

THE
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THE GRYPHON MIKADO

Gryphon Mikado CD Player

Features

- Four Dual-Differential 24 bit/96 kHz AKM Digital-to-Analog Converters with separate regulated power supplies
- Upsampling to 24bit/96 kHz for enhanced sonic performance
- Modular digital audio sections for possible future upgrades
- Two custom-built, temperature-compensated crystal oscillators with better than 5 parts per million accuracy
- Heavily modified Philips CD-Pro 2 transport with all-metal chassis
- True class A, fully discrete analog circuits with no negative feedback
- First-order analog filter with silvered Mica capacitor
- +/- 20 VDC regulated voltage supplies for best THD and noise suppression in analog sections
- Four separate custom-built toroidal transformers for digital and analog sections
- Completely isolated power supplies for digital section and transport/display
- 15,000 microFarad power capacitor banks per channel
- True Dual Mono Configuration
- Ultra-short signal path with minimal Internal wiring



- Four-layer printed circuit board with silver surface for optimal signal transfer
- Balanced analog outputs with PCB-mounted gold-plated Swiss Neutrik XLR sockets
- Single-ended analog outputs with custom-made PCB-mounted gold-plated phono sockets
- Balanced 110W AES/EBU and 75W S/PDIF digital outputs
- 40-gram precision-tooled anodized aluminum disc clamp
- Fully remote controlled operation
- Designed and built in Denmark

In a radical reassessment of the potential of the CD medium that encompasses every aspect of disc playback, The Gryphon Mikado CD player affirms Gryphon's position at the forefront of digital audio research. In the classic Gryphon tradition,



Mikado is a true dual mono configuration with total separation of the two audio channels and extensive power supply isolation and filtration.

Gryphon Mikado employs the finest CD transport in the world, Philips CD-Pro 2 sealed top-loading mechanism built on a heavy die-cast metal frame for improved performance and stability. The motor-driven cover and suspended, floating mechanism effectively isolate the disc from external vibration.

Dual Master Clock

Conventional CD players typical-



ly incorporate a single clock oscillator of debatable quality. Even many CD players with upsampling based on lesser implementations of primitive synchronous sample rate conversion (simple interpolation of new samples) make do with a single master clock. Placed near the CD transport, this oscillator also supplies the clock signal to the digital filter and the D/A converter. Timing inaccuracies are simply passed directly on to subsequent circuit stages.



Gryphon Audio Designs take an uncompromising approach to these serious issues in the Gryphon Mikado. Instead of letting the oscillator at the CD transport generate the overall master clock, which would result in mechanical and electrical jitter, we place an ultra-low jitter oscillator at the DAC, while a second separate local master clock controls the transport.

The dual crystal oscillators, one operating at the standard CD frequency of 44.1 kHz, the other at more twice that frequency, are designed and built specifically for the Gryphon Mikado.

Asynchronous Upsampling

Gryphon Mikado employs state of

the art asynchronous sample rate conversion to execute complex mathematical calculations with extreme speed and precision. In stark contrast to the extravagant claims made by other manufacturers, Gryphon readily acknowledges that upsampling can neither miraculously restore lost

information nor generate "new information."

As usual, there is a straightforward scientifically valid explanation for the sonic benefits of upsampling. Without upsampling, a complicat-

ed brickwall analog filter is required following the conversion process to eliminate high-frequency spurious. This filter results in temporal smearing, energy loss, compromised resolution and reduced transparency.



Gryphon's sophisticated

third-generation upsampling technology shifts aliasing noise upwards in frequency so that the upper corner frequency of the digital anti-aliasing filters can be more than



doubled compared to the standard 44.1kHz sample rate. Following the digital-to-analog converters, Gryphon Mikado executes the analog filter function with a single silvered Mica capacitor. This simple first-order output filter ensures enhanced impulse response, greater resolution of fine detail, sharper image focus and extended high-frequency response.

Dual Differential DAC's

After comprehensive listening sessions to seek out the best available digital-to-analog conversion technology without regard to cost or other extraneous considerations, Gryphon selected a Delta-Sigma DAC from AKM, acclaimed designers of the world's finest professional A/D and D/A converters. It is

more than likely that many of your favorite CD's were recorded using AKM conversion technology.

Gryphon Mikado employs two stereo AKM D/A converters per channel configured in a Dual Differential topology with separate regulated power supplies. This "overkill" solution yields perfect channel separation, greatly improved out-of-band noise suppression and significantly enhanced dynamic range.

The advanced DAC topology at the heart of the Gryphon Mikado makes a major contribution to the player's effortlessly natural rendering of a three-dimensional soundscape with exceptional timing and razor-shape detail.

Power and Isolation

Digital, analog and display circuitry and their power supplies are carefully isolated in the Gryphon Mikado. Four separate custom-built toroidal transformers are employed to ensure effective electrical isolation of the digital and analog audio sections. The display is housed outside the main chassis and draws on a power supply that is isolated from the digital audio power supply.

By combining Gryphon's latest innovations in sample rate conversion and digital-to-analog conversion with sleek, low-profile design and a sophisticated top-loading disc mechanism, Gryphon Mikado will revitalize your compact disc collection. Visit your local authorized Gryphon showroom to experience first-hand the true quality your favorite music with the Gryphon Mikado CD player.



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