



Photo : François Passerini

**Press kit**

**ORIGINE B1**

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**neodio**

**PRESS SERVICE**

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# Background

«Parasite» sound is present in most Hi-Fi and home cinema systems, and can be described as follows:

- A sensation of dissonance with acoustic instruments, with unpleasant resonances on certain notes. Concert instruments tend not to sound good, more like student instruments, with no harmonic richness.
- A marked tonal imbalance with either bland sound quality that favours high notes, or muffled or thick sound with the emphasis on low notes. Each element of the system, including the cables, seems to have its own sound signature.
- A sensation of loss of the concert hall ambience between notes, as if the acoustics are too dull. This is due to the loss of the micro-signals that are so important to the ear. The ends of notes are shortened and not the same as when one hears live sound.
- A sensation of hardness, stress and confusion on loud notes, reflecting an inability to transcribe the dynamic differences.
- A very flat sound image, with no height or depth, far from the 3D effect of which stereo sound is capable when it is coupled with good sound recordings.

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## A constant questioning

On some days, the sound produced by a Hi-Fi system offers moments of pure grace: our favourite artists are with us in the room, with all the atmosphere of a live concert. In such instances, the realism seems absolute. However, more often than not, there is something slightly artificial about Hi-Fi sound, even from a top-of-the-range system, that prevents us from really «connecting» to the music in question.

For many years, Stéphane Even was confronted with incomprehensible phenomena that seemed to contradict traditional approaches to the technology. Some observations seemed to have no rational explanation:

- Why do cables have a sound signature?
- Why is there no correlation between amplifiers' measured performances and their sound quality?
- Why does a Hi-Fi system not sound the same every day or at all times of the day?
- Why do the best performing Hi-Fi systems need to operate for hours before they sound good?

Until now, there has been very little technical explanation for these phenomena.



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## Challenging the usual technical solutions

This approach enabled Neodio to take several steps towards real high fidelity.

For the past fourteen years, Stéphane Even's research has focused on understanding the nature of the physical phenomena that really impact sound quality. He methodically studied and tested various technical areas. This research resulted in some innovative solutions, such as:

- Error corrections systems to combat thermal effects in amplifiers
- A non-quartz clock for analogue to digital conversion
- Mechanical damping solutions for chassis and cables
- A mains powerstrip with a non-electric filter.

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## 2015: discovery

After all these years devoted to the study of these anomalies, Neodio is now able to provide explanations and solutions. The deterioration in sound quality is due to specific vibration phenomena, outside the audio band, that propagate through solids, in cables, chassis and cabinets. Ultimately, they interact in the air with the sound that is being reproduced. This parasitic emission is responsible for a significant loss of definition.

The more one absorbs these parasitic effects in each element of the system, the better the resulting sound. The initial simplicity of this vibration phenomenon conceals a complexity in its propagation that we have managed to analyse and treat.



# ZERO VIBRATION TECHNOLOGY

## Zero Vibration technology

Zero Vibration technology (patent pending) provides a solution to this technical challenge, with a means of combating the harmful effects of vibrational interference.

The ORIGINE B1 anti-vibration mounting is the first product to incorporate Zero Vibration technology. It enables music lovers to significantly improve the sound quality of their Hi-Fi or home cinema system. It is a universal, scalable solution.

### RESULTS OBTAINED WITH ORIGINE B1

ORIGINE B1 is a product that absorbs and dissipates parasitic vibrations. Its patented Zero Vibration technology significantly increases the sound quality of any Hi-Fi or Home Cinema systems, from the most modest to the most sophisticated.

ORIGINE B1 provides:

- A clear improvement in relation to the five points described above
- The sensation of reconnecting with the essence of a recording
- A step towards a sound quality that focuses on the music rather than analysis of the sound
- A «broadband» effect that enhances the entire spectrum without a marked signature
- An absence of colouration and a superior sound signature with the correct cables, making it very versatile.

### A UNIVERSAL SOLUTION

#### Use under any equipment

The best configuration is to install equipment on three ORIGINE B1 supports. This will ensure that almost all of the parasitic vibrations are absorbed by the supports. In the case of column loudspeakers, four supports will give better stability, but will not necessarily give a greater improvement in sound quality than three supports.

#### Use on top of electronic equipment

In the case of a limited number of supports, the ORIGINE B1 can be installed head down on top of equipment in order to dissipate vibrations in the cabinet or chassis. ORIGINE B1 absorbs parasitic vibrations that are generated by electrical circuits. Corners constitute more direct vibration paths than the middle of covers. They enable parasite vibrations that are injected into the underside of the chassis by electronic circuits to be picked up. For electronic devices, a corner at the rear near the mains input is a good choice.



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## A SCALABLE SOLUTION

Hi-Fi enthusiasts can start with three supports, and then progress to a complete treatment under each piece of equipment. You will then be approaching your Hi-Fi system's optimal performance, within the limits of the acoustics of your listening space.

## COMMON CONFIGURATIONS

### Configuration 1: 3 ORIGINE B1s

The mains powerstrip, especially if it is metal, should be considered a priority. Use the first support for this, the second for the source and the third for the amplifier.

### Configuration 2: 6 ORIGINE B1s

3 supports under each speaker

### Configuration 3: 8 ORIGINE B1s

3 supports under each speaker + 2 supports under a metal mains powerstrip.

If the mains powerstrip is plastic, an alternative is to use the seventh support for the source, and the eighth for the amplifier.

### Configuration 4: 11 ORIGINE B1s

3 supports for each speaker + 2 supports for a metal mains powerstrip + 3 supports for the «vibrating» source: (CD or Blu-Ray) player or laptop + DAC. In this last case, it is the computer that should be placed on the supports. It is usually equipped with a hard drive platter, and should be treated as a priority (vibrations and electrical signals in the same cabinet).



# ABOUT NEODIO

« TECHNOLOGY IS JUST A MEANS, NOT AN END IN ITSELF »

**STEPHANE EVEN,**  
**FOUNDER AND DIRECTOR OF NEODIO**

## FOUNDER

As an electronics engineer and music lover, Stéphane Even could not understand why he only rarely experienced moments of «pure grace» with his Hi-Fi system, despite the fact that he had good quality CDs and equipment. None of the technical explanations provided by market experts satisfied him. Ultimately, his dissatisfaction as a purchaser of high quality sound reproduction led him to leave his job as R&D Manager at Schneider Electric to become a Hi-Fi electronics manufacturer. And so it was that the Neodio brand was created in 2001.

## ONGOING RESEARCH INTO THE SENSATION OF EXPERIENCING MUSICAL

NEODIO was founded with the aim of pushing High Fidelity sound quality to its limits. From its first product, the Model 100 integrated amplifier, through to its ORIGINE B1 anti-vibration mounting, the brand has always focused on innovation, reliability and faithful sound reproduction. For Neodio, all that counts is the musical realism and experience created by listening to a Hi-Fi system.

Neodio is characterized by its constant R&D. As a result, it has developed expertise in five areas: amplifiers, CD players, DACs, mountings and cables.

## STREAMLINED DESIGN

Our products are designed with innovative technical solutions that combine elegance and simplicity. Any unnecessary complexity is eliminated. As with musical instruments, it is the quality of the design and the production that prevails.

At NEODIO, High Fidelity is achieved through a combination of innovation combined with painstaking optimization, based on listening. Our evaluation criteria are based on the naturalness of the timbres, the respect of the dynamic and the rendering of the sound image. Neodio's ambition is to offer its customers those elusive moments of pure grace.

## EXCEPTIONAL MANUFACTURING QUALITY

In order to ensure the quality and long-life of our products, they are entirely designed and manufactured in France. The selected components are durable and reliable. Used in high-performance electronic equipment, they are mostly assembled by machines by subcontractors supplying the avionics and medical industries. The industrial processes employed are ultra reliable.

For Neodio, the pursuit of excellence involves spending a considerable amount of time listening to the components. All of them. Right down to the fuses that protect our devices.



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