquarter in any DAW/VST Host as a VST plugin

Headphone Mix Sub-panel



HRTF Set: Load HRTF file here by clicking HRTF Set on the left bottom of main panel. These files will be installed into Serenade Headquarter default folder so after you click load file button, you will first go to default folder and see them in first place.

EnvSet: Load Environment Set file (often simulate a certain type of space) here by clicking Env Set on the bottom of main panel. These files will be installed into Serenade Headquarter default folder so after you click load

file button, you will first go to default folder and see them in first place.

In order to prevent failure to load Env Set file and HRTF Set file, we have an indicator on the Headphone Mix Sub-panel. If the Both Files actually load, it will show Green Light. If not, it will show **Red**

Blend: the blend rate of left and right channel signal. It is very useful when you simulate the natural blending of human ears.

Reverb Depth: How your environment affects the speakers' sound. This could be used to generate added reverb when the sound travelling on air.

Soundfield: How big is the sound field? Some headphones have sound field issue that is they represents a larger or smaller sound field than actual size. This setting is to solve this issue.

A.I.R.C: controls the amount of compensate on high frequency. Usually, after the signal passed through HRTF, the high frequency will be decayed so you may not familiar with this kind of sound. This control is useful if you want to get more clear highs.

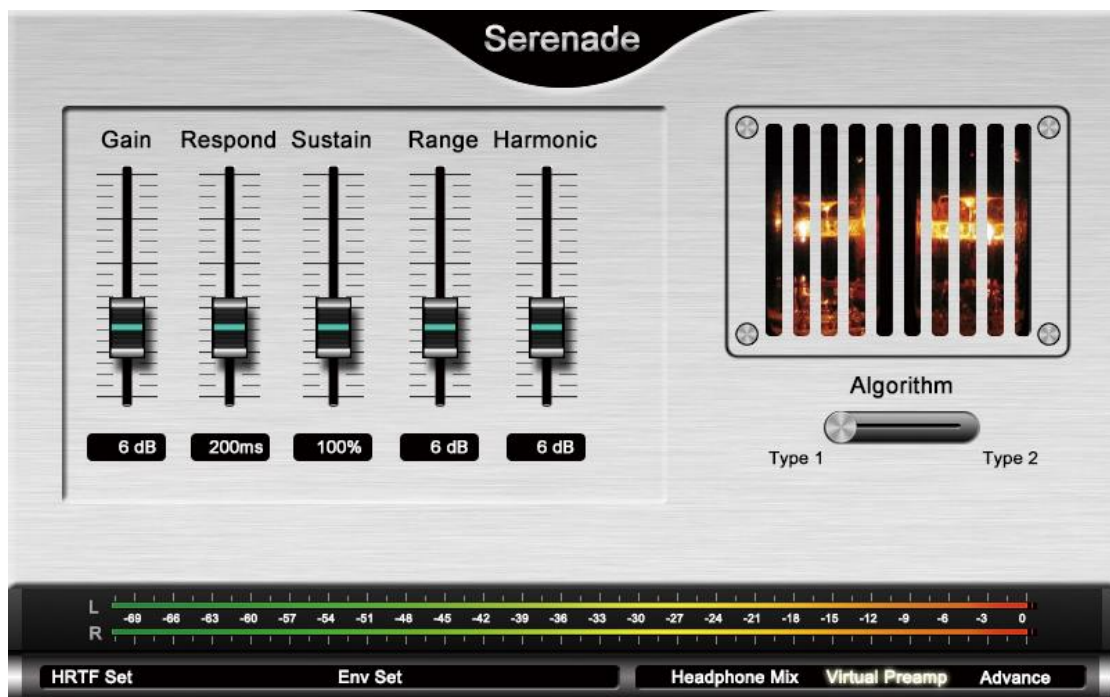
Space: the Size of your listening Environment

Low: Frequency compensate on low frequency

Mid: Frequency compensate on Middle frequency

High: Frequency compensate on High frequency

Virtual Preamp Sub-panel



Gain: in dB.

Respond: The respond speed of the dynamic, measured in milliseconds.

Sustain: Sustain amount for the amp, the larger, and the smoother of the sound.

Range: The Non-Linear Range of the Dynamic.

Harmonic: The Amount of even Harmonic distortion.

Algorithm: Choose different curves for clipping

Advance Sub-panel



Style Designer: Choose the style you want

Amount: control how much the style you want, value from 0 to 10 (max)

Issues & Trouble Shooting

If you meet any issue may relate with hardware or other issues for warranty please contact us for assistance.

Then we can contact us by visiting this page

<http://www.hdta.info/contact.html>

Or email us directly to webmaster@hdta.info