



Perfectly balanced audio for superior fidelity

Uses the Line Stage Gain Module circuit found in our Reference Series

Separate power supply with discrete analog and control feeds

Front LCD screen provides operating information and feedback

Machined aluminum remote with backlit buttons

When it came time to create the pre-amplifier for the Performance line, our engineering “dream team” couldn’t bear to discard the revolutionary circuits they’d created for our state-of-the-art Reference series preamp, the Altair. So they kept the same circuit topology and found ways to make the Virgo more affordable to manufacture. All the benefits of Constellation Audio’s fearless, radical approach to circuit design remain, as do almost all of the extraordinary gains in performance originally realized.

### Audio in perfect balance

Our Line Stage Gain Module forms the core of the Virgo’s analog circuitry. The module is a fully complementary preamplifier, using separate mirror-

imaged circuits to amplify the positive and negative halves of the audio signal. Through careful parts choice and the use of servo circuits, the Line Stage Gain Module maintains essentially perfect positive/negative balance in the audio signal. The result is near-total noise rejection and extraordinary fidelity.

Our Constellation Link interface allows the Virgo to pass on its perfectly balanced signal straight into our amplifiers, thus bypassing the amplifiers’ input stages for better fidelity.

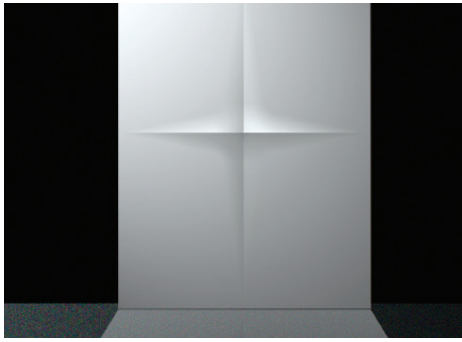
### Circuits in perfect surroundings

Analog preamp circuits are microphonic: Vibration in the air and in the surfaces to which the circuits are mounted can

be picked up by the preamp and sent to the amplifier. But not in the Virgo.

We built the Virgo’s analog circuitry on a “raft” assembly: a thick metal plate with the audio circuitry on top and the control circuitry on the bottom. The raft is attached to the preamp chassis through an elastomeric suspension that allows it to float. Just as a raft floating on a lake is unaffected by disturbances on shore, so the Virgo’s preamp circuitry is unaffected by vibration from external sources.

The Virgo’s aluminum enclosure, machined to a minimum thickness of 8.2mm, blocks all common forms of electromagnetic interference, something a thinner chassis cannot do.



## Elegance in control and design

The Virgo is as simple to operate as it is beautiful to behold. A 432 x 230-pixel LCD screen on the front panel provides full access to all of the Virgo's advanced features, such as input renaming and gain presetting for each input. Using either the buttons and knobs on the front panel or the machined aluminum remote, you can control the Virgo easily using simple, intuitive commands.

## Power in prodigious quantity

In order to protect the Virgo's analog preamp circuitry from electromagnetic fields, we built the power supply into a separate enclosure. Two discreet power supplies reside in this enclosure. One is a traditional analog linear supply with an R-core transformer, designed to provide the cleanest possible power for the analog circuitry. The other supply powers the Virgo's control circuits. The power supply connects to the main preamp chassis through two high-quality Hypertronics cables originally developed for aerospace applications.

Thanks to the carefully constructed power supply and the separate interfaces for audio and control power, the Virgo's analog circuits receive exceptionally noise-free, high-current bipolar DC. Given the practically noise-free, perfectly balanced performance of the Line Stage Gain Module, we could settle for no less.

Those who demand a fully integrated system control can add the Pyxis touch-screen remote, which allows co-ordinated operation with other Constellation Audio products as well as full two-way control, so you can see all of the Virgo's functions on the Pyxis screen, without getting up from your favorite listening chair.

With all the captivating sonic charm of the best single-ended tube preamps, combined with the precision of the finest solid-state components, the Virgo truly offers everything any audiophile could want in a preamp. It may be radical, but this revolution is one every audiophile has been eagerly awaiting.

*Constellation reserves the right to change designs, and / or specifications*

## SPECIFICATIONS

## Virgo Preamplifier

<b>Inputs</b> .....	4 XLR stereo, 4 RCA stereo
<b>Outputs</b> .....	2 XLR stereo, 2 RCA stereo
<b>THD+N (RI &gt;10KΩ)</b> .....	<0.001%, 20 Hz - 20 kHz @ 2V out <0.1%, 20 Hz - 20 kHz @ 10V out
<b>Frequency response</b> .....	10 Hz to 200 kHz, ±0.5 dB
<b>Output noise</b> .....	≤ 20 μV dB, 20 Hz - 20 kHz
<b>Input impedance (balanced)</b> .....	200 KΩ
<b>Input impedance (unbalanced)</b> .....	100 KΩ
<b>Input impedance</b> .....	100K Ω unbalanced, 200K Ω balanced
<b>Output impedance</b> .....	< 50Ω
<b>Volume control resolution</b> .....	0.5 dB from 0 dB to -90 dBFS
<b>Weight, preamp</b> .....	22 lbs/10 kg
<b>Weight, power supply</b> .....	12 lbs/5.5 kg
<b>Dimensions, preamp</b> .....	5.50 x 17.00 x 15.75 in (hwd) 140 x 432 x 400mm (hwd)
<b>Dimensions, power supply</b> .....	5.00 x 6.00 x 14.50 in (hwd) 127 x 152 x 368mm (hwd)

constellation audio

Simply, Light Years Ahead.

3533 Old Conejo Road  
Suite #107  
Newbury Park, CA 91320

e: [info@constellationaudio.com](mailto:info@constellationaudio.com)  
w: [www.constellationaudio.com](http://www.constellationaudio.com)