

# Watt's up?

If you're looking for a performance boost without the box swapping risks, **Ed Selley** thinks IsoTek could have just the solution

he business of upgrading a system that has a synergy between components can be a slightly fraught experience. Even when you stay with the same manufacturers, the arrival of a new product can throw a previously happy relationship between existing products out of line. This can then demand further updates to cure and in some unhappy instances, leave you wishing you hadn't bothered. Equally, if you want a performance boost, you have to look at swapping a component out – or do you? IsoTek has been in the business of

IsoTek has been in the business of providing another upgrade option since 2001. The company focuses on

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the mains supply that a system receives and seeks to improve the quality of the electrical current your system takes in to assist with performance. This is focused on the removal of mains-borne interference. Depending on how power lines are rigged in your corner of the world, your power supply can find itself infested with electromagnetic and radio frequency interference. Even once it reaches your home, the proliferation of Ethernet over mains devices, baby monitors and white goods can throw a great deal of noise back onto your mains. The Evo 3 Sigmas is actually a

combination of two IsoTek

### DETAILS PRODUCT IsoTek Evo 3 Sigmas ORIGIN UK TYPE Mains conditioner WEIGHT 10kg

DIMENSIONS (WxHxD) 444 x 85 x 305mm FEATURES • Quoted power output: 3,680W (high current) and 2,300W (low current) • Six output sockets DISTRIBUTOR Sound Fowndations TELEPHONE

O118 981 4238 WEBSITE isoteksystems.com components – the Titan, which is designed for power amplification and the Nova optimised for source equipment. These functions are cut down in the Sigmas, but when you take into account what the Sigmas can do, this is more a reflection that the Titan and Nova are determinedly over specified than any sense of cost cutting in the Sigmas. As such, the Sigmas is fitted with six mains sockets. Two of these are intended for high-voltage applications such as power amplifiers, while the other four cater for source equipment.

The amount of power the Sigmas disposes of to do this is impressive. The two high-voltage sockets have a total of 3,680W available to them while the four low-voltage ones have a total of 2,300W on tap. As such, even though the Sigmas is very much in the centre of the IsoTek range, it can handle some distinctly high-end power requirements. The other arresting number from the specifications comes in terms of protection. By using an array of voltage-dependent resistors, it offers 108,000A of protection against surges, spikes and other nastiness.

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The figures are certainly impressive, but there is so much more than just brute force to the design. Perhaps the most important aspect of the Sigmas – and certainly one that matters to the overall performance – is that it is made up of six individual filters. There is no connecting wiring between the sockets and each one has a dedicated filter network. This means that even if you have a component with some decidedly

CONNECTIONS

### That display can be bright, but it can be turned off

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dubious behavioural characteristics connected to the IsoTek, those characteristics shouldn't have an adverse affect on anything else. Internally, it is wired with high-purity copper wiring while the circuit boards make use of gold-plated copper

connectors for optimal signal transfer. This attention to detail extends to the outside of the product, too. The Sigmas is finished to a standard that is extremely good even at the asking price. The casework is solid, exactingly assembled and - as much as a power conditioner ever can be considered attractive - aesthetically pleasing with a clean and uncluttered appearance. The only slightly discordant note is the display that will either show watts being supplied or the total percentage of total power that the Sigmas is delivering. This is clear and easy to read, but also extremely bright. With the lights off in the listening room, the effect brings to mind an alien abduction and while it can be switched off, it can't be dimmed which is a little irritating, but not the end of the world.

This is perhaps the only design curiosity in an otherwise very well thought out product. As someone that has used an Evo 3 Aquarius for some time now, one of the most useful tweaks to the Sigmas is that the mains sockets are now at a 45° angle, which makes the 'flow' of cables out the back much easier than the 12 o'clock arrangement of the Aquarius and makes the installation of the Sigmas simplicity itself.

This ease of installation means that the performance of the system in question – a Naim Supernait 2 integrated amp, ND5 XS streamer with XP5 XS power supply, Arcam airDAC and Michell Gyrodec with Avid Pellar Phono stage – goes in with minimal fuss. Given the care Naim lavishes on its power supplies, particularly the external ones, I am interested to see what the IsoTek can bring to a system of this nature.

### **Sound quality**

The good news is that the impressive technical specification of the Sigmas translates into performance gains and the really good news is that none of these gains change the basic character of the system. The Naim electronics keep their powerful, slightly dark presentation and the excellent detail retrieval takes another step forward as noise levels that were already low simply drop away to nothing. The bass response was never an area I felt

### If you are looking for a wholesale boost to your system, the Evo 3 Sigmas is it

short changed in, but now it has a little extra speed and agility over and above what it had before. Soundstage is not a concern of the Naim sound, but the Sigmas manages to create a sense of space to the performance that opens the presentation out without losing the sense of focus and drive that the system excels at. The effect is uncannily like the strapline for Berocca vitamin tablets – my system, but on a really good day.

One of the more unusual aspects of the Sigmas is that the improvements don't seem to negate the effects of other power products. When connected directly to the IsoTek, the ND5 XS streamer is unquestionably better than when hooked up to the mains, but connecting the XP5 XS power supply back up still reaps the benefits that it does when the Sigmas isn't used, and removes almost any sense of 'digital' to the presentation. This does mean that if you are unhappy with an aspect of your



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### Choice EXOTICA ISOTEK EVO 3 SIGMAS MAINS CONDITIONER £2,295

### Q&A

Keith Martin General manager, IsoTek Systems



### ES: Is there a cut-off rule of thumb for best use of the high voltage outputs over the low voltage ones? KM: The question of high current and

**KM:** The question of high current and medium current isn't just power consumption, it is how that power is consumed. For example a plasma will draw continuous current, thus the circuit would be different to that of a power amp (not class A), which needs to gulp current when the music is dynamic. So it's also a question of high-current and low impedance.

The medium-current side of the Sigmas auto adjusts to the load, so if you were to place a CD player (30W typical) next to a projector (300W typical) the circuit would auto adjust to give the best filter environment.

#### Is there a system price point where you would recommend the Sigmas over the Aquarius and Solus?

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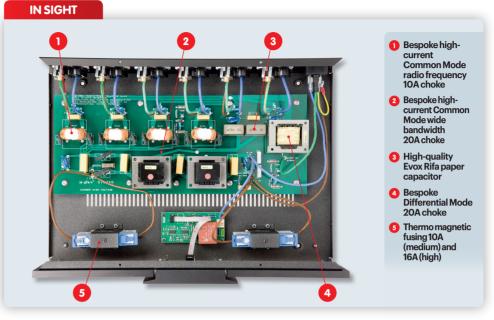
This is always a contentious question. We say between 10-20% of a system's value, however in some demos we've put in power conditioning systems costing double that of the system's value, and the system sounds more than twice as good!

But we'd say you're probably getting 80% of system potential without considering a good, properly designed (for purpose – for audio usage) power cleaning solution. It's similar to purchasing a sports car and not thinking about the road on which you drive it. Logic states driving it on grass won't be as good as flat tarmac!

## With the changes to what we connect to the mains, are there best practice principles to follow?

The basic problems of common mode, and differential mode noise are always there. We have increased challenges by the increased use of Class D power supplies that disrupt the mains more (differential mode). The use of more and more electrical appliances in our homes. The use of wi-fi in our homes (common mode), some companies offer products to boost wi-fi signal by turning your ring main into a giant aerial - nice for common mode and RFI. Products will be released to deal with this, which will be backwards compatible with existing IsoTek systems

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system's performance, the Sigmas is unlikely to correct it and could theoretically exacerbate it – although in this case you'd surely be looking to change the equipment in question before you think of adding a product of this nature.

The other trait of the Sigmas that might be worth taking into account is that while I feel devices that run at standard mains voltages benefit quite considerably from its addition, I am less convinced the benefits on low voltage 'wall wart' type products are as clear cut. The Arcam airDAC I use mainly to allow streaming of the Tidal service to the system doesn't seem to show the same benefits as the main streamer. It certainly doesn't get any worse, but the performance is fairly consistent across connection to a standard mains gantry and the IsoTek. Neither is this limited to the Arcam. The Chord Hugo also behaves in much the same way (although as there are batteries in the Chord, this is less surprising). Given systems that run on lower overall voltages are popping up at higher price points, this might be something to take into account before choosing one.

The news for equipment that uses higher voltages is almost exclusively good, however, and even when the current demands are not very high – the Avid Pellar barely registers on the voltage consumption display – the benefits are immediate and effectively viceless. Neither are they limited to audio. Some tests with a Panasonic plasma TV (which is habitually connected to the Aquarius conditioner) see a small but useful drop in picture noise when connected to the Sigmas, which means that if you have sockets going spare on your IsoTek, other bits of AV equipment will benefit from it.

### Conclusion

The Sigmas is not a magic bullet product. It won't correct glaring errors in the way a system performs and there are conditions - both in terms of product design and your location - where its impact will be lessened, but this should not take away from what it does. If you have a system that performs in the way you want it to and you want to try and make it better, the Sigmas delivers in spades. There are very few products that can deliver improvement across the board to a multiple unit system, but this is very definitely one of them. It is able to wring that little bit more out of a system and given its transparency and immense current delivery should be able to handle a few upgrades if you do decide to push the system further in the future. If you are looking for a wholesale boost to your system, you've just found it •

#### Choice **OUR VERDICT** SOUND QUALITY LIKE: Offers a boost to \*\*\*\* performance without changing character VALUE FOR MONEY DISLIKE: Less \*\*\*\* effective on some low-voltage components **BUILD QUALITY** WE SAY: This is a \*\*\*\*\* tremendously effective and very well FEATURES implemented mains $\star\star\star\star\star$ treatment system **OVERALL**

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closely competitive

HFC 344) and both

products go about

trying to achieve the

same role and offer

The Sigmas is less

expensive than the

Isol-8 and the single

chassis design is more

convenient in terms of

placement. Both units

. are well finished, but the

consumption display of the IsoTek, while a little

bright is a useful feature

to have. Both products

have similar provisos in

terms of what they can

and can't do, but the

IsoTek looks like the better value option

in this context.

similar functionality.

SubStation (reviewed

with the Isol-8

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