

ROMULUS/PANDORA *Signature*



SIGNATURE UPGRADE

Aesthetix is proud to announce the release of Romulus Signature Vacuum Tube DAC and CD Transport and Pandora Signature Vacuum Tube DAC. Existing Romulus and Pandora units are factory upgradable to Signature.

TRUE NATIVE DSD

Romulus and Pandora Signature offer true native DSD 1x and 2x functionality over USB and 1x DSD over SPDIF (AES/EBU, RCA Coax and TosLink). The entire DSP processing section is replaced (pictured on back). The new section includes an advanced Xilinx gate-array which allows the DSP to be completely bypassed for pure DSD 1x and 2x operation. No alteration of DSD data occurs. Many DACs in the market that claim to play DSD actually convert the data to PCM and thereby completely lose the purpose of DSD operation.

VISHAY Z-FOIL RESISTORS

In addition to the DSP processing section, an entirely new analog board is installed (pictured on back). This

new analog board also allows DSD data to pass directly to the DAC, a Burr-Brown PCM1792A running in pure differential mode. Extremely low noise, high linearity Vishay Z-foil audio resistors are utilized in the critical current-to-voltage conversion stage (pictured on back).

DYNAMICAPS

As in all Saturn Signature products, critical coupling capacitors are replaced with Dynamicaps from Peter Moncrief. Four are installed between the vacuum-tube gain stage and output stage, all in full differential mode. These provide increased resolution, less grain, greater high frequency extension and naturalness, all while maintaining the basic strengths of Romulus' tonal balance. The eight 2uF output capacitors are replaced with 4uF Dynamicaps which provide greater resolution in addition to improved bass definition, drive and dynamics. (pictured on back).

HRS COUPLERS

The four standard rubber feet are replaced with Harmonic Resolutions Systems' Nimbus Couplers specially made for Aesthetix. This change lowers the noise floor and adds more air and space.

DIGITAL REVOLUTION

Aesthetix made digital playback history with the release of Romulus and Pandora vacuum tube DACs. They offer ultra low jitter true asynchronous USB and SPDIF inputs made even quieter by galvanically isolating noise using optical couplers and precision clocking with fixed frequency crystal oscillators custom cut to exacting specifications. The proprietary Aesthetix DSP section adapts its oversampling filters to the incoming sample rate and isolates USB/SPDIF data from the DAC using selective static memory buffering.

The analog stage is fully differential, and the amplification and output stages use vacuum tubes also in a fully differential, zero feedback design. The digital, analog, output and control stages are each given separate power supplies. In Romulus, the CD transport is enclosed in Faraday cage with a separate power supply and retrieves data quietly via the IDE bus. An optional high resolution relay-based volume control can be added to both Romulus and Pandora.

www.aesthetix.net



Romulus Signature Vacuum Tube Digital-to-Analog Converter (DAC) with CD Transport

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Key Signature Upgrade Features Pictured:

1. All New DSP Board
2. True Native DSD via Zilix Gate-Array
3. All New Analog Board
4. Upgraded Dynamicaps Capacitors
5. Upgraded Vishay Z-Foil Resistors

