

# THE BOX

## Owner's manual

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## Safety warnings

**NEVER OPEN THE EQUIPMENT:** There is a risk of electric shock inside. Only qualified personnel should open the device. There is not user serviceable parts inside.

**DO NOT EXPOSE THE EQUIPMENT TO MOISTURE OR WATER:** Exposing the equipment to moisture or water can lead to a risk of electric shock or fire. If, due to any circumstance, the device gets wet in such way that water could reach the interior, take it to a technician before connecting it again in order to verify it didn't suffered damage which can lead to danger.

**DO NOT USE THE EQUIPMENT NEAR WATER:** This equipment must not be used near water, bathtubs, wash tubs, swimming pools or any other you can imagine. If the equipment get wet or water it should lead to a risk of electric shock and/or fire, and get permanently damaged.

**DO NOT PLACE THE EQUIPMENT NEAR HEAT SOURCES:** Keep a reasonable distance between the equipment and heat sources for it not getting direct heat from heaters, candles, fireplaces, air conditioners or any other appliances which can send out heat, as computers or power amplifiers. Don't place the equipment blocking ventilation outlets from other equipment.

**CLEANING:** Disconnect the appliance from mains before cleaning it. Use a clean and dry cloth. Don't use aggressive cleaning chemicals, as glass cleaners, because it could damage painting.

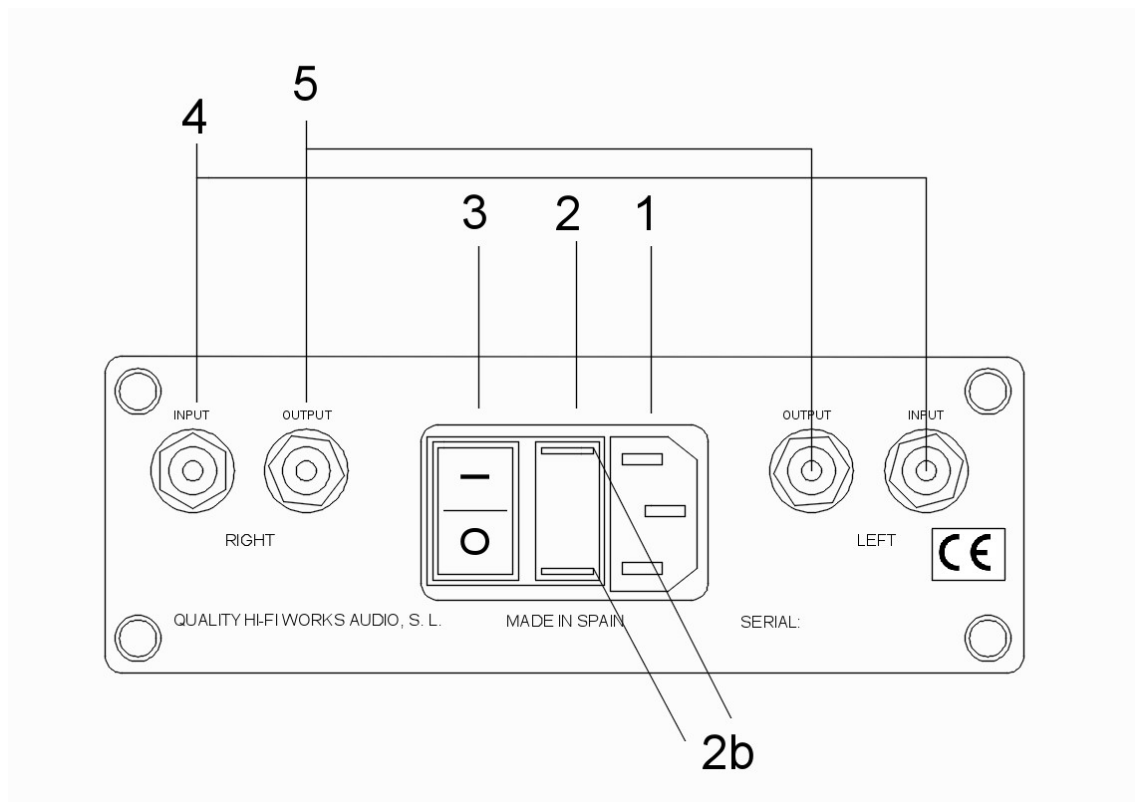


This apparatus meets the requirements found in European Council directives 2006/95/EC, 2004/108/EC, 2009/125/EC y 2002/95/EC.

### *Thank you*

Thank you very much for purchasing a QHW Audio product designed by sound lovers for sound lovers and congratulation for your intelligent decision. This is an electronic instrument designed for accomplish its task with great precision and fidelity for many years. This manual will help you in your new equipment installation and will give you information about its working. Please, read it before using it.

### *Rear panel description*



- 1.- Mains inlet (IEC60320 C14).
- 2.- Fuse drawer.
- 2b.- Clips for opening fuse drawer.
- 3.- Power switch.
- 4.- Audio input terminals.
- 5.- Audio output terminals.

## *Installation and connections*

For installing The Box in your audio equipment will need two stereo audio wires (or four, if you want to use wires which doesn't come by pairs) with RCA connectors.

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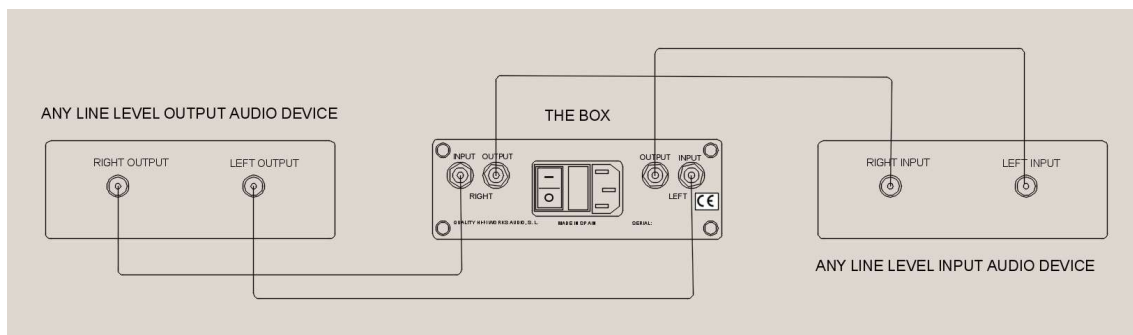
Before making any connection, make sure that The Box are unplugged from mains and any other equipment taking part in connection is powered off.

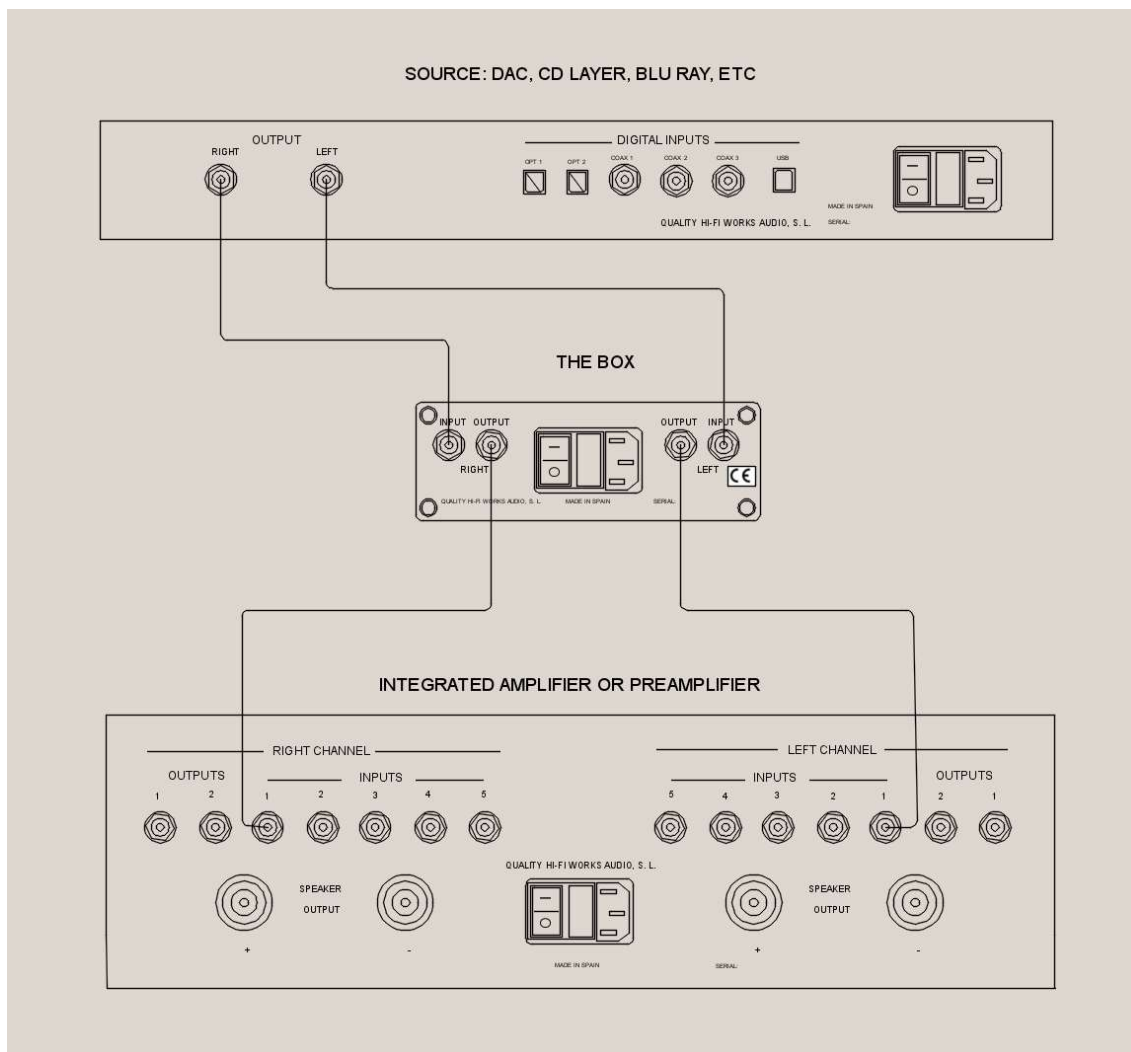
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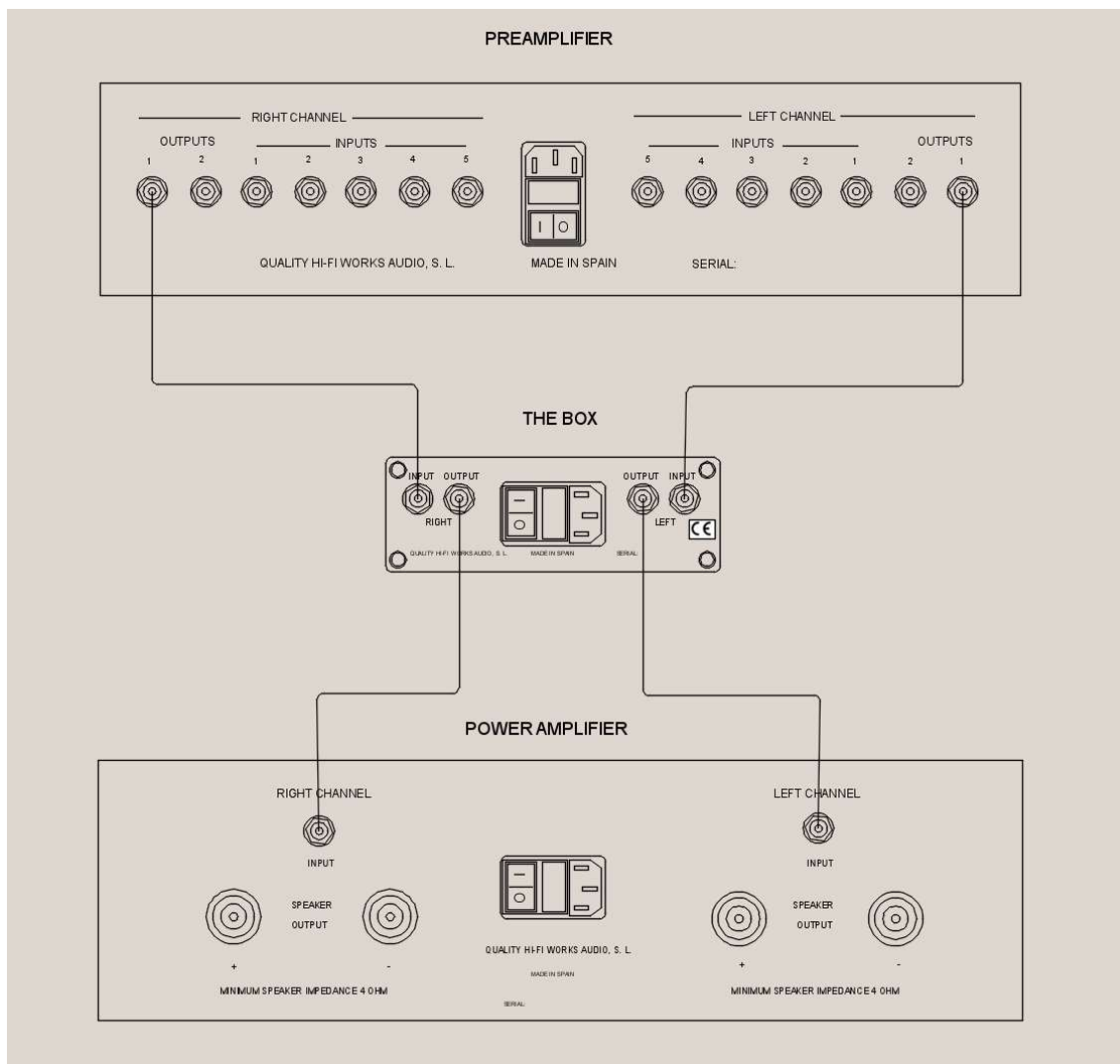
Connect outputs from equipment sourcing signal to The Box input to the inputs terminals [number 4 in description drawing] in the device rear panel and paying attention to channels left (L) and right (R) order.

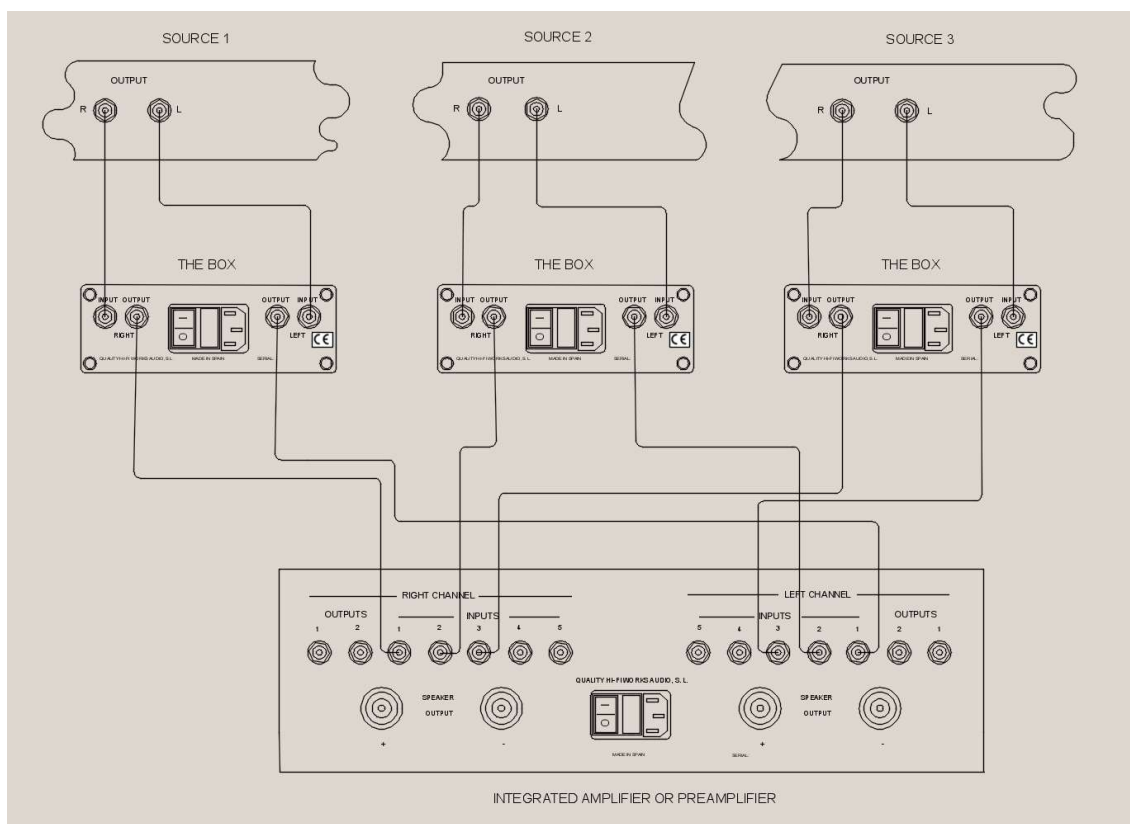
Connect outputs from The Box [number 5 in description drawing] in the device rear panel, to the inputs of the equipment which The Box is sending its signal to, paying attention to channels left (L) and right (R) order.

Following drawings show a generic connection schema and some examples, including the connection of some The Box units in a system:









Once all audio wires are connected, connect the mains cables, putting firmly the connector in the rear panel mains inlet of The Box [number 1 in description drawing].

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*Make sure that mains cable is disconnect from mains outlet before connecting it to The Box.*

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Now connect the mains cable to the mains outlet using an outlet that provides a safety earth connection.

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*This appliance must be earthed.*

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If cable included with The Box doesn't fit your region plug, you will need one complying with IEC60320 C14 in The Box end.

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*Always follow rules of electrical installation of your country.*

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## Operation

Once all connections are done according to previous part power of the appliances connected to The Box, the rest of appliances of your systems and The Box, switching the rear switch [number 3 in description drawing].

When you push the switch the frontal blue LED light will light. After about three seconds and a half The Box output will be automatically connected. You can hear a "click" noise from inside when that connection takes place. This retarding system is for avoiding noises during amplifier power up. This system also disconnects outputs in case of mains cut or powering off for avoiding noises during power supply reservoir discharging.

It's not needed you power off The Box, its consumption is low, lower than 10 watts and is protected against overcurrent and overvoltage from mains. Keeping it always on or to power it on and off each time you use your system is your own decision.

As any electronic appliance, it's recommended to unplug it if you're going to spend a long time out from your home, like, for example, for holidays or if there's an electrical storm.



## Troubleshooting

### Frontal LED doesn't light.

- Check mains cable is firmly set.
- Check, plugging another device, that the mains outlet has current.
- Check power switch is in right position.
- Check fuse is not blown, following the instructions from section "Checking and replacing the fuse", forward in this manual.

### Sound is distorted, specially when the level rises.

- Check all audio cables are firmly put in their terminals.
- Try another cable, it may be some damage not visible in an apparently right cable, create distortion and strange noises.
- Lower the input level (source level) to The Box because it, due to gain, it was doing and excess of signal level (clipping) in the device connected to its output.
- Try to connect your system without The Box for discarding trouble source is in another equipment.

### A loud or annoying hum is heard

- Check all audio cables are firmly put in their terminals.
- Try another cable, it may be some damage not visible in an apparently right cable, create distortion and strange noises.
- If possible, try to use another mains outlet to see if noise disappears.
- Unplug and disconnect from audio chain all equipments except thouse essential to see if noise source is a device not working in that moment.
- Try to connect your system without The Box
- Try to connect your system without The Box for discarding trouble source is in another equipment.

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*Never disconnect earth connection as solution for hum. That can be a safety risk for persons.*

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## *Checking and replacing the fuse*

If it's needed to replace the fuse do it with an exactly same type one, that's: slow blow, 250 V and 100 mA, T250V 100 mA.

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Never use a fuse with other specifications.

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Before checking and/or replacing the fuse poweroff The Box, unplug all cables from it and mains cable.

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Never try to check or replace fuse with mains cable put in. There's risk of electrical shock.

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Press with a plain screwdriver or something similar, the upper clip of fuse drawer [number 2b in rear panel description drawing] and pull it. Once it went out some millimeters, do the same with the lower clip, paying attention in not pushing the other one. Once both are out pull the drawer. Put out the fuse simply sliding it.

For checking the fuse, look at it in a well illuminated place, thread should be seen intact with no cuts and the glass transparent. A darkened glass, which doesn't allow to see the thread or a cut thread indicates fuse replacing is needed.

Put the fuse it its place, as it came, and press firmly the drawing until it's perfectly set, checking it doesn't get out easily.

### *Technical specification*

**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).

**Weight:** 2 Kg