

INSPIRATION ✨ 2

stereo/mono

Constellation

Inspiration 2 stereo/mono

- Powerful performance in a compact form factor
- 250 watts per channel at 8 ohms stereo, 500 watts per channel at 8 ohms mono
- Revolutionary C-SMPS power supply for lifelike dynamics
- Same Balanced Bridged circuitry as our top-of-the-line amplifiers
- Line Stage Gain Module input stage for essentially perfect signal balance



Our Inspiration 2 Stereo and Mono amplifiers distill the power and passion of our original amplifiers into a more compact chassis. And now we've added C-SMPS, the best amplifier power supply ever created.

The Inspiration 2 amplifiers use our Balanced Bridged technology: a musical, single-ended amplifier module. To achieve the desired output, we add modules, rather than increasing circuit complexity. The result? Ample power to drive any speaker, with the subtlety of a small amplifier.

THE INPUT STAGE

The Inspiration 2 Stereo and Mono use the same Line Stage Gain Module input stage found in our top amplifiers. Hand-matched, low-noise transistors combine with a servo circuit that corrects for any inconsistencies in the signal balance.

The Inspiration 2 amplifiers' Constellation Link interface connects to Constellation amplifiers to take one amplification stage out of the signal path—less complexity, more musicality.

THE POWER SUPPLY

Our Constellation Switched-Mode Power Supply (C-SMPS) rises above the century-old technologies that hinder the performance of traditional amplifiers, with noise more than 20 dB lower than a typical linear supply achieves.

Our Power Factor Correction (PFC) technology provides stable power at any AC supply voltage, anywhere in the world, with voltage and current always in phase no matter what the speaker load. It also boosts these amplifiers' power over the previous version by 20 percent.

THE CIRCUIT

The Inspiration 2 Stereo and Mono employ a balanced configuration, with separate amplifier circuits for the positive and negative halves of the audio signal. Other balanced amps use N-type transistors for the positive half of the circuit and P-type transistors for the negative half. Our Balanced Bridged configuration uses only N-type transistors, so both signal halves pass through exactly the same circuitry—and even the softest musical details are preserved.



THE RESULT

We like to think of the Inspiration 2 amplifiers as distilled versions of our larger models, because the circuits and the core design philosophy are the same. In fact, they're a perfect example of why our approach to amplification works so well. We didn't have to redesign the amps to make them smaller, we just reduced the number of modules and made the power supply—well, let's say a bit less overbuilt.

When you hear what the combination of our innovative audio circuits and revolutionary C-SMPS power supply achieves, we expect you'll be as astonished as the reviewers and showgoers who experienced the debut of these designs. The Inspiration 2 amplifiers may be smaller in stature, but their musicality and emotion are undiminished.

	Monoblock	Stereo
Inputs	2 XLR (1 Constellation Link) 1 RCA	2 XLR (1 Constellation link) 2 RCA
Max power @ 0.1% THD+N, 20Hz-20kHz @ 8 Ω	500W	250W
Max power @ 0.1% THD+N, 20Hz-20kHz @ 4 Ω	1000W	420W
Input sensitivity @ power at 0.1% into 8 Ω	17.8V direct i/p, 3.5V non-direct	15V direct i/p, 3V non-direct
Input sensitivity @ power at 0.1% into 4 Ω	16V direct i/p, 3.5V non-direct	12.5V direct i/p, 2.6V non-direct

Outputs	Metal binding posts
Frequency response	10Hz - 80KHz +/- 0.05dB
Gain - direct input	12 dB
Gain - non-direct input	25.2 dB
AC power draw - standby	< 0.25W
AC power draw - idle	135W
AC power draw - @ max power in 8 Ω	1300W
AC power draw - @ max power in 4 Ω	1500W
Power factor - partial power	0.98
Power factor - full power	1.00
Damping factor	80
S/N ratio DC-90KHz ref 1 volt, A weighted	100dB
S/N ratio DC-90KHz ref full power, unweighted	115dB
S/N Ratio DC-90KHz ref full power, A weighted	125dB
Output impedance	0.1Ω
Weight	43 lbs./19.5 kg
Dimensions	17"/432mm x 19"/483mm x 8.5"/216mm (WDH)

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



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