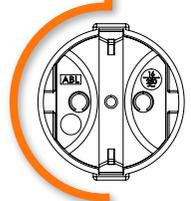
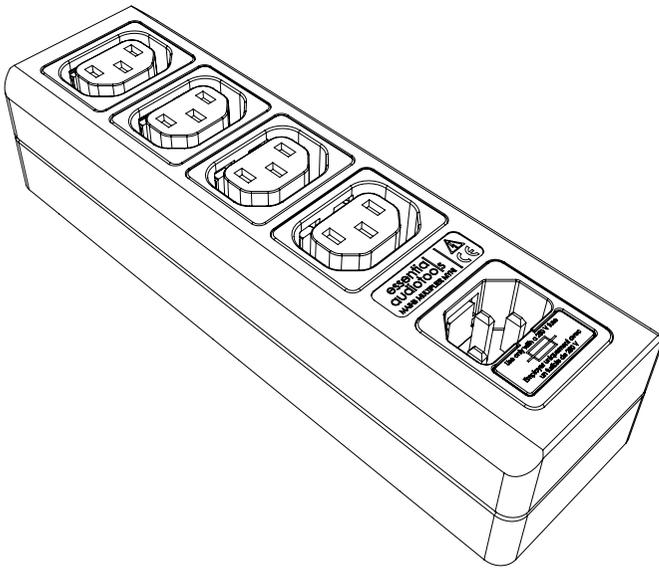


essentia  
audiotools

# User Manual

Rev 2.0 July 2022

## Mains Multiplier Myni



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## Introduction

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Thank you for purchasing this Essential Audio Tools Mains Multiplier Myni!

'Essential Audio Tools' is a Square Audio brand name. The name speaks for itself, tools which are very *essential* for music reproduction. Better reproduction often means more involvement.

Our 'Essential Audio Tools' are products to improve the sound of your audio equipment where it all begins: the mains power supply. The power from the mains socket is being 'abused' even before it enters your audio equipment. The energy company uses the mains supply to control government property equipment, like streetlights. Also other equipment is communicating with each other by use of the mains power supply. But there is more: the past 25 years switching power supplies have made their way into computers, TV's and other home appliances. These devices pollute the mains supply with nasty pulses. This "Trojan Horse" comes into your equipment without you being aware of it. The pollution has to be taken out of the mains power supply before it reaches your (analogue) audio equipment. The Essential Audio Tools cables, distribution boxes, filters and phase indicator make any audio set perform better.

Essential Audio Tools invests lots of time and effort to make products as good as they can be. They are all made with use of precision CNC machining. Beautifully shaped, well-designed and manufactured from top-quality material by experts. Experience the quality of our products and listen to the results, then you know what we mean.

We wish you lots of pleasure!

# Description

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The Mains Multiplier Myni is not a regular multiple socket but more a work of art made on a CNC machine that shapes this form out of one piece synthetic material. Yes... synthetic! The results speak for themselves, optical as well as electrical.

The type of outputs is chosen because of the high contact pressure, which is obvious when putting in or pulling out an electric plug. More contact pressure and an optimal contact surface do create a low resistance value. This is very important for good power distribution. The wiring for phase, neutral and earth is connected by a star principle. Every output has its own wiring towards the feed cable. Peaks in the current or interference signals that appear on contacts of one socket will now have less effect on the other sockets.

A 'Pulse Protector' is integrated behind the IEC input connector. This prevents peaks and pulses reaching your audio equipment. Our Pulse Protector is also available as a separate tool, please check our website.

Essential Audio Tools power cords are built with two layers of screening; a 100% closed aluminium foil and a tinned braided copper screen. This double shielding protects the nearby signal cables from the fields generated by the current flowing through the conductors. It also works the other way around: preventing the conductors picking-up airborne disturbances from the environment. The twisted Oxygen Free Copper (OFC) conductors are fully capable of transporting the current your equipment needs without ohmic losses.

## Where to use

Wherever you need to connect multiple loads to the mains, the Mains Multiplier is the best choice. The Mains Multiplier Myni is specifically designed to be positioned next to your audio equipment. This is possible by an integrated cage of faraday made out of pure copper which has excellent conductive characteristics. This luxurious addition is one of a kind within the world of high-end audio in this price range.

## What to expect

An improvement in dynamics, a much better sound image and a lower hum level. The sound character of your audio system remains, fortunately!

By using the Mains Multiplier Myni with integrated Pulse Protector your equipment has less trouble with electrical failures induced by distortion on your network, and it is better protected against damage through lightning impacts nearby. A guarantee that lightning impacts will not damage your equipment can not be given because the energy-content of lightning is too high.

## Tips

- For maximum noise reduction, it is best to keep power cords and audio cables in your setup separated by some distance from each other, also avoid routing cables in parallel.
- Use high-quality power cords (our Myni Conductor series) to connect your equipment. The screenings will prevent stray-fields reaching your audio cables. Order your power cords as short as possible, for best results.
- Do not connect distribution blocks or mains splitters to the outputs. It will possibly cause interference.
- Feed ALL your equipment from the Mains Multiplier Myni. Having an extra external power feed to one of your pieces of equipment will possibly cause interference and/or hum.

# Safety precautions

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For your protection and safe operation of the unit, please read the following:

## **Avoid water and other liquids**

To avoid risk of fire and electrical shock: do not expose this device to moisture. Use indoors and in dry locations only. Do not expose to dripping and/or splashing. Do not place objects filled with liquids -such as vases- on or near the device. Do not operate the unit if any liquid is spilled on or into the unit; return it to your dealer for servicing.

## **Don't open the device**

To avoid risk of electrical shock: do not open the device. There are no user serviceable parts inside. Repairs are to be performed by qualified personnel only.

## **Unplug before cleaning**

Always unplug the unit before cleaning. Only clean the unit with a dry cloth or duster. Do not use any cleaning solutions, sprays or water.

## **Connect to mains ground**

For safety reasons and to protect connected equipment, this product **MUST** be connected to mains with a three conductor power cord which includes a working ground conductor. The power cord **MUST** be plugged into a grounded AC power outlet (3-pin). Do not use a 3-to-2-pin adapter to bypass the grounding pin. Failing to plug this product into a grounded outlet through a ground conductor including mains cord may result in personal injury or damage to your equipment. Call a licensed electrician if you are unsure if your AC outlets are properly grounded.

## **Do not overload individual outputs**

Do not connect loads which draw more current than the maximum rating for each individual outlet. Possible damages due to exceeding these maximum ratings will void warranty. The **MAXIMUM CURRENT** rating for each outlet may differ, please look at the **Specifications** for maximum load specifications.

## **Do not exceed maximum total load**

The total current drawn from all outlets together may not exceed 5 Amps. At 230 Volts mains supply this is equivalent to 1150W.

## **Check your supply voltage**

This device is designed for 220-240V~ @ 50/60 Hz mains supply. Connecting to a different voltage may damage the device and warranty will be void.

## **Avoid condensation**

If the device is moved from a cold to a warmer area, allow the product to warm up to room temperature before connecting it to the mains supply. This is to avoid condensation inside the device.

## **Connect power cords safely**

Power cords should be routed in such a way that they are not likely to be walked on or pinched by items. Do not route power cords near heat sources. To disconnect the power cord, pull it out by the plug (wall outlet side first). Do not pull the cable itself, doing so may result in damage which can lead to fire or electric shock.

Integrating your new Mains Multiplier Myni is as easy as can be.

Just connect the Mains Multiplier Myni to your wall socket. Use a phase indicator (like our Sound Saver) to test which contact of your mains supply socket is phase. You've found it when the LED indicator lights up. Essential Audio Tools power cords (Current Conductors) are marked with a red dot to indicate the phase. This mark should face the side of your mains socket which is phase. For countries with an earth pin in the middle of the wall socket (France, Belgium) it is not possible to reverse the power cord plug in the wall socket. You should ask a technician to reverse the neutral and phase in your wall socket, NOT in your power cord. Don't do this yourself, the mains voltage is dangerous!

The Mains Multiplier Myni uses a type of connection never seen before in high-end audio power strips. The IEC contacts provides remarkable contact pressure, ensuring superior electrical conduction. More contact pressure and an optimal contact surface do create a low resistance value which is very important for a good power distribution.

The Mains Multiplier Myni has a build in slot for a fuse. This fuse, additional to the pulse protector inside, will protect your equipment and the multiplier itself from malfunctions. The slot is easily accessible from the top of the product. **When replacing the fuse make sure the multiplier is disconnected from the mains supply.**

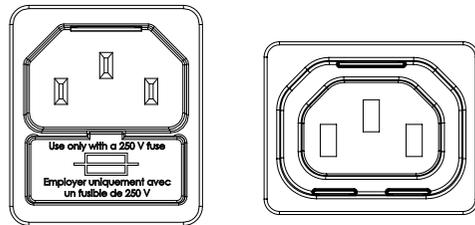


Figure 1. IEC C14 Inlet

IEC C13 Outlet

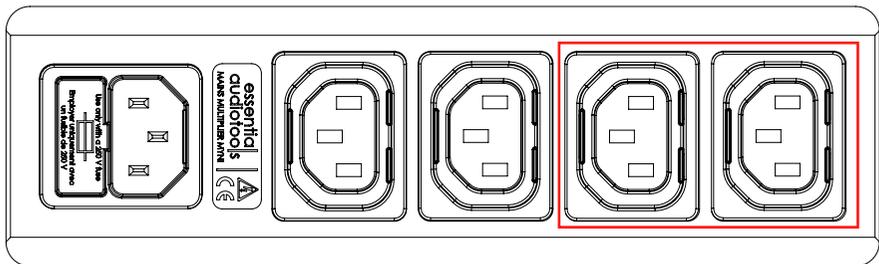


Figure 3. Mains Multiplier Myni

Filtered

The Mains Multiplier Myni has two HF filtered outputs, see figure 3.

They all have a maximum current of 5 Amps each, however the **total current of all outputs may also not exceed 5 Amps.**

Your Mains Multiplier Myni must be connected to an earthed mains supply wall socket, however if you do not have earth the Mains Multiplier Myni will still function. The Mains Multiplier Myni itself will make a connection between all earth contacts of your equipment. This will prevent that small currents will run through your interlinks due to differences between earth potentials at your equipment's chassis. So even without an earthed wall socket you should keep using your earthed power cords.

# Specifications

## Mains Multiplier Myni

|                                       |                      |
|---------------------------------------|----------------------|
| Rated voltage                         | 220-240V~ @ 50/60 Hz |
| Maximum continuous current per socket | 5A                   |
| Maximum continuous total current      | 5A                   |
| Maximum continuous total power        | 1150W                |

## Protecting Phase-Neutral, Phase-Earth and Neutral-Earth

|                      |                  |
|----------------------|------------------|
| Maximum voltage      | 250V~            |
| Maximum peak-voltage | 2500V            |
| Maximum peak-current | 4500A            |
| Maximum peak-energy  | 3 x 65 Joule     |
| Response time        | < 25 nanoseconds |

## For Mains Multiplier Myni

|        |                              |
|--------|------------------------------|
| Size   | 183(l) x 54(w) x 43(h) in mm |
| Weight | 0,48 kg                      |

## Current Conductor S

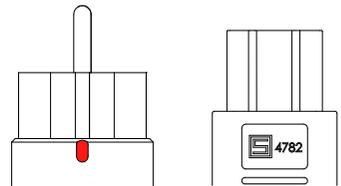
|                 |                                        |
|-----------------|----------------------------------------|
| Mains Connector | Schuko                                 |
| Conductor type  | OFC, stranded                          |
| Screening       | Braided finned copper + aluminium foil |
| Rated voltage   | 220-250V~ @ 50/60 Hz                   |

Output connector

C13

Outer diameter  
Conductors [mm<sup>2</sup>]  
Maximum current

8mm  
3x 0,75  
6A



Current Conductor S

## Myni Conductor IEC

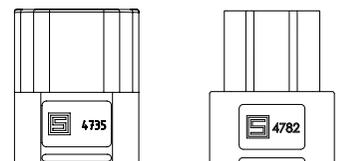
|                 |                                        |
|-----------------|----------------------------------------|
| Input connector | C14                                    |
| Conductor type  | OFC, stranded                          |
| Screening       | Braided finned copper + aluminium foil |
| Rated voltage   | 220-250V~ @ 50/60 Hz                   |

Output connector

C13

Outer diameter  
Conductors [mm<sup>2</sup>]  
Maximum current

8mm  
3x 0,75  
5A



Myni Conductor IEC

There are no serviceable parts inside. Do not open your Mains Multiplier Myni!

Please check the following before requesting service:

- 1 – Check the wall socket by plugging in a light or load to check if the power is present.
- 2 – Check if the power cord from the wall socket to the Mains Multiplier is functioning and make sure the power cord is plugged deep enough into the Mains Multiplier's input.
- 3 – Check your equipment and the power cord by connecting them directly to a wall socket to test if they work without the mains multiplier in between.
- 4 – Check if the fuse hasn't blown. If the fuse has blown, replace the fuse with a T5A/250V fuse. A spare fuse can be found in the fuse holder.

*- Do not keep replacing the fuse if it blows immediately after you replace it. -*

Please contact your local dealer if all of the above is tested and working, but the unit is still not functioning.

## Warranty

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Essential Audio Tools products have a warranty period of two years from date of purchase. This warranty covers manufacturing defects and failures within products specifications.

When warranty is claimed the original bill with the buyer's name and date of purchase should be presented.

Warranty will void if:

- The device has not been used in conformance with the user manual.
- The device has been used in an industrial environment.
- The bill has been altered or made illegible.
- Modifications or repairs have been performed by non-authorized persons.
- Malfunction is caused by device-external conditions, such as: overloading, atmospheric discharges and fire or water damages etc.

Warranty is limited to damages regarding the Mains Multiplier itself: all eventual consequential damages are not covered by warranty.



More information about our products:

# essential audiotools

MORE INFORMATION:  
[WWW.ESSENTIALAUDIOTOOLS.COM](http://WWW.ESSENTIALAUDIOTOOLS.COM)

