

The Architects of Sound

)))HALCRO Reference Audio

In October 2002 the highly respected Stereophile Magazine (USA) released an issue with a headline on the front cover stating "Halcro's dm58: The Best Amplifier Ever!"

"The Halcro dm58 is a paradigm-destroying component that could well justify the creation of a 'Class A+' amplifier category in 'Recommended Components'. It really is that good."

*Paul Bolin, Stereophile Magazine, October 2002.*

## )))HALCRO Reference Audio

Reference is a term used far too loosely in the high-end audio world. Most companies name a line of products 'reference quality'. To be truly reference quality a product must show it can reproduce music exactly as it was recorded, this is not the case with most products.

Halcro's team of physicists and engineers led by Bruce Candy, a highly regarded physicist and committed audiophile, have created true reference quality products without adding any exaggerated characteristics or coloration to the music. Halcro reference audio delivers 'straight wire with gain' transparency resulting in purity and musicality of the finest nature. A lower noise floor brings you more dynamic range and improved sound staging. Top-end, mid-range and bass are life-like and untainted.

If you are passionate about the natural and emotional response produced by music, you must own Halcro.

What do you do  
when you make...

...the best amplifier ever!

*Stereophile Magazine, October 2002.*

You improve it.

Announcing the new  
dm88 and dm78  
monoblock amplifiers.



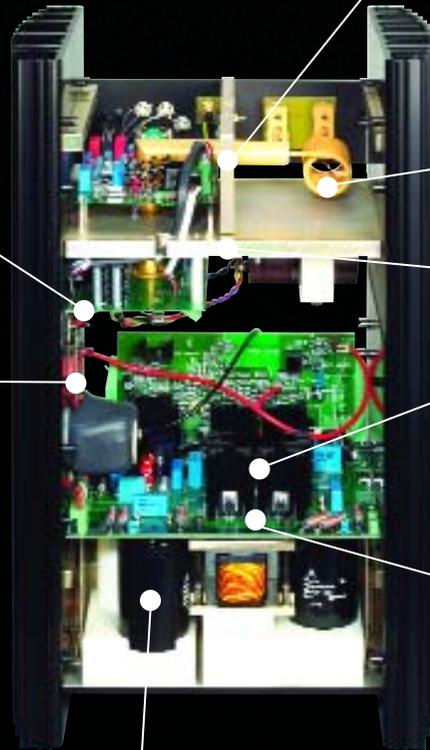
Components used are industrial-grade. They are more tolerant to extremes of temperature and have a longer life than commercial-grade components.

Substantial eddy current and electrostatic shielding used throughout reduces noise coupling which lowers distortion.

Air-pressure activated power switch to minimise interference.

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

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



Gold-plated wound copper tube connected to speaker terminals lowers inductance.

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

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 isolates and shields functional areas improving power supply efficiency.

Fibreoptics are used for the standby/on light. This increases safety and minimises interference.

Large capacitors deliver extremely low Equivalent Series Resistance (ESR) enabling faster response time to signal, resulting in a more natural sound.

Beneath the elegant outer casing of a Halcro amplifier lies a combination of revolutionary circuitry, meticulous attention to detail and plain commonsense. Halcro's proprietary circuitry configuration is such a lateral step, it is not recognizable as that of an amplifier to many engineers. The power supply and audio compartments are physically separated and heavily shielded to retain purity of the signal. Levels of distortion and interference are a fraction of that of all other amplification technologies.

Total Harmonic Distortion is now less than 500 parts per billion at full power (20kHz). This is as close to perfection as the laws of physics will allow. It is also a fact of physics that 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.

## A quantum leap.

Halcro's Power Factor Corrected power supply is responsible for the reduction in interference. It delivers a seamless continuum of power, operating normally at any mains voltage between 85V and 270V rms without internal or external switches. It balances the incoming current and voltage waveforms so that they are identical and in-phase. Ambient inner detail, previously buried under low-level interference, is allowed to breathe. Not only does Halcro provide a clearer signal, it delivers with life-like speed. The power supply rail droop in the Halcro units is a fraction of that of a conventional power supply; hence a slew rate of 100V per microsecond at peak output voltage. The refresh rate is 1/115,000 of a second, compared with standard peak rectification power supplies that refresh approximately every 1/100th of a second.

The best way to truly understand the effects of these technological advancements is to simply listen to Halcro.

Over the past decade the Halcro Research and Development Team has perfected the quality of its products in both electronic and mechanical design through continual development and thorough testing. The flagship of Halcro's range is the dm88 monoblock amplifier. With a power rating of 270 Watts at 8 ohms (continuous), and up to 2.1 kW at peak, this amplifier has no equal.

With superior reliability and improved performance, the Halcro power amplifiers are a triumph of form and function. Wrapped in silky anodised aluminium with solid hardwood feet, these freestanding units complement any environment without overwhelming it.

## Power amplifiers

The power supply and amplification units are housed in completely separate compartments. This departure from the traditional 'one-box' format freed up the designers to create something approaching sculpture. Attention to detail extends as far as hiding all fasteners from sight. This innovative design received a 2002 Good Design Award from the Chicago Athenaeum: Museum of Architecture and Design; the oldest and most prestigious industrial design award in the USA.

They sound as good as they look



## dm88 monoblock amplifier

## dm78 monoblock amplifier

## dm38 stereo amplifier

- Operates at up to 2.1 kW at peak
- 270 Watts continuous into 8 ohms
- 500 Watts continuous into 4 ohms  
(Continuous - Halcro power ratings are measured at continuous power unlike many competitors who publish measurements tested at peak ratings)
- Distortion of less than 500 parts per billion at full power (20kHz). Immeasurable at normal listening levels.
- Four input options: Balance voltage input  
Unbalanced voltage input  
Minimal path voltage input  
Current input
- New universal power factor corrected power supply 85V - 270V RMS. Superior reliability with heavy shielding.
- Discrete codes for On/Standby trigger. This simplifies the remote control of the amplifier by another source component.
- Series and common mode filtering on the mains input
- Drives all loudspeakers, including electrostatics
- Solid Mahogany feet
- 7 year warranty

- Operates at up to 2.0 kW at peak
- 225 Watts continuous into 8 ohms
- 400 Watts continuous into 4 ohms  
(Continuous - Halcro power ratings are measured at continuous power unlike many competitors who publish measurements tested at peak ratings)
- Distortion of less than 1,000 parts per billion at full power (20kHz). Immeasurable at normal listening levels.
- Three input options: Balance voltage input  
Unbalanced voltage input  
Current input
- New universal power factor corrected power supply 85V - 270V RMS. Superior reliability with heavy shielding.
- Series and common mode filtering on the mains input
- Drives all loudspeakers, including electrostatics
- Solid Mahogany feet
- 5 year warranty

- Operates at up to 1.8 kW at peak
- 180 Watts continuous into 8 ohms per channel
- 350 Watts continuous into 4 ohms per channel  
(Continuous - Halcro power ratings are measured at continuous power unlike many competitors who publish measurements tested at peak ratings)
- Distortion of less than 3,000 parts per billion at full power (20kHz). Immeasurable at normal listening levels.
- Three input options: Balance voltage input  
Unbalanced voltage input  
Current input
- Power factor corrected power supply
- Discrete codes for On/Standby trigger. This simplifies the remote control of the amplifier by another source component.
- Series and common mode filtering on the mains input
- Drives all loudspeakers, including electrostatics
- Solid Mahogany feet
- 5 year warranty

Given the quantum leap in sound reproduction quality delivered by a Halcro power amplifier, it is only logical that other elements of the signal chain need to be of the same high standards. Hence the range of Halcro preamplifiers.

Levels of THD and IM distortion are so low that they are immeasurable. Noise specifications are also exceptionally low.

As with the power amplifiers, softer forms and textures are used for the outer casing. Fasteners are concealed and the heatsinks are integrated into the external form to maintain clean simple lines. The volume and input selector knobs use a unique magnetic incremental indexing mechanism developed to provide a very subtle and reliable indexing action. The knobs and buttons are finished in the same soft textural finish as the pillars.

## Preamplifiers

The dm10 includes a reference quality phono stage which allows for cartridge loading adjustment, with continuously variable capacitance and resistance, which means you can precisely calibrate the cartridge to your system.

The remote controls are machined from an aluminum extrusion and sit comfortably in your hand with a small array of buttons falling within the natural sweep of the thumb.

Every effort has been made to keep this product free of unnecessary complexity.



## dm10 preamplifier

Balance, mute, phase invert, and mono functions all on the front panel, as well as on the remote control

5V DC trigger, to turn Halcro amplifiers on and off in conjunction with the preamp

All input sockets can be programmed for any source

Power supply and audio section are heavily shielded

Reference quality phono stage with continuously variable cartridge loading adjustment

RCA voltage & current inputs

XLR voltage inputs

RCA voltage & current outputs

Headphone amplifier

5 year warranty



## dm8 preamplifier

Balance, mute and phase invert functions all on the front panel, as well as on the remote control

5V DC trigger, to turn Halcro amplifiers on and off in conjunction with the preamp

All input sockets can be programmed for any source

RCA voltage & current inputs

XLR voltage inputs

RCA voltage & current outputs

4 year warranty

Each preamplifier comes with a full function remote control housed in a finely textured aluminum extrusion.



dm10



dm8

"They are truly the closest design yet to the ideal of a straight wire with gain. They simply present truthfully what was recorded without editorializing. As a recording engineer I believe that is the highest praise one can bestow on any audio component."

Peter McGrath - Recording Engineer, Harmonia Mundi.

)))HALCRO

"Stereophile" (USA)

*'2002 Product of The Year'*

"Stereophile" (USA)

*'2002 Amplifier of The Year'*

"Robb Report" (USA)  
2002 Best of the Best Award 2002

*'Best Audio Equipment'*

Chicago Athenaeum:  
Museum of Architecture and Design

*'Good Design Award 2002'*

"Stereo Magazine" (Japan)  
2002 Best Buy Component Awards

*'Best Buy in the Power Amplifier category above 1 million yen'*

*'Halcro Does it Again, With The dm38 Amp'*

"Stereophile" (USA)  
Front Cover,  
October 2004

"FM Fan" (Japan) Audio  
Best Buy 2001

*'No.1 Power Amplifier in all categories'*

"Radio Technique" (Japan)  
Best Stereo Component  
Grand Prix 2001 Awards

*'Grand Prix Award for No.1 Power Amplifier in all price categories'*

"Super AV" magazine  
(Hong Kong)

*'The Outstanding Power Amplifier 2001'*

"Hi Fi Review" magazine  
(Hong Kong)

*'Product Of The Year 2001'*

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