

# eGo phase 4

## Integrated cd audio player

While most of cd players of the same grade are built on tray loader mechanisms or computer cd-rom drives, eGo phase 4 features a true "top loading" concept. To achieve this performance, the designers have installed a renowned read out system from Philips on a 4 mm thick aluminum platform. As with the finest analogue turntables, this assembling is mounted on a sub-chassis thanks to a three-point-suspension. The whole mechanism is superbly finished with a special coating improving attenuation of resonances.

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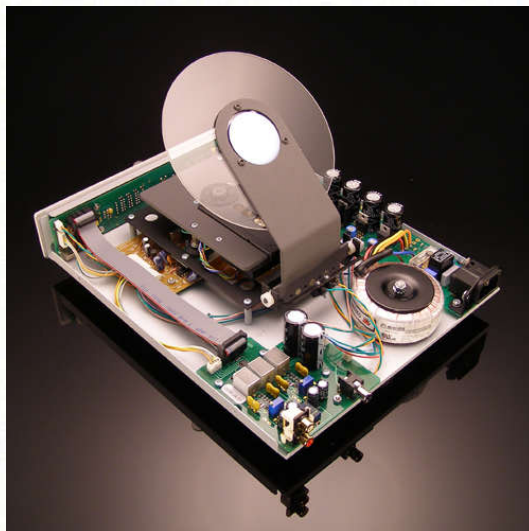
Of course, electronics meets very high level requirements too. The digital-analog section is built on a 24 bit / 96KHz converter designed by Burr Brown. The Delta Sigma modulator is based on a 5-level amplitude quantizer and a 3rd-order noise shaper. This advanced topology has the advantage of stability and clock jitter over the typical one-bit solution. With an internal 8x interpolating filter, measurements and sonic performances are unusual at this point. The analog section includes a low-phase-shift filter and the output amplifier. As a natural transcription of sound needs a perfect control of the harmonic spectrum of the signal, a topology using JFETs and bipolar transistors operating in Class A is preferred. Energy is provided by an oversized toroidal transformer. In order to avoid interference between each section, the power supply includes several series-regulators with independent filtering cells. Thanks to the famous "One Touch Control" concept, eGo phase 4 features an attractive timeless ergonomic design. Finally, with a sound which could be almost qualified as "analog sound", eGo phase 4 offers an exceptional ratio performance / price. eGo phase 4 is dedicated to music lovers who are looking for high grade compact solution.

## A unique concept

Energy is provided by an oversized toroidal transformer coupled to an efficient AC mains input filter.

In order to avoid interference between servo-board, control board, D/A section and analog stages, the power supply includes multiple series-regulators with independent filtering cells.

The topology of eGo phase4 is based on unique layouts and a clever use of SMD technology. Only high grade and renowned components are used.



The read out / transport table is mounted on a sub-chassis thanks to a 3-point-suspension. The whole mechanism is superbly finished with a special coating improving attenuation of resonances.

The D/A section offers high accuracy and a very short signal path.

Output amplifiers use JFETs and bipolar transistors operating in Class A.

eGo phase4 is full controlled with the unique OTC button and universalis-series remote control handsets.

The "top loading" concept features an attractive design and high level performances.

## Technical features

### MECHANISM SECTION

Read out mechanism :	VAM 1202/12 Philips	With aluminium platform
Suspension :	3 points	Mounted on sub-chassis
Loading :	Top Loading	With ergonomic clamp arm lever
Suitable discs :	CD audio, CD-R	8 & 12 cm

### ANALOG / DIGITAL SECTION

Conversion :	Delta-Sigma	Multilevel
Converter resolution :	24 bits	Max
Converter sampling frequency :	96 kHz	Max
Interpolating digital filter :	8 x	Oversampling
Digital de-emphasis :	yes	Manual control
Dynamic :	95 dB	A weighted
Signal to noise ration :	95 dB	A weighted
Total harmonic distortion :	0,025 %	@ 1 kHz, 0 dBFS
Frequency response :	20 Hz - 20 kHz	- 1 dB
Analog filter :	2 <sup>o</sup> order	Bessel

### ANALOG SECTION

Output impedance :	50 ohms	@ 1 KHz
Nominal level :	2 Vrms	@ 1 KHz, - 18 dBFS

### OUTPUT

Analog :	(1) Cinch/RCA stereo output
Digital :	(1) Cinch/RCA S/PDIF 44.1 kHz output

### MISCELLANEOUS

Power requirements :	(1) IEC - standard AC mains socket - factory set for destination country only	
Power consumption :	3,5 VA / 13 VA	Standby mode / operating mode
Dimensions :	240 x 80 x 290 mm	W x H x D
Clamp arm lever upward course :	90 mm	(9,45 x 3,15 x 11,42")
Weight :	3,5 kg	(3,54") (8 lb)
Options :	universalis remote control handset Equipod decoupling set	