MONDIAL DESIGNS LIMITED
Two Elm Street, Ardsley, New York 10502 • (914) 693-8008 Onsumer Electronics
Design and Engineering
Awards 1987 and 1988 On exhibition: Lincoln Center Museum 1989 Smithsonian Institute 1989 ... he Aragon preamp is now my choice for under £1,500 (\$2,700).

HiFi News & Record Reviews March 1989

ondial's Aragon 4004 is simply the biggest bargain in high end audio.

HiFi News & Record Reviews June 1988

rom my initial audition I
was immediately impressed
by the Aragon's excellent
differentiation of inner detail.

Stereophile Magazine December 1987

hat's the kind of design it is: it sounds right from the very first note. More correctly, it doesn't really sound much at all.

HiFi Answers December 1988

n terms of price and performance, the Aragon 24K and 4004 combination is currently *the bargain* of the high end market.

Audiophile Magazine January 1989 hassis designs are by Robbii Wessen. His historic decision to create sculptures housing the electronic components has been acclaimed by the press in Europe, Asia and America.

ragon audio
components are made in
America in accordance with
U.S. military specifications
by military and medical
contractors. The only audio
components in the world
manufactured to such
high standards.

artial list of audio companies who purchased Aragon for their research and development work: Apogee, Duntech, Magnepan, Martin-Logan, Monster Cable, Van den Hul USA, VPI, Bainbridge Records, Warner, Electra & Asylum Records

POWER AMPLIFIERS

The goal was to design power amplifiers that have both the highest sound quality and the power supply capable of controlling any loudspeaker. The world press has acknowledged that the Aragon 4004 and 2004 amplifiers have achieved their intended goal. They are ranked amongst the handful of amplifiers considered the finest.

The 100 watt per channel, 2004's power supply is larger than any 200 watt per channel amplifier under \$1,500. The two torodial transformers found in the dual mono 4004 are the same type, size and output as in amplifiers several times the 4004's price. Aragon's enormous power supplies are capable of driving any speaker load no matter how low the impedence. They will even drive a dead short!

To create one of the world's most acclaimed amplifiers requires more than brute power, it requires refined sound. To achieve that goal requires a no compromise approach to parts selection and circuit design.

The circuitry, construction and componentry are the same in the 2004 and 4004. A guad array transistor package is utilized in the pre driver stage, yielding matched transistors and equal temperature coefficients. The output transistors are matched to over 30 categories, more stringent than any other audio manufacturer.

The torodial power transformers are annealed in nitrogen. The steel of the core is selected by grain structure. Gold plated connectors from Tiffany are used for the inputs. The output connectors are by Monster Cable.

Circuit heat dissipation is by convection. The unique design allows for proper cooling even when a shelf or component is placed on top of an Aragon amplifier.



Rated power 2004 / 4004-100 / 200 watts per channel continuous, both channels driven into 8 ohms 20 Hz to 20,000 Hz at no more than 0.06% THD.

200 / 400 watts per channel continuous, both channels driven into 4 ohms 20 Hz to 20,000 Hz.

Specifications for both 4004 and 2004

A-weighted signal ...120 dB to noise ratio...

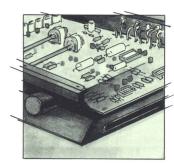
referenced to rated power into 8 ohms

Damping factor . better than 200 for 20 Hz

to 20.000 Hz

Input Impedence 22k ohms Dimensions $19 \times 14 \times 6.5$ in. Weight 4004 - 65 lbs.





PREAMP Signal to Noise High Level Inputs95dB (A-wt'd) Signal to Noise Moving Coil 70dB (A-wt'd) **RIAA Tracking** 20 Hz to 20k Hz \dots \pm 0.25 dB High Level Voltage Swing 8 V rms Input Impedence (High Level) 20k ohms Input Impedence (MC Phono) ... 10 to 47k ohms Inputs6 Tape Inputs and Outputs 2 Dimensions $19 \times 14 \times 3\frac{1}{2}$ in. Dimensions . . $5 \times 5 \times 9\%$ in.

Weight 12 lbs.

PREAMPLIFIER

The 24K's no compromise design gained it immediate acceptance as one of the world's foremost preamps. Known for its musicality and extended frequency response, this Aragon was almost two years of pure design and engineering.

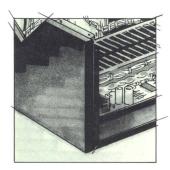
The A.C. power supply is external for reduced noise and hum. It connects to the 24K via a Swiss made, gold plated contact, XLR. The D.C. supply is fully dual mono. Each channel of each stage has its own independent power supply. The 11 pair of input output connectors are chassis mount, gold plated, from Tiffany for sonic superiority and reliability. All wiring is oxygen free copper with teflon dielectric, the finest dielectric made. Component soldering is done to military standards. The switches are military grade with silver to silver contacts. The volume potentiometer is recognized as the industry standard.

All circuitry is fully discrete. Each stage's topology is expressly designed for its intended use—versus the usual approach of using one circuit topology, for all stages, with varying amounts of gain.

The moving coil section allows for a virtually unlimited choice of cartridge impedence loading at the flick of a switch. The front panel and knobs are machined from solid aluminum. There is no other preamp, anywhere near the 24K in price, that gives all this.

The IPS, an optional isolated power supply, gives the 24K a total of 30,000 mfd of capacitance. This, combined with a large transformer, yields superior low frequency performance and localization. The IPS can also upgrade the D2A.





D/A CONVERTER

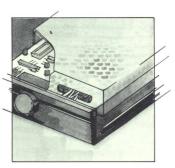
Converting digital code to analog wave forms is the expertise of Aragon's D2A: designed in conjunction with Theta Digital Corporation, which is acknowledged by the world press as having set the standard in D/A conversion. The D2A has two separate internal circuit boards. One is a digital section encased in a metal shield to prevent radiation into the analog section. The other is an all discrete class A dual mono analog circuit board. An external power supply converts A.C. to D.C.

The D2A's digital board is designed to receive the digital audio output of any CD player, DAT or Video source. This bit stream is then precisely reclocked, reducing timing errors to under 1 nanosecond, precisely maintaining the original phase of the recording. The 8 x 18 bit professional DAC's are the same used by the recording industry to create analog recordings from digital. These exclusive DAC's then feed Aragon's unique digital to phono analog circuit board. Instead of utilizing a line section, as in all other CD players or D/A convertors, the D2A uses Aragon's phono circuit topology. This extremely fast circuit is capable of rapidly responding to the DAC's output. In addition, the phono circuit yields very low noise and wide dynamic range for a musicality previously unheard from digital sources.

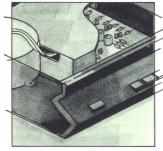
Eleven separate D.C. power supplies provide completely dual mono operation for the analog section and the 18 bit DAC's.

Finally, due to the rather rapid advancements occurring in digital, all the digital IC's are easily removable for upgrade, as is the entire digital board. This assures you that the Aragon D2A will never be obsolete.

D/A
Signal to
Noise 110 dB (A-wt'd)
THD0.009
Frequency
Response 2 Hz to 20k Hz
\pm 0.3 dB
Oversampling Rate 8X
Number of Bits 18
Number of Inputs
Digital Tape Out
Phase 0° or 180°
selectable by remote
Dimensions 19 \times 14 \times 2½ in.
Weight 14 lbs.







	Tuner FM
	Sensitivity 10.8 dBf, IHF
	Sensitivity 10.8 dBf, IHF Separation 50dB at 1k Hz
	Signal
	Strength 37.6 at 50dB
-	Capture Ratio 1.0
-	Selectivity 66 dB alternate channel
	THD Stereo 0.09 at 1k Hz 0.12 at 6k Hz
	Dimensions 19 \times 14 \times 3 in .
	Weight 15 lbs

TUNER

Any tuner is limited by the quality of broadcast transmitted. The broadcasts are rarely, if ever, as good a source as phono, CD or tape. We could have created a tuner for the rare quality broadcast that over 99% of the population will never receive. However, that would be a very expensive tuner that wouldn't yield superior results for the vast majority of users. In other words, it would be contrary to the Aragon concept of creating components of exceptional value.

Understanding that a tuner is primarily for background music, the Aragon project team decided to create tuners with useful features. Features such as AM and FM. 16 pre sets for convenient channel selection. A seek button that allows you to easily find the music that best suits your mood.

In addition to features however, attaining the best possible sound quality from the broadcast is most important. To achieve this, the Aragon tuner preserves the signal that can easily be deteriorated by poor input.

All input connectors are gold plated, and the outputs are the same high quality Tiffany's found on all Aragon components. Once the signal has entered the tuner it needs to be protected from R.F. interference. To accomplish this the Aragon circuit board is encased in a copper lined shield. The transformer is enclosed in steel to protect the circuitry from stray magnetic fields.

Preserving the original signal while yielding the utmost in convenience makes the Aragon tuner unique.

4T2