

S T A T E O F H E A R T



THE
GRYPHON



THE GRYPHON DM 100 POWER AMPLIFIER FEATURES

- Dual mono configuration
- 100 Watts Pure Class A
- Programmable bias
- Custom-made 1,200 Watt transformer for each channel
- DC coupling
- Independent, regulated power supplies with RF and HF noise filtering
- Select premium-grade components
- Non-magnetic chassis
- Comprehensive, non-invasive protection circuitry
- No output relays
- Non-resonant, mechanically grounded chassis
- Modular design

One could almost say that the long-awaited Gryphon DM 100 power amplifier was created by popular demand, to follow up the success of our acclaimed preamplifier projects. Numerous glowing reviews culminated in the selection of the Gryphon Limited Edition Preamp as "One of the most innovative consumer electronics products of 1990" for the exclusive Innovations 90, Design and Engineering exposition in connection with the Consumer Electronics Show, June 1990. Therefore, it was only natural for the Gryphon design team to take up the challenge of creating a power amplifier to match the acknowledged quality of our control amplifiers.

In the development of the Gryphon DM 100 we have made extensive use of a unique tool: our own library of more than 1,000 original master tapes of classical recordings made during the Golden Age of studio engineering from 1956-1976.

As a vital supplement to these tapes, recordings made in familiar venues by members of the Gryphon team provide an absolute reference that allows us the singular opportunity to evaluate the performance of our products at all stages of development.

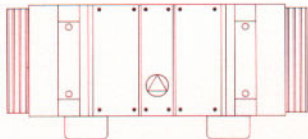
Class A

True Class A gain stages have always been a primary design feature in Gryphon products. Class A biasing reduces distortion and eliminates switching distortion altogether. Class A performance is audible in the form of smoother, more effortless reproduction. A switch on the rear panel of the Gryphon DM 100 allows adjustment of the amplifier's Class A bias. In the 100% mode the DM 100 provides 100W of PURE CLASS A power into an 8 ohm load. The 50% and 75% settings do not reduce total output power, but bias power output more heavily towards Class A/B, for use with more sensitive loudspeakers.

Wide bandwidth

Much of the "secret" behind the superb performance of Gryphon audio designs lies in the careful implementation of circuits with wideband frequency response. This is a painstaking endeavour in which the actual layout and ground pattern of the PC boards is crucial to the achievement of superior sonic performance with no loss of inherent stability. In the DM 100, transistors are mounted on a single, large, double-sided printed circuit board with 105 μ m of copper per side. The output board is connected to the speaker terminals via a solid, gold-plated copper busbar. Internal cabling is kept to an absolute minimum. Cabling to the balanced inputs is an exclusive Gryphon long crystal silver design.

Wideband frequency response ensures the high slow rate essential to the realistic handling of the transients which routinely occur in live music, as well as contributing to the accurate recreation of the natural decay of high pitch instruments and improving phase characteristics for correct soundstaging and imaging.



Dual mono design

Dual mono topology has always been a Gryphon trademark. The two channels of the DM 100 share only the chassis and AC power cord. Beyond that, they are two wholly independent devices; all circuitry, as well as the massive power supplies being completely separate.

The dual mono concept, which may at first seem like overkill, is essential to proper soundstaging. Once you've experienced it, there's no living without it.

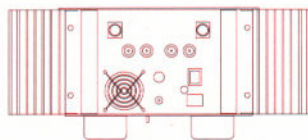
To take the dual mono concept to the next plateau, we offer the additional option of bumping your system with a separate DM 100 for each speaker. The channels can be dedicated High and Low, with the Low channel optimized for bass amplification. Your national Gryphon distributor can make the conversion free of charge in connection with the purchase of the second DM 100. The Gryphon DM 100 connects to signal sources via balanced XLR inputs. Duplicating inputs to accommodate standard single-ended RCA phono plugs would introduce more cable and soldering in the signal path, sacrificing ultimate sound quality on the altar of convenience.

High quality adaptors are included to connect unbalanced signal sources to the balanced input.

Power Supply

The transformers feature extensive shielding between the primary and secondary sides. AC power line conditioning removes RF interference and HF noise products. The transformers are laid out in a vertical array in order to control magnetic radiation. Four high-current bridge rectifiers, hard-wired for maximum current transfer, are used per channel, followed by a pair of 48,000 μ F computer-grade RIFA capacitors.

A combination of solid copper busbars and heavy gauge wire distributes power to output and gain stages. The driver section, with its own 20,000 μ F capacitor bank, is fed from separate windings on the transformer's secondary side and connects directly to the output boards without wiring.



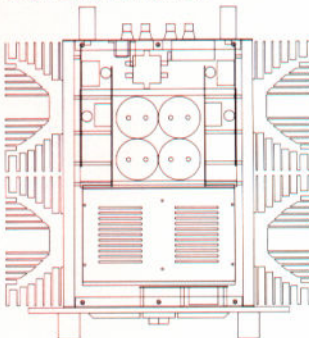
Modular design

In keeping with the established Gryphon design philosophy as realized in the XT and LE preamplifiers, the DM 100 is basically a modular construction, so that future advances in audio design can be easily incorporated in upgrade modules.

Considerable effort has gone into obtaining and, in many instances, designing from scratch the very finest components for the Gryphon DM 100. The silver internal wiring, heavy-duty five-way binding posts and 1,200W power transformers are all original Gryphon creations.

Non-magnetic, non-resonant cabinet

With the necessary exception of the transformer shield box, all cabinet parts are made of non-magnetic materials. The mechanical design of the cabinet and assembly methods are all carefully calculated to ensure minimum resonance, either through the use of mechanically grounded high mass or decoupling. Vibration-sensitive components, capacitors in particular, are thus guaranteed a non-resonant environment.



Exterior design

In the Gryphon DM 100, as in every Gryphon product, form follows function in a unique synthesis of aesthetics and practicality.

It is our goal with the Gryphon line of fine audio equipment to set a new standard in high end finish, using only the best materials and the most advanced production and assembly methods. All surfaces are brushed aluminum. Countersunk Allen screws contribute to the "seamless" look of Gryphon products.

The high standard of finish is maintained inside and out with design solutions that are more costly than is normally seen in audio. But viewed in the context of the overall cost and quality of the product, we believe these details make a significant statement and a worthwhile contribution to the pride and pleasure of Gryphon ownership.

Should you require additional information, please accept our cordial invitation to visit the showroom of your authorized Gryphon dealer. A select number of qualified audio salons whose staff share our commitment to audio excellence have been appointed to guide you on your way to the Gryphon experience. With their expert assistance you'll no longer be listening to hi-fi. You'll be listening to music.

Dealer/Distributor

