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Mini Sub Instruction Manual



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The company



A. Introduction

The company

IsoTek was formed in July 2001 with the vision to create high quality mains power distribution units that moved beyond current conventions. Through careful market analysis and extensive research we were able to launch products that moved power distribution forward to be recognised as an integral part of any audio or home theatre system. Our products continue to lead the way in power management systems, our latest GII range galvanises our commitment to pursue excellence at every level.

The principles

We believe all products benefit from their own clean power supply, therefore we advocated the concept of using (smaller) individual filters on each component, with these being specifically designed for their purpose, this dramatically reduces and stops component cross contamination and dispels the belief that one size fits all. Every single component used in our designs is extensively tested for quality, reliability and purpose. Our circuit designs are extensively 'field' tested before coming to market so we can guarantee the widest compatibility with third party products.

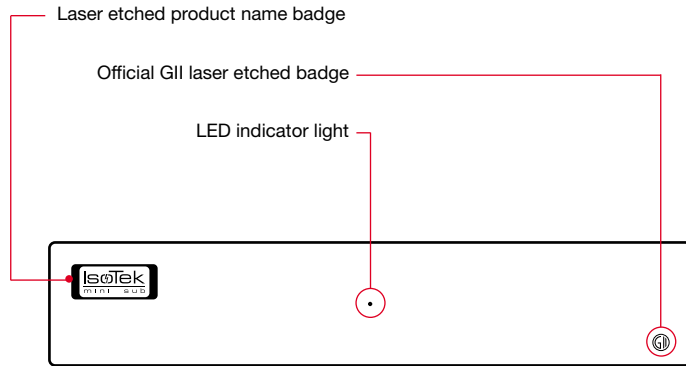
The execution

Within the market of premium audio it is vital to offer exceptional performance and value for money. Products must be made to the highest of standards, be reliable and attractive. A manufacturer must offer exceptional service, dealer training, support and undertake the very best in promotion design and literature. If all these elements are in place customers should experience excellence at every stage. Our continual quest is to meet these challenges.

All of our products are professionally designed, manufactured and hand built in the UK, with deep consideration given to both style, functionality, performance and value for money.

B. The product

Front elevation of the unit



Overview

Thank you for purchasing our Mini Sub or Vision. The Mini Sub & Vision is our award winning component from component mains power filter and distribution unit. It was designed to be a very rewarding single box 'plug-n-play' solution for a complete audio or home theatre system. The Mini Sub & Vision offer astounding value for money and gives a taste of what our truly high-end solutions offer. Within our product range the Mini Sub & Vision sit between the Solus and high-end Nova.

Features

At the rear of the unit you will note six high quality outlet, these are individually filtered to stop components 'talking' to each other or corrupting the clean supply provided by the unit. This is achieved by a series of delta filters on the outputs and a sophisticated notch filter which was inspired by work in cryogenics, and harnesses the technique used for the switching of cryogenic coils.

Outputs 1 & 2 have been given a higher power rating and should be used for high current devices, for example power amplifiers, integrated amplifiers, some 'tube' pre-amplifiers, projectors and plasma screens etc. The remaining four are suitable for all other equipment.

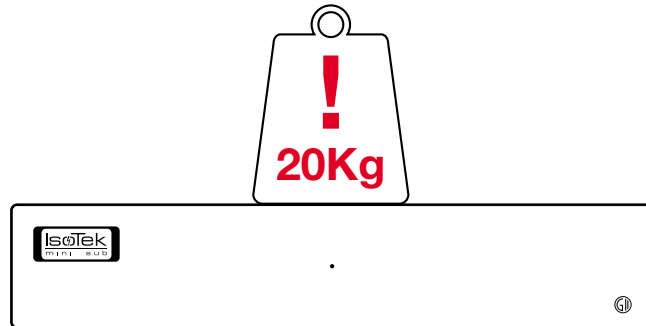
Mini Sub & Vision features enhanced protection through stabilising the units voltage and giving it a very large absorption ability, this is extremely important in today's society where dangerous power surges can damage sensitive audio equipment.

All fusing is external, this eliminates any need to enter the product. The unit is so safe that even if the mains are wired incorrectly in the rest of the house or environment that the product is used, the unit will correct the problem sonically.

All components are of the highest grade and are under stressed, this gives greater longevity. These are hand soldered onto a PCB with silver

B. The product

Weight loading



Safety

solder, the large PCB also features a ground plane upper surface acting as a very high grade common mode filter across the whole board, this allows the unit to act as a true faraday cage, protecting itself from RFI and other components from the job it performs. The unit is also fully star earthed.

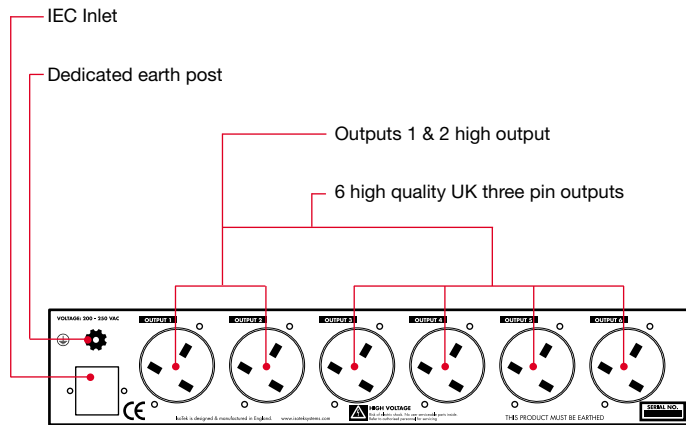
In the interest of safety the unit should be placed upon its own dedicated shelf on an audio grade equipment rack. The unit may be placed on top of or under other pieces of equipment, do not exceed a maximum weight loading of 20kg.

Areas where 'tube' amplifiers are present should not exceed 25 degrees. If you are positioning the Mini Sub or Vision in the close proximity of such a device please be aware of this factor.

If you have to locate the unit on the floor we strongly recommend you do not place the unit near heat sources, such as radiators or air ducts. Good air circulation is essential to prevent heat build up within the chassis. Do not place the Mini Sub or Vision on a soft surface, for example a rug or carpet, which could block the ventilation intakes on the underside of the unit. Do not let any liquids spill onto or objects fall into the chassis. Should either of these events happen immediately switch off the unit at the wall socket, wait for at least one minute, unplug all other cables and return it to your authorised IsoTek dealer for a full service.

C. Installation

Rear elevation of the unit



Placement

Ideally the unit should be placed upon its own dedicated shelf of an audio grade equipment rack. If this is not possible the unit may be placed on top of or under other pieces of equipment to a maximum weight limit of 20kg. Due to the products careful screening by way of a large ground plan within the unit, no adverse effects should be caused by this placement. If you have to locate the unit on the floor or in any other location please refer to the safety section of this manual.

Equipment coupling

Once the Mini Sub or Vision is placed connect the unit to a mains wall socket, we recommend that a good quality cable is used and that the wall socket is also unswitched. Turn off all equipment you wish to have a clean mains supply, unplug the cables relating to these from the wall socket or redundant distribution block you may have been using and plug these into the rear sockets of the Mini Sub or Vision. Outputs 1 & 2 (marked with a red dot) have been given a higher power rating and should be used for high current devices, for example power amplifiers, integrated amplifiers, projectors and plasma screens etc. The remaining four are suitable for all other equipment.

System integration

We strongly recommend that a good quality mains cable is used and this cable is consistent throughout your system. Look for a cable with good conductors, for example oxygen free copper, this cable should also have a high degree of shielding from RFI.

D. Troubleshooting

Fuse location



Fault finding

The front panel LED is not lit and the unit gives no power.

Check that the mains inlet fuse is intact, this will be located in the drawer of the IEC socket at the rear of the unit on the left hand side. If there is not a fuse located or you have used up your supply please contact us on 01635 291357 or email support@isoteksystems.com so that we can forward you a free replacement.

Check that the mains cable is securely plugged into the unit and the wall socket.

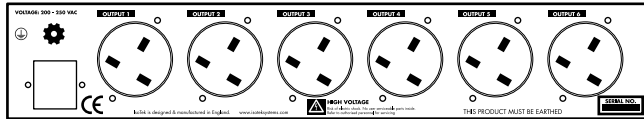
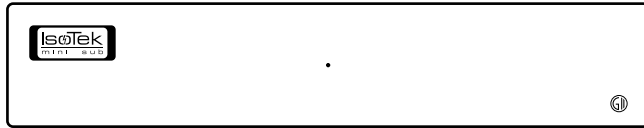
Check the fuse within the plug is intact.

On rare occasions the fuse at the main distribution fuse box may also need to be checked.

The Mini Sub & Vision, in its GII form remains safe even if mains polarity is reversed. However, we would strongly recommend a simple check of mains polarity. Your local IsoTek authorised dealer will be able to supply a product through us to help you establish this. Mains polarity is of particular importance in markets where European Shuko plugs are used.

E. Specifications

Front & rear elevation



Dimensions & sockets

The following information relates only to the IsoTek Mini Sub GII and Vision. These are original products and should not be confused with previous or 'copy cat' models.

Number of outlets: 6
Type of outlets: 13A UK unswitched
Standard mains inlet: IEC fused

Mains voltage: 190 - 260VAC
Maximum current (outlets 1 & 2) 10Amps
Maximum current (outlets 3 to 6) 6.3Amps
Total maximum current 16.3Amps
External mains fuse 6.3Amps (13Amps UK)

Dimensions: 444mm x 85mm x 305mm (WxHxD)
Weight: 7.0Kg

Please note, the information given in this document is correct at the time of print. Small production changes in the course of improvement through our ongoing research and development policy may arise. If clarification of any point is required please refer to your local authorised IsoTek dealer or visit www.isoteksystems.com where you can download the very latest information.

F. Considerations

Product examples



Cabling

We strongly recommend that a good quality mains cable is used and this cable is consistent throughout your system. Look for a cable with good conductors, for example OFC (oxygen free copper). This cable should also have a high degree of shielding from RFI. Outside of the UK it is not uncommon for cables of 6Amps current capability to be connected to a 20Amp outlet. In practice this seems to be a safe arrangement. However we strongly recommend a cable of the full 20Amps carrying capability be used, with a minimum 1.5mm squared.

Third party products

IsoTek produce their own cable in standard 1.5M lengths. All cables feature high quality connectors, OFC conductors and fully earth shielded. This removes any chance of RFI entering the cable. Three versions are available: Premium, Elite & Super Elite. High grade Furutech connectors are used in the Elite & Super Elite designs.

Our new GII range of products work well with all third party equipment including varying cable technologies. If 'off-the-shelf' mains cables are used we recommend the use of Ferrite rings to reduce RFI. We also recommend the use of contact conditioners, for example Caig ProGold or DeoxIT. Isolation devices, feet and cones may also be used. We recommend Clearlight Audio RDC products which we use on our higher end products, for example, Titan.

Upgrades

It is possible to increase the performance of the Mini Sub through ideal location and product placement, the use of isolation devices and contact conditioners for example. The Mini Sub can also be used to run front-end only equipment with one of our dedicated power amplifier products. For example, the introduction of a Titan for that specific purpose. Full details can be found from your local authorised IsoTek dealer or on our web site www.isoteksystems.com