



MAGNETAR

ENGINEERED
WITHOUT COMPROMISE

ULTIMA

THE NEW REFERENCE IN LUXURY UNIVERSAL MEDIA TRANSPORT



The world's first battery-assisted luxury universal media transport
engineered without compromise.

THE ART OF ABSOLUTE PERFORMANCE

UHD BLU-RAY • BLU-RAY • DVD • CD • SACD • DVD-A • DSD/DOP • USB • NETWORKED

THE ABSOLUTE PINNACLE OF UNIVERSAL MEDIA TRANSPORT

The Magnetar ULTIMA represents the absolute pinnacle of universal media transport engineering. A statement product conceived without compromise and developed for those who demand the highest attainable level of digital audio and video performance. More than a disc player, more than a media player, ULTIMA is a precision reference platform engineered to redefine what is possible from physical and file based media playback in the modern era.

Created through an obsessive focus on electrical purity, mechanical precision, and signal integrity, ULTIMA has been designed from the ground up to serve as the definitive digital source component for the world's most advanced home cinema and high-performance audio systems. Every structural element, every power stage, every isolated circuit path, and every engineering decision exists for one purpose alone: the uncompromised preservation of source data and timing accuracy from disc to display or processor.



ULTRA-HIGH PRECISION SYNCHRONIZED CLOCK ARCHITECTURE

ULTIMA's advanced timing system has been engineered around an ultra-high precision, ultra-low phase noise synchronized clock architecture designed to maximize timing accuracy and signal integrity throughout the playback chain.

Ultra-high precision refers to exceptionally accurate frequency performance and outstanding long-term stability. The ULTIMA crystal oscillator module achieves a stability rating of 0.01–0.05 ppm.

Ultra-low phase noise refers to superior short-term frequency stability and extremely low timing noise. In the time domain, this appears as exceptionally low jitter, directly influencing timing margin, data sampling accuracy, and signal integrity within high-speed digital interfaces. The ULTIMA crystal oscillator module achieves phase noise below -150 dB.

ULTIMA utilizes a synchronized master clock architecture built around a unified 10 MHz master reference clock used to generate all other system clock frequencies while maintaining synchronized timing relationships throughout the system. This type of architecture is considered an advanced and highly sophisticated implementation within communications systems, precision measurement environments, and high-speed data processing applications.

The greatest advantage of this approach is that the entire system operates from a unified “time axis,” allowing data flow and system timing relationships to remain mathematically aligned, predictable, and synchronized.

Even though multiple frequencies are utilized throughout the system, including 25 MHz and 27 MHz domains, they are all derived from the same 10 MHz master reference clock, ensuring predictable phase alignment and consistent timing relationships across critical system processes.

This architecture contributes directly to improved overall system stability, cleaner eye patterns, lower bit error rates, significantly reduced total phase noise within PLL-generated clocks, and improved overall disc playback stability.





REVOLUTIONARY BATTERY-ASSISTED DC POWER ARCHITECTURE

At the heart of ULTIMA is a revolutionary battery-assisted DC power architecture unlike anything previously realized in a luxury universal media platform. Rather than relying exclusively on traditional AC-derived internal power delivery, ULTIMA incorporates dedicated BYD lithium-based power stages engineered specifically to isolate critical processing and signal pathways from the microscopic fluctuations, electrical contamination, and noise commonly introduced by conventional power environments.

This advanced implementation allows critical transport, clocking, and digital transmission systems to operate within an exceptionally stable and ultra-low-noise environment. By combining battery-assisted DC power, ultra-low phase-noise clocking, optimized grounding, isolated circuitry, and precision signal routing, ULTIMA is designed to preserve timing accuracy and digital signal integrity throughout the playback chain.

ENGINEERED AS A PURE REFERENCE TRANSPORT

This revolutionary design approach supports cleaner, more stable HDMI transmission and helps minimize the electrical noise and timing instability that can affect high-speed digital interfaces. The goal is not to artificially alter the image, but to preserve the integrity of the original source signal with the highest possible consistency.

Equally significant is ULTIMA's focus on digital signal integrity throughout the transport process. Through its battery-assisted low-noise architecture, ultra-low phase-noise synchronized clock system, optimized grounding topology, and isolated internal design, ULTIMA has been engineered to minimize electrical interference and timing instability within critical high-speed digital transmission pathways.

By preserving timing precision and maintaining a more stable operating environment for transport and HDMI transmission systems, ULTIMA is designed to support cleaner signal transmission to external DACs, processors, and reference playback systems.

The result is an engineering platform focused on maximizing playback stability, reducing accumulated system noise, and preserving source integrity throughout the digital playback chain.

UNIVERSAL MEDIA PLAYBACK



THE ART OF ABSOLUTE PERFORMANCE

Unlike conventional premium players that divide engineering priorities between analog output stages, integrated DAC sections, streaming functionality, and convenience-focused feature sets, ULTIMA has been developed with singular focus and uncompromising intent. By dedicating its entire architecture to transport precision and digital signal purity, Magnetar has created a platform optimized specifically for today's finest external processors, DACs, AV processors, and reference cinema environments.

The physical construction of ULTIMA reflects this philosophy in every detail. Its massively reinforced chassis architecture has been engineered to minimize vibration, suppress resonance, and maintain absolute mechanical stability during operation. Internally isolated compartments shield sensitive circuits from interference while carefully controlled grounding and power distribution strategies further reduce unwanted electrical interaction between subsystems.

Every aspect of the transport mechanism itself has been refined for maximum precision and reliability. Disc reading stability, servo control behavior, vibration management, and data integrity have all been elevated beyond conventional universal playback standards. The result is a transport platform capable of extracting exceptional performance from UHD Blu-ray, Blu-ray, DVD, CD, SACD, DoP via AES, and high-resolution media formats with remarkable consistency and authority.

MAGNETAR U L T I M A

ULTIMA was not designed to follow trends. It was designed to establish a new category of performance.

With an entertainment ecosystem increasingly dominated by compressed streaming platforms and disposable viewing experiences, ULTIMA stands as a celebration of permanent media ownership, uncompromising craftsmanship, and engineering excellence pursued without limitation. It is a product created not for the mainstream, but for enthusiasts and collectors who understand that true reference performance is achieved only through relentless attention to detail and uncompromising execution.

This is not simply another flagship component.

It is Magnetar's definitive statement on what universal media playback can become when every possible limitation is challenged, every subsystem is refined without compromise, and every engineering decision is guided by the pursuit of absolute performance.

Magnetar ULTIMA.

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