

PRESENTATION

You have acquired a MIMETISM electronics component, and would express our thanks for your choice. It is a high quality piece of equipment, designed and manufactured by a team of music-loving technicians with more than a forty years of total experience in high fidelity sound reproducing equipment.

For true and accurate reproduction of music is still full of mysterious realities that are rebellious to scientific measurement. Not that MIMETISM believe in any form of magic. Simply the human ear is much more sensitive to many parameters than the most elaborate measuring instrument of today. Which, by the way, also applies to the eye and the nose.

Which is why your MIMETISM component rests on a solid technical foundation both from a design standpoint and from an execution point of view. But it would fall far short of the result that music lovers worldwide have come to expect from MIMETISM a long time over a long time if it had not subsequently gone through a lengthy refinement process borne out of numerous listening sessions.

Fact is that these sessions, conducted in blind and double blind mode by multiple experienced listeners in diverse settings, evidence differences that lead to development paths that measurements alone cannot explain.

Which is how your MIMETISM equipment ends up with many refinements in areas that may seem minor, but which, when implemented in combination add up to an unquestionable and substantial increase in fidelity and listening enjoyment. As such, the choice of components, their number, the layout of each circuit board, the mechanical assembly and vibration issues, the wiring and electrical connections are all areas MIMETISM knows to be critical to the end result. You will find evidence of this painstaking and passionate work: your equipment is wired throughout in high resolution Cable, connectors are gold plated, power supplies are oversized and sport multiple by-passes, capacitors are made of polypropylene and styroflex, printed circuit boards are two-sided with metallized holes, transformers are low radiation toroidal designs, feet are massive turned metal, chassis are heavy metal and fitted with damping material. Your component is shielded against electro-magnetic induction with shielding material and plates. This list could go on and on...

But for you, what we feel matters most is that your new piece of equipment give you the pleasure you are entitled to, and that for many years to come. That is what MIMETISM and its specialized dealers are committed to.



TECHNICAL DATA with AUDIO PRECISION analyser

Output digital S/PDIF , 75 Ω , 0.5 V , RCA
AES/EBU , 110 Ω , 2.5 V , XLR

Input Signal 1 KHz sinus @ 16 bit / 44.1 KHz
Harmonic Distortion (THD+N)
- 0.0009 % @ 0 dB FS (Full Scale)
- 0.0090 % @ -20 dB FS
- 0.0900 % @ -40 dB FS
- 0.9000 % @ -60 dB FS

Dynamic (THD+N @ -60 dB FS) 100 dB
Residual noise 20 Hz to 22 KHz unmeasurable
AES/EBU, 110 Ω , 5 V , on XLR

MIMETISM 20.1 CD PLAYER

Output analog unbalanced , 2 Vrms , RCA
either balanced , 2 Vrms , XLR

Input signal 1 KHz sinus @ 16 bit / 44.1 KHz
Harmonic Distorsion (THD+N)
- 0.0012 % @ 0 dB FS
- 0.0090 % @ -20 dB FS
- 0.0900 % @ -40 dB FS
- 0.9000 % @ -60 dB FS

Dynamic (THD+N @ -60 dB FS) 100 dB
Residual noise 20 Hz to 22 KHz 3.4 μ V @ 4 Vrms, XLR
Signal to noise ratio 115 dB

MIMETISM AUDIO policy is one of continuous improvement. Design and specifications are therefore subject to change without prior notice.
For more informations, viste the web site MIMETISM : <http://www.mimetism.com> - Email : info@mimetism.com - January 2006



CD Player MIMETISM 20.1

**Drive ATAPI IDE - Asynchronous sample rate converter T.I.SRC4190 / 44.1Khz to 192 Khz
 Converter D/A - WOLSON Delta-sigma WM8740 - Transformer TORIQUE 100VA
 Analog connections unbalanced - balanced - Digital connections - S/PDIF - AES/EBU**

The serial data from the ATAPI drive is streamed into a Crystal CS8416, a Digital Audio Receiver that supports audio data with sample rates up to 192 kHz, with an extremely low jitter performance of 200 ps. It has an extremely low jitter clock recovery mechanism that yields a very clean recovered clock from the incoming audio stream.

The demultiplexed signal is then fed into a T.I. SRC4190. The SRC4190 is a leading edge asynchronous sample rate converter, which combines a wide input-to-output sampling ratio with outstanding dynamic range and low distortion. The T.I. resamples the signal from 44.1Khz to 192 Khz, regardless of the jitter in the reception stage, and presents it to the Digital to Analog Converter, a Wolfson microelectronics WM8740.

The WM8740 is a very high performance stereo DAC supporting data input word lengths from 16 to 24-bits and sampling rates up to 192kHz. The WM8740 features a multi-bit sigma delta modulator, for a significant reduction in the high frequency, and a very well done voltage/current conversion.

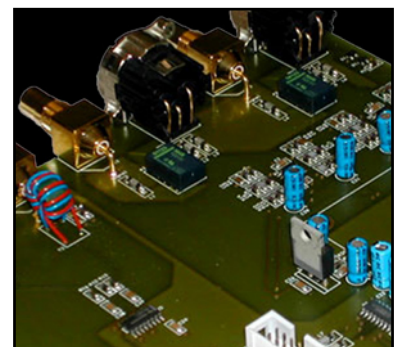
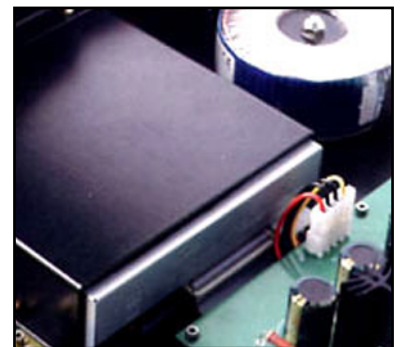
As the DAC provides a balanced out, the output stages are cross differential for the symmetrical output and simple differential for the RCA. The output stage uses FET on the ingress for a very low noise, and the reconstruction filters on the signal path are of the first order. The digital output use a fast line driver MC3487. A pair of Home made pair transformers isolate the symmetrical AESBU and the asymmetrical SP-DIF outputs from the power supply of the digital part and the chassis of the device. The phase inverters operate in the digital domain with no additional noise.

The management of the ATAPI bus, of the graphical display and of the digital signals is performed by a MICROCHIP PIC 18F8720 microchip that can be reprogrammed from the RS 232 port on the back of the player.

A 100VA toroidal transformer with low induction powers a supply card with 6 separately regulated outputs. The card features a SCHAFFNER A/C filter and LOW DROP circuits. A removable STRAP isolates the power grounds from the earth (to eventually avoid mass loops).

The symmetrical plugs are from NEUTRIK. The RCA connectors are built on A.S.M. specifications (teflons isolators and gold plated connectors). The unit is designed for main power of 100V-120v-240v 50/60hz. The drive is attached to a U-formed chassis with upper and lower side dampening, using 2 densities of rubber foam.

The front plate is a 10mm thick brushed aluminum piece with 2 home made push controllers, designed and built by ASM. The chassis is made of 10/15 mm processed iron. The top side is made of 10/15 mm anodized aluminum. A dampening board filters out all parasite vibrations. Stands and Controllers are pure aluminum (60 mm Ø), and the stands are designed to receive the SOUND CARE dampeners.



TECHNICAL DATA with AUDIO PRECISION analyser

Output digital S/PDIF , 75 Ω , 0.5 V , RCA
 AES/EBU , 110 Ω , 2.5 V , XLR

Input Signal 1 KHz sinus @ 16 bit / 44.1 KHz
 Harmonic Distortion (THD+N)
 - 0.0009 % @ 0 dB FS (Full Scale)
 - 0.0090 % @ -20 dB FS
 - 0.0900 % @ -40 dB FS
 - 0.9000 % @ -60 dB FS

Dynamic (THD+N @ -60 dB FS) 100 dB
 Residual noise 20 Hz to 22 KHz unmeasurable
 AES/EBU, 110 Ω , 5 V , on XLR

MIMETISM 20.1 CD PLAYER

Output analog unbalanced , 2 Vrms , RCA
 either balanced , 2 Vrms , XLR

Input signal 1 KHz sinus @ 16 bit / 44.1 KHz
 Harmonic Distorsion (THD+N)
 - 0.0012 % @ 0 dB FS
 - 0.0090 % @ -20 dB FS
 - 0.0900 % @ -40 dB FS
 - 0.9000 % @ -60 dB FS

Dynamic (THD+N @ -60 dB FS) 100 dB
 Residual noise 20 Hz to 22 KHz 3.4µV @ 4 Vrms, XLR
 Signal to noise ratio 115 dB

MIMETISM AUDIO policy is one of continuous improvement. Design and specifications are therefore subject to change without prior notice. For more informations, viste the web site MIMETISM : <http://www.mimetism.com> - Email : info@mimetism.com - January 2006