



HERITAGE

"Reinventing what is possible"

In 2001 Halcro released the only amplifier in the world to challenge the theoretical limit - almost immeasurable levels of distortion.

In 2002, the industry's leading publication "Stereophile" ran a cover article on Halcro's DM58, stating "The Best Amplifier Ever". Stereophile and numerous other parties independently verified Halcro's claims and reported a product that defied belief, both technically and musically.

Numerous awards and glowing reviews soon followed and Halcro grew into one of the most respected Hifi brands in the world.

20 years since the release of the original DM58 and 5 generations of product evolution, which has also included reference pre-amplifiers, a multi- format disc player, multichannel power amplifiers and surround sound processors, Halcro still maintains an almost mythical status in the audiophile community.

INNOVATION IN EVERY CIRCUIT

Beneath the elegant shell of a Halcro amplifier lies a combination of revolutionary circuitry, meticulous attention to detail and plain common sense.

The Eclipse amplifiers embody 12 fundamental confusion conceptual changes in how an amplifier is designed conceived. None of the Eclipse circuitry is in any way effects. similar to conventional amplifier circuits.

Total Harmonic Distortion is less than 1000 parts per billion at full power. Distortion is responsible for creating ghost notes. For example; when two notes are played simultaneously, say E in one octave and C in the octave above, the distortion of an amplifier will create a third note, G, in the octave below that of E. Within harmonically complex music, distortion clutters the signal with exaggerated, harsh and confusing sounds. Halcro's circuitry has been designed to eliminate these intrinsic non-linear effects.

Halcro has 5 international patents in areas covering aspects of our unique power factor corrected power supply, amplifier topology and class-D amplifier topology.

'Halcro is unique. Unique in its imagination of what an amplifier is and in how to push the boundaries of technology.'

Greg Borrowman, Audio Esoterica, September 2019





Where art meets state of the art

Halcro Eclipse power amplifiers are a triumph of form and function. Clean, graceful lines belie the complexity and sophistication underneath.

Every element performs a vital function. The unique "three box" design separates the power supply from the delicate audio circuitry with substantial shielding and physical separation.

The elegant pillars hide large heatsinks that keep the system running at the optimum temperature. The solid casework panels provide acoustic isolation and damping to reduce vibration-induced distortion. Everything has a purpose.

Open the amplifier and you'll find everything is just beautiful on the inside. Our unwavering attention to detail inside and out is what makes Eclipse so special.







TECHNICAL HIGHLIGHTS

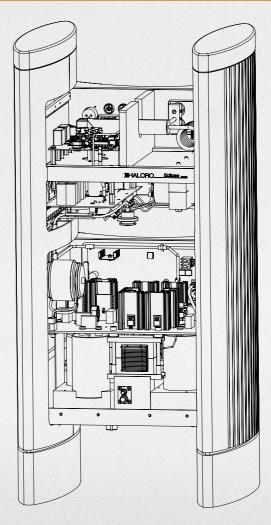
HALCRO ECLIPSE

Twelve MOSFETS provide amplification, allowing amplifier to drive all loudspeaker loads.

Air-pressure activated power switch to minimise interference.

Housing the amplification and power supply in separate compartments reduces supply-generated noise leaking into the audio section.

Components used are industrial-grade. They are more tolerant to extremes of temperature and have a longer life than commercial grade components.



Large capacitors deliver extremely low Equivalent Series Resistance (ESR) enabling faster response time to signal, resulting in a more natural sound. Substantial eddy current and electrostatic shielding used throughout reduces noise coupling which lowers distortion.

Six-layer Printed Circuit Boards used in amplification stage to isolate and shield functional areas to lower high-end THD.

Universal Power Factor Corrected power supply. This power supply has no toroidal transformer. It is a switching, not a linear, power supply.

Four-layer Printed Circuit Boards in power supply isolate and shield functional areas improving power supply efficiency.



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