



## Integrated Amplifier with DAC



### Technical Specifications

Output power	2x 250 W / 8 Ω - 2x 500 W / 4 Ω	2x 400 W / 8 Ω - 2x 800 W / 4 Ω
Frequency response	20 Hz-20 kHz - 0.5 dB, and 2 Hz-70 kHz - 3 dB	20 Hz-20 kHz - 0.5 dB, and 2 Hz-70 kHz - 3 dB
Total Harmonic Distortion	< 0,01% at rated power	< 0,01% at rated power
Signal to noise ratio	> 110 dB	> 110 dB
Line out maximum level	13V balanced, 6,5V unbalanced	13V balanced, 6,5V unbalanced
Total Harmonic Distortion	< 0,001% pre out	< 0,001% pre out
Input impedance	20 kΩ RCA or 40 kΩ Balanced	20 kΩ RCA or 40 kΩ Balanced
Line output impedance	75 Ω	75 Ω
Voltage gain	26 dB (+10 db headroom)	26 dB (+10 db headroom)
Recommended speaker load	4-16 Ω	4-16 Ω

### Connectors

Balanced analogue inputs	1 pair gold-plated XLR Neutrik	1 pair gold-plated XLR Neutrik
Unbalanced analogue inputs	2 pairs of gold-plated RCA stereo	2 pairs of gold-plated RCA stereo
Digital inputs	1 pc USB type B, 1 pc Toslink, 1 pc RCA	1 pc USB type B, 1 pc Toslink, 1 pc RCA
Balanced analogue outputs	1 pair gold-plated XLR Neutrik	1 pair gold-plated XLR Neutrik
Unbalanced analogue outputs	1 pair of gold-plated RCA stereo	1 pair of gold-plated RCA stereo
Speaker output	2 pairs of gold-plated safety banana	2 pairs of gold-plated safety banana
Trigger, 12 V	1 pc mini jack	1 pc mini jack

### Size & Power

Power Requirements	115 VAC/230 VAC, 50 Hz/60 Hz, 1000W max	115 VAC/230 VAC, 50 Hz/60 Hz, 1600W max
Power consumption stdb/idle/max	<1W/23W/1000W	<1W/35W/1600W
Dimensions (WxHxD)	325 x 105 x 420 mm / 12.8 x 4.1 x 16.5"	325 x 105 x 420 mm / 12.8 x 4.1 x 16.5"
Weight	10 kg / 22 lb	13 kg / 28.7 lb

Gato Audio ApS reserves the right to change design and specifications at any time without notice.



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DIA-250 & DIA-400

# Gato Audio DIA-250 & DIA-400



The all-new Gato Audio DIA-250 and DIA-400 Class-D Integrated Amplifiers are designed and built to a vision of combining technology, power, sonic performance, connectivity, versatility, stunning looks and compact design. Both amplifiers feature built-in D/A converters with electrical, optical and USB inputs. High quality analogue input is via RCA connectors or via XLR connectors for true balanced signals. Both balanced and unbalanced line outputs are provided. Even the least powerful DIA-250 offers 250 watts per channel into 8 ohm loads, and the DIA-400 no less than 400 watts per channel. Both amplifiers double their power output into 4 ohm loads. Modern Class-D technology enables extremely high efficiency, thereby providing both enormous power and huge voltage swing. Besides the obvious benefit of having this much power, the huge voltage swing from these powerhouses gives effortless dynamic headroom without clipping, all in the service of bringing you stunning musical performance.



## Class-D Output Stage

The DIA-250 and DIA-400 amplifiers offer state of the art Class-D output stages with dedicated and optimized switch mode power supplies. The multiple stage power amplifier is built around proven technology from International Rectifier, optimized with a precision high frequency oscillator and PWM modulator. A pair of precision switching MOS-FET transistors, with super low on-resistance ensures the high frequency switching is done perfectly and with as little loss as possible. The output filters are made from quality PP capacitors and low DCR coils, converting the high power PWM signals back into detailed and smooth analogue music.



## Analogue Input Stage

The analogue input stage is where everything begins. It not only connects external inputs and the built-in D/A converter with the output stage, it adapts impedances, adjusts levels and switches signals. A super-gentle embrace of the delicate analogue signals is important for the total performance of the amplifier. At Gato Audio we have utilized our many years of experience in "voicing" analogue amplifiers to make this particular stage perform at its very best. We tuned the input stage to perform with a natural and lifelike sound, affecting the original signal as little as possible.



## D/A Converter

The built-in D/A converter offers real high end performance, enabled by the use of a dedicated power supply, a balanced-driven Burr-Brown PCM1794 D/A converter, an optimized high bandwidth I/V converter, and an analogue stage with low-Q, low pass filters. All digital inputs are upsampled to 24bit/192kHz. This D/A converter will upgrade any digital source - such as wired or wireless streaming from your computer or CD drive - to a high end level of detail and musical performance.



## USB Versatility

The true 24bit/192kHz digital input via the state of the art asynchronous USB circuit is especially worth highlighting. It enables the possibility of a sonic performance vastly above that of any CD. It is the key note of making these amplifiers a quality-enhancing connection point for your Mac, PC or even your iPad.



## Connectivity

We had our eye on versatility and connectivity when designing these new amplifiers. The DIA-250 and DIA-400 offers not only a wide range of digital and analogue inputs, but also line outputs, a trigger signal for external power amplifiers, and a configurable home theater input. The HT input can turn the amplifier into a fixed level power amplifier for use in a surround setup, without compromising the sonic performance.



## LED Display

By choosing a large high contrast white LED dot matrix display, we gave the DIA-250 and DIA-400 a distinct appearance, easy to understand, easy to see and operate – even at remote control distance. In addition to displaying output level and selected input, it also displays the sample rate of the digital input – revealing the quality. The LED display brightness is fully dimmable by the remote control.



## Accessories

A quality metal incased remote control, batteries, operating manual, mains cable, and reusable packing are supplied with the amplifier.



## Covers

Covers are easy to exchange and adapt to your home decor. We offer three different design variants: high gloss black, high gloss white and high gloss walnut veneer.

