

The answer is The Box

That moment of privacy with your music, your sound system, in your room, in your living room, in your office, in your bedroom. Sound lovers know perfectly that time and those feelings. Want something more; more definition, more solid bass, while adjusted, less aggressive but more precise treble, warm and greater plasticity mids, more present voice, more focused, more real; immerse you deeply in the scene sound. How get this without having to change all the system or a large part of it? How to achieve a substantial improvement with all those features with a very contained investment?

¿What is The Box?

The Box is a high quality sound device that has been designed to achieve a substantial improvement in an already existing equipment. Just add The Box to your current setup and start enjoying the rediscovery of your sound system and your recordings without having to replace any component.

What does The Box do with signal? Does it modify it in any way?

The Box is a completely linear amplifier. It's normal, without making a good scientific and technical approach, to be unaware of the large energy losses involving cable interconnection of sound devices and interaction with other equipment. All audio equipment, in its input, has a series of filters to reject undesired components, for example, interference or direct current. This filter, seen by the source equipment output stage, is a challenge for it of impedance, capacitance in inductance. In addition, combined with the induction of the cable and its capacitance – typically, its impedance is negligible-. The Box, through a careful design of its input and output filters, its topology and the employment of our AE2270 discrete operational amplifier, of advanced audio design, is able to make your source equipment immune to all this kind of negative interactions. The effect got is as if you could modify your device source physically to get that had an output section of higher quality. Therefore, the result is like buying a device much more level and price that you have currently, but spending much less money, several times less. So simple. So true.

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How do I setup The Box in my system?

The Box can be connected between two any sound devices with level line input/output, using a cable with RCA connector. This is:

- Between a CD or Blu-Ray player and a preamplifier or integrated amplifier, a DAC with volume control and a power amplifier, etc.
- Between a preamplifier and a power amplifier, case of your amplifier is not an integrated amplifier.
- In short, between two line-level audio devices with RCA terminals.

Can I have more than one The Box in my system?

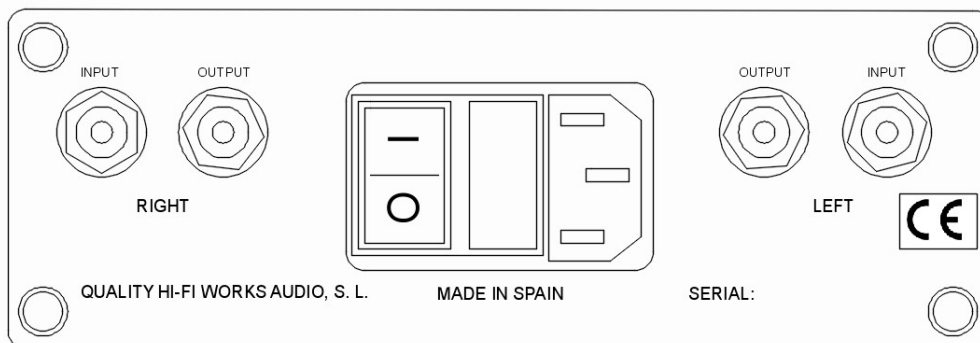
Of course, you can benefit of The Box effects by placing one in several parts of the chain of audio.

For example: you can begin placing one between your most used source (let's imagine a DAC) and your amplifier (or preamplifier). Subsequently, if you have a separate amplifier, setup one The Box between preamplifier and power amplifier. Even if you have an integrated amplifier which has pre-output and power-input terminals, you can add a The Box in that external loop. (Normally, your amplifier will have instructions of how to do that the signal is diverted by that loop.) Then, you can continue incorporating a unit of The Box placed at the exit of each of your other sources.

Characteristics and advantages

- Based on the excellent QHW Audio's AE2270.
- Global feedback loop with automatic adjustment depending on the impedance attacked with low output impedance, which provides a great capability in its interaction with any sound device and cable, even those of high length and capacitance.
- An oversized power supply of very low impedance and low noise.
- A low vibration, low electromagnetic radiation, high efficiency encapsulated toroidal transformer is used as power supply heart.
- A careful power supply lines decoupling design for low noise result.
- A ground design with star topology and insulation between signal ground, power ground and safety earth, which provides stability and low noise level.
- High dynamic range, handling more than 14 VRMS output.

- PCB has been designed with large width tracks and double thickness -70 um instead of standard 35 um- using always the least possible length with the global goal of minimizing impedance.
- In addition, the advanced PCB design, caring for the relative position of components and functional blocks and, using techniques as “guard rings”.
- Symmetrical design, to make the influence of current induced by power supply and mains magnetic fields – unavoidable physical fact – the closest possible on both channels, thus maintaining the best stereo imaging.
- Carefully selected components: low impedance power supply filter capacitors, metal film resistors of 1% of tolerance in audio signal path. Polypropylene film capacitors where possible and polyester film where values doesn't allow the previous. With the guarantee of the best brands: Nichicon, Panasonic, Elna, Vishay, Wima Epcos, etc.
- A chassis of extruded aluminium which gives thermal stability to the set, because the whole enclosure can act as a heatsink to air, and mechanic, because the reduced parts count gives it great rigidity, avoiding microphonic effects.
- Of course, The Box complies with RoHS directive.



Technical specifications

Nominal gain: 6 dB

Maximum output level: 14 V RMS or more.

Input impedance: 50 KOhm

Total harmonic distortion:

At 1 KHz and 3 V RMS output (20 Hz – 20 KHz BW): 0,0004 % or less.

At 1 KHz and 0 dBu input (20 Hz – 20 KHz BW): 0,0004 % or less.

Intermodulation distortion (19 KHz - 20 KHz):

At 3 V RMS output: 0,0007 % or less

At 0 dBu input: 0,0007 % or less

Frequency response at 1 V RMS:

20 Hz - 20 KHz: - 0,4 dB, +0 dB

Channel accuracy: 0,05 dB or better

Signal to noise ratio: 111 dB or better (input shorted, referred to max. output).

Stereo crosstalk: < -106 dB (at 1 KHz referred to 6 dBu or 1.55 V RMS).

Power consumption: 9 W

Nominal supply voltage: 230 V o 115 V (factory set) 50 - 60 Hz.

Maximum dimensions: 237 mm (L) x 169 mm (W) x 64 mm (H) (including connectors and feet).

The Box is designed and made in Spain.