


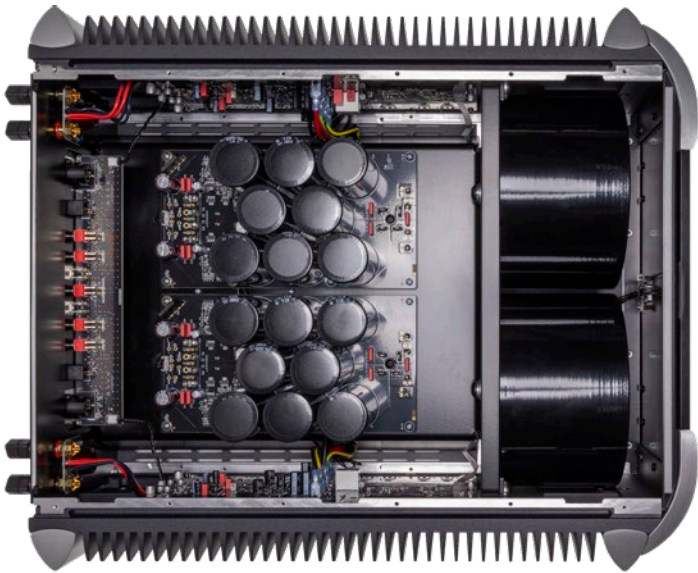
M O O N

by SIMAUDIO

Explore New Frontiers

A black and white photograph showing a roll of white paper being processed by a machine. The paper is partially unrolled and is being fed into a dark, industrial-looking machine. The lighting is dramatic, highlighting the texture of the paper and the metallic surfaces of the machine. The machine has some faint markings, including the letters 'M O' and the word 'Stand' with a circular symbol below it.

Technical White Paper
861



In the realm of high-end audio, the MOON 861 Amplifier stands as a beacon of uncompromising quality and musicality. Crafted by the visionary engineers at MOON, this amplifier transcends mere technical specifications—it embodies a harmonious fusion of art and science. Let us delve into the heart of this sonic marvel.

HERITAGE AND INSPIRATION

The 861 draws inspiration from the legendary MOON 888. Like a torchbearer passing the flame, it inherits the meticulous craftsmanship and relentless pursuit of perfection. The Essence of Precision.

MDCA – MOON DISTORTION-CANCELLING AMPLIFIER:

At the core of the 861, the MDCA circuitry redefines what's possible. Imagine a canvas where every brushstroke is deliberate, every note crystal-clear. MDCA achieves this by minimizing distortion without resorting to global feedback. It does so with the following:

A precise comparator circuit, independent from the signal path, compares its input and output to ascertain minute signal corrections to inject at the output stage, which reduces distortion and noise to previously unattainable levels.

- more precise signal correction than with traditional feedback designs
- more efficient correction applied to output (avoids high-gain/high-power signal path)
- direct coupled amplifier without additional DC servo circuit required to remove DC
- wider bandwidth
- excellent damping factor
- significantly lower noise and distortion than previous MOON amplifier circuits

As you immerse yourself in your favorite music, the 861 becomes an invisible conduit, faithfully transmitting the artist's intent.

DOMINANCE IN POWER AND CONTROL:

Two colossal 1500VA transformers lie within the 861, ready to unleash its potential. Openings in the bottom of the amplifier were required to accommodate the size of the shielding cylinders of the transformers. Coupled with an impressive 228,000uF of capacitance, this amplifier effortlessly delivers its power

through 32 MOON output transistors. Regardless of the speakers to drive, the 861 maintains unwavering control, revealing nuances you never knew existed. A back panel mounted switch allows to easily configure the 861 in monaural mode for even more power. The MOON 861 Amplifier isn't just an audio component; it's an invitation to explore the depths of your music collection. Close your eyes, and let the notes envelop you. Feel the resonance of each instrument, the breath of the vocalist. This isn't mere amplification; it's a communion with artistry.

Specifications

Output Power (Stereo 8 Ω) : 300 W

Output Power (Stereo 4 Ω) : 600 W

Output Power (Mono 8 Ω) : 800 W

Input Sensitivity : 1.4 V

Input Impedance : 47 kΩ

Gain : 31 dB

Frequency Response : 2 Hz – 100 kHz (+0 dB / –3 dB)

Crosstalk : –119 dB

Signal-to-Noise Ratio : 119 dB

Total Harmonic Distortion + Noise (@ 1 W) : 0.002 %

Total Harmonic Distortion + Noise (@ 300 W) : 0.001%

Intermodulation Distortion : 0.002%

Damping Factor : 900

Power Consumption (Idle): 85 W

Power Consumption (Full Power Standby): 75 W

Power Consumption (Low Power Standby): 1.25 W

Dimensions (WxHxD): 18.95x8.26x24 in / 48.1x21x60.9 cm

Weight: 125 lbs / 58 kg