

# HIFI-STARS

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Clearaudio Tracer | Phil Manzanera | Tobermory 12



## Cammino Powerline Powerline Harmonizer H3.1 Mk2

# „The way to music“

The Italian cable specialist has already attracted our attention with its signal cables – see the report in HiFi-STARS 35. No less interesting is the power supply of the Venetian manufacturer. His boss, Claudio Trevisanello, has found the right guideline for this and names the series meaningful with „The Path To Music“.

## Basic theme

The music playback is based without exception on two signal paths, one of them is constant, the other one changes. That's where it comes from: alternating current. The changing – or modulating – signal is the actual supply line. Precisely for this reason, a phase-correct connection of the equipment is of eminent importance. This is the approach of Claudio Trevisanello. He consistently pursues the correct treatment of the current and therefore also puts a phase tester of the delivery of the Powerline Harmonizer 3.1. now in the improved version Mk 2. If you already have the first version, you can upgrade to

the Mk2 version for an extremely fair 450 Euros via the sales department. As is well known, our power grid has a frequency of around 50 Hz, differently charged depending on the time of day or night, the same applies to weekends and public holidays. The grid frequency is related to the rotational speed of the synchronized generators. If the energy consumption increases, the generators rotate more slowly, with decreasing consumption their rotational speed increases. All values between 49.82 and 50.18 Hz are considered normal, but any value below that is „too little power“ with the result that the power plants are running too slowly and any value above them is „too much power“ – the Power plants are running too fast because they are under-loaded. Already at 50.2 Hz older solar systems switch off! It is therefore only logical that all these fluctuations in music playback in high-quality equipment noticeable. „The net hides the sound“ is therefore more than just a winged word in our editorship and the number of network conditioners and filters in use is now very high with us.





## Operation

The Cammino Powerline Harmonizer 3.1 recognizes and improves the existing power quality by protecting against voltage surges, shutting off electrical impurities and ultimately stabilizing the power supply by eliminating the interferences (which are permanently generated by consumers in industry and / or households, e.g. B. PC, hair dryer, etc.) are generated) eliminated. Its rear sockets are available in different versions. While the IEC connectors in the analog section tolerate the standard 10 amp continuous power, the rhodium-coated digital slot is limited to 2 amps, which is quite sufficient for the power requirements of these devices. The two switches serve - as the designation with „PE“ (protective earth) already indicates - for switching the grounding, if necessary. The tip from the sales I may not be deprived at this point: connect the preamplifier here and play with the various circuits of the earth. Only this: you hear it! The protective conductor accor-

ding to VDE 0100-540 forms a circuit for the event of a fault and triggers the over current protection device. The housing is made of a ceramic material, which is low in vibration and resonance and non-magnetic. The standard color is in black high gloss, the dimensions are 290 x 145 x 215 mm (W x H x D) including feet, all at a weight of 5.2 kg. The three vibration feet are mounted on metal balls to minimize mechanical vibration. The Harmonizer 3.1 Mk2 is switched on at the rear, here the correct phase position of the connection can be checked immediately by means of a button. The respective slots indicate the correct phase position and by means of the already mentioned phase tester this can easily be tested by the user according to the correct. In order to do it consistently, it requires the knowledge of the absolute phase on the respective device - this can be determined by the respective manufacturer in experience. The delivery is also a 1.80 meter long Cammino power cord, a very practical length in the supply of the wall socket.





## Sound influences

It may sound weird at this point, but the right phasing can be heard quite quickly in the sound. If the system somehow subtle unclear – or unfocused sounds in their music playback, it may be that the phase of a device is twisted in the system. Now smart people could reply, that would not matter with alternating current, after all, that's what he's called! True – but what is forgotten in this argument, are the different types of modulation within the system, and if the polarity is not right (current passes through the phase), while you can hear music, nevertheless sounds, as already described, then all in one unfocused sound, created by the superimposition of waves. This phenomenon is called interference, which is known as constructive interference and destructive interference from physics. In the case of constructive interference, the individual waves increase, and in the case of destructive interference, the waves cancel each other out. In sound, the constructive interference leads to higher volume and the destructive interference to less. This makes clear where the journey is going! It's all just physics, and those who embark on the terrain of high-quality music playback will inevitably have to deal with the subject of power grids – everything else would be inconsistent. How lively the power grid is, can be read in the Internet on [netzfrequenz.de](http://netzfrequenz.de). Here is the current course in the case of Hamburg displayed – truly a highly exciting matter that can be reflected on any comparable city. But it is not only here that net processing systems work, they also help to treat the power correctly in the countryside.

## In a nutshell

The Cammino Powerline Harmonizer H 3.1 – Mk2 is an effective device for the ambitious music listener, because with its use, the room and stage performance in music playback is significantly more spacious and looks more „real“ about everything. I stick to it: the sound is hidden in the power grid and it is essential to free him. Better to invest in a decent network system, as constantly (because of dissatisfaction) exchange devices!

## Information

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