



Loving Music

# Clearaudio PRESS – KIT English



# Turntables

## Statement



Every market needs a leader...

**"Take the best and make it better, only then will it be good enough..."**

Based on this philosophy Clearaudio has been setting new standards in analogue music reproduction for more than 30 years. With their common love for music, Peter, Robert, Patrick and Veronika Suchy have designed an exceptional new turntable that is breaking the boundaries and rules of music reproduction. The result of their tireless passion and commitment is the outstanding Statement Turntable and the tangential Statement Tonearm TT1, to reproduce music from LP records at the highest possible level.

Clearaudio electronic GmbH

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Made in Germany

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## Performance

**Clearaudio** sets another benchmark with the introduction of the amazing Performance turntable as a complete matched package: Only Clearaudio offer you the complete - *Performance* - and at a sensational price!

With the Performance Clearaudio enters a new market area of the very highest quality of fit and forget, easy to use product.

The package is specially created for music lovers who are searching for an unbeatable listening experience, while avoiding compatibility problems or the need for specialist technical help. High quality precision turntables need expertise in matching their component parts, but Clearaudio do this at the design stage, ensuring that this combination always leads to highly addictive listening sessions.

The Performance package consists of:

- Performance* - Turntable
  - + *Satisfy* Carbon - Tonearm
  - + *Maestro* - MM cartridge
  - + CMB - Magnetic bearing
- 
- = the complete *Performance*



**Performance Black Pearl**

## Performance Pearl



### Technical specifications:

Construction principle: Resonance-optimised chassis, highly compressed wood with aluminium frame sandwiched between two artificial stone-plates (Staron is a registered Trademark of Samsung).

Speed range: 33 1/3 RPM or 45 RPM

Drive unit: Decoupled motor-unit, synchronous motor, belt-drive

Rumble: DIN IEC 98 by method A / 92dB

Bearing: Patented, inverted bearing and polished ceramic axle, incl. CMB-magnetic-bearing-technology

Platter: GS-PMMA / acryl, CNC-precision-cut, height 40mm, dynamically balanced

Speed variation: +/- 0.1 %

Weight: approx. 10kg incl. motor

Dimensions: approx. 420mm x 330mm x 130mm

**Clearaudio electronic GmbH**

## Champion Wood

Welcome to the world of artistic creation executed with the finest engineering that is the Clearaudio "Champion". New to the elegant Clearaudio Champion series is the new Champion Wood. The Panzerholz (a resonance-free bullet proof wood) chassis, sandwiched between aluminium top and bottom plates elevates the Champion Wood to the highest levels of music reproduction.



### Technical specifications:

Construction principle:	Geometrically resonance-optimised chassis, belt drive	Speed variation:	+/- 0.1 %
Speed range:	33 1/3 RPM / 45 RPM	Weight:	Approx. 7kg, with motor
Drive unit:	Stand-alone synchronous motor	Dimensions:	Approx. 470mm x 390mm x 140mm
Bearing:	Patented, inverted bearing with precision polished ball <b>CMB upgrade optional</b>	Warranty:	5 years*
Platter:	Silicon acrylic, CNC-precision-cut, dynamically balanced		

## Emotion Black

Like it's forebears, the award-winning Emotion and the Bluemotion, the Emotion Black takes its position as leader in this price class with its unbeatable quality. The resonance-minimized shape combined with the stand-alone motor unit guarantees

the total isolation of resonances from the turntable chassis providing the best music reproduction in a life-like soundstage. A high precision, maintenance free sintered bronze bearing completes the analogue pleasure.

### Technical specifications:

Construction principle:	Resonance-optimised chassis shape, belt drive	Platter:	GS-PMMA, acrylic, precision CNC machined surface
Speed possibilities:	33 1/3 RPM / 45 RPM (78 RPM pulley optional)	Speed variation:	+/- 0.2 %
Drive unit:	Decoupled synchronous motor in a massive metal housing	Dimensions:	Approx. 400mm x 330mm x 150mm
Bearing:	Hardened steel, polished sintered bronze insert	Warranty:	3 years*

\* Only if the warranty card is filled out correctly and sent back to Clearaudio.

### Clearaudio electronic GmbH

# Electronics

## Nano – Phono



The **Clearaudio** NANO-PHONO defines a **new world standard**. Real High-End performance at a truly budget price: Experts would say this is not possible. However Clearaudio have achieved this breakthrough by using a new design perspective, the solution is simple, elegant and astonishingly effective. The printed circuit board is precisely embedded within a massive precision-CNC-machined aluminium block that forms the complete chassis. The result: Resonances are not formed in the first place! The miniature size of the Nano-Phono ensures outstanding technical results and unheard of quietness within its price range!

The quality of the Nano-Phono is obvious. The latest sophisticated surface-mount

technology is used in conjunction with precision electronic components, such as BURR-BROWN (Texas Instruments) integrated circuits, and extremely short signal paths leading to a pure, hum and noise-free music reproduction. The fully dual-mono design requires separate setting of the left and right channels for input loading, gain control and selection between MC and MM modes, extracting the best results from virtually any cartridge!

### Technical specifications:

- MM and MC mode; switched by jumpers on the bottom of the unit
- Almost any cartridge can be used, through the use of input impedance jumpers:  
50Ω, 100Ω, 400Ω, 1kΩ, 47kΩ
- Gain control from 34 to 67dB
- Frequency response from 10Hz – 100kHz
- SMD technology
- External power supply (prevents disturbances from the power line)
- Gold plated RCA jacks
- High end components
- Fully Dual Mono circuit design
- Subsonic filter optional
- Dimensions: W x D x H: 80mm x 100mm x 20mm
- Warranty: 3 years \*
- Precision Made in Germany

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## Azimuth Optimizer

The Azimuth Optimizer is a precision measurement unit that for the first time makes it possible to exactly align the azimuth of the cartridge diamond (stylus) position. The stylus azimuth (the vertical position of the cartridge's diamond when viewed from the front) is the main influence on channel balance, frequency response and stereo separation of a stereo phono cartridge. Visual adjustment of azimuth is not accurate enough to ensure perfect stylus alignment. Exact azimuth can only be determined when

using a precision measuring instrument such as the Clearaudio Azimuth Optimizer. Furthermore a High-End phonostage is built in, so that the sonic effect of adjustment may be compared against the scientific measurement.

An integrated headphone amplifier makes mobile use of the Azimuth Optimizer possible.

Any headphones with an impedance of between 100 ohms and 600 ohms can be used.

### Technical specifications:

Operating Voltage: 24V DC stabilised with power supply  
Input: 100-240V AC / 47-63Hz  
Inputs and Outputs: RCA-sockets, unsymmetrical

### Phonostage:

Amplification: MM: 40dB, MC: 60dB  
Channel separation: > 80dB  
Distortion factor: (THD+N): < 0.01% / 1kHz  
Input impedance / Capacitance: MM: 47k $\Omega$  / 220pF  
MC: 400 $\Omega$  / 220pF  
Output impedance: 100 $\Omega$   
Frequency response: 20Hz – 70kHz /-3dB  
RIAA: RIAA +/- 0.5dB deviation

### Headphone amplifier:

Amplification: 10dB  
Headphone impedance: 100 – 600 $\Omega$   
Connection: 6.3 mm RCA jack

### Measurement unit:

Indication range: -50 to +6dB, accuracy +/- 0.2dB  
Maximum measurement. 19.99mV  
Noise filter: from 200Hz / trans conductance 12dB per octave  
(valid only for right channel when unit is in measurement use)  
Dimensions: H x W x D 47mm x 102mm x 190mm  
Weight: Azimuth Optimizer: 750g, Power supply: 150g



## Accu "+" Phonostage Power Supply

### The NEW Clearaudio Phonostage Generation with Accu Power Supply

Throughout 2007 the new and improved "+" range of phonostages will be introduced.

Cutting-edge high technology selected and formatted NiMH-High Performance batteries are combined into the Clearaudio Accu+ power supply unit which can be used to upgrade the Clearaudio "+" series phonostages to run on the purest DC Voltage possible.

Battery power ensures that no noise or distortion from the mains supply can pollute the pure music signal thereby granting the

highest quality musical reproduction and pleasure.

Currently available in "+" form are the following Clearaudio phonostages: Basic+, Symphono+ and Balance +.

Through innovative battery technology the Clearaudio ACCU+ Power Supply elevates the Clearaudio "+" phonostages to a new standard of excellence.



Accu-Power "+"  
Power supply and charging unit



Balance "+"



Symphono "+"



Basic "+"

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# MC Pick-up cartridge

## Talisman

Entry-level MC cartridges have a new champion. It is called TALISMANN. With this completely new cartridge design Clearaudio established yet another performance benchmark. The TALISMANN offers the enthusiast unbeatable performance for the price. The resolution and dynamic range, the full-bodied weight and warmth, and the shimmering brilliance sets standards that even higher priced cartridges from other manufacturers cannot reach.

### How is this possible?

The philosophy of the TALISMANN is "Ultimate refinement". Painstaking care is taken to ensure that manufacturing errors do not occur and therefore do not have to be corrected afterwards, which explains the extremely attractive retail price.

Innovative ideas formed from the know-how involved in cartridge manufacture combined with that of musical instrument manufacturing are applied with precise German engineering and craftsmanship. The hand polished ebony tone-wood body is slightly rounded, which leads to a resonance free construction. High impedance together with high output voltage ensures noise free musical reproduction. The ruler-flat frequency response from 20Hz to 20kHz grants a firm realistic bass, uncoloured midrange and natural high frequencies. To sum up: Thanks to Clearaudio, music lovers on a tight budget can say goodbye to compromise.



### Technical specifications:

- |                               |                            |
|-------------------------------|----------------------------|
| - Stylus shape:               | elliptical                 |
| - Cartridge weight:           | 11g                        |
| - Recommended tracking force: | 2.4g                       |
| - Compliance:                 | $6 \times 10^{-6}$ cm/dyne |
| - Output voltage:             | 0.5mV at 5cm/s             |
| - Cartridge Impedance:        | 45Ω                        |
| - Cartridge body:             | ebony tone wood            |
| - Warranty:                   | 2 years*                   |

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## Accessories

### Double Smart Matrix



The Double Smart Matrix is based on a Clearaudio patent and is the most cost-effective record cleaning machine that cleans both LP sides at once.

The difference to the bigger fully automatic Double Matrix is the manually applied cleaning fluid.



#### Smart Seal Puck

The perfect match for the Clearaudio Smart Matrix and similar record cleaning machines. This innovative magnetic puck protects the record label from moisture and accidental damage during cleaning.

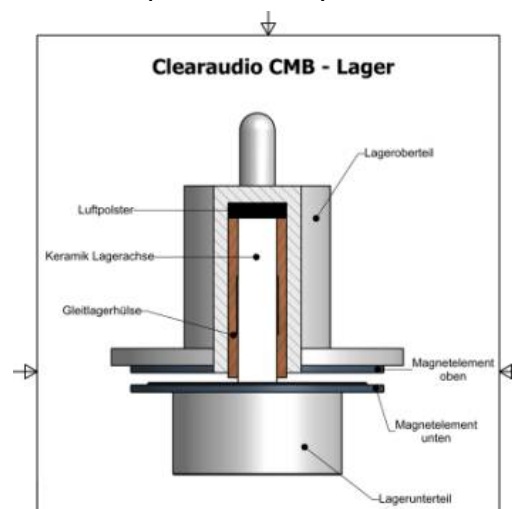
### Ceramic-Magnetic-Bearing (CMB)



The Clearaudio **CMB** (Ceramic Magnetic Bearing) is a result of long-term research and development and is based on a Clearaudio-patent. Two aligned magnet fields, one on top of the other, with the same polarisation, are working in a small homogeneous field while rejecting each other. The magnetic fields are critically shielded from the outside through very sophisticated materials. A high precision ceramic vertical axle fits perfectly into a bronze bearing. This perfect fit is essential and can only be achieved through the highest precision hand polishing. High-performance synthetic oil is used for lubrication. The combination of these carefully selected components produces the

effect of the platter almost floating by itself on an air cushion, and not on a ball bearing or bearing point.

The results of this magnetic bearing are one of the lowest frictions in turntable bearing design and until now, un-reached rumble measurements, and a new standard in unbeatable speed accuracy.



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