

# I S O L - 8

**Isolate,** *Ī SŌ-lāt*, v.t. to render free from external influence

## SubStation LC

User Manual

# Thank You

## Welcome

Firstly, thank you for purchasing your ISOL-8 SubStation LC. We value your custom.

We strive to design and build world class products that stand the test of time.

By reading this manual you can gain clear understanding of its operation and learn to care for it correctly. In turn, it will reward you with a lifetime of outstanding performance.

Should any part of this manual or the operation of the SubStation LC not be clear to you, please do not hesitate to contact your ISOL-8 dealer. If this is not convenient, please contact us directly.

To find out more about the importance of power supply in high resolution systems, or to view our full range of mains distribution and power conditioning solutions, please visit our website:

[www.isol-8.co.uk](http://www.isol-8.co.uk)

Made in  
England



## Unpacking

**WARNING!** Be careful when unpacking your ISOL-8 SubStation LC. It is heavy; 5.8Kg. Seek assistance if necessary.

Store the packaging safely for future use. It is the ideal method of protecting it from damage during transport.

## Environment

The SubStation LC is cooled by convection. Make sure room temperature air can circulate under and around it.

Do not place objects directly on top of the unit. Allow 20mm of clear space above.

Do not enclose in an unventilated cupboard.

Do not place directly on carpet.

Do not place the unit near sources of heat such as radiators or in direct sunlight.

Avoid abrasive surfaces as they may damage the finish.

A flat, smooth surface is required. A dedicated high performance equipment platform sited away from other appliances is the optimum location.

Make sure the support for the SubStation LC is capable of carrying the 5.8Kg weight.

**WARNING!** Do not place the SubStation LC near liquids, or place liquid-filled containers near the unit.

**If liquid does come into contact with the unit there is serious potential for an electric shock and / or fire hazard. Immediately pull out the mains plug from the wall socket if safe to do so.**

**Contact your dealer to arrange an inspection before further use.**

## Connections

Check the voltage marked on the back of the unit matches your mains supply. Locate the SubStation LC as close to a wall outlet as possible.

Note that a Neutrik PowerCON type input cable is needed.

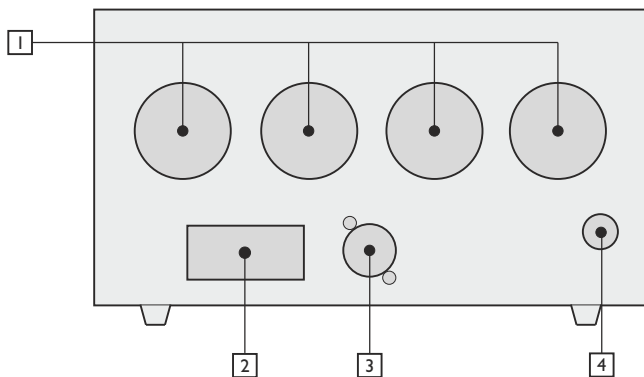
We recommend using high quality power cables to make the connections to and from your SubStation LC. The ISOL-8 range of **IsoLink** cables are ideal for this purpose. They are available in any length to suit your installation and are designed specifically to complement the SubStation LC.

Avoid cables using woven, unscreened construction. They may interact with the on board filters and degrade performance.

Avoid adapters and extension cables and keep overall cable lengths as short as is practical for best results.

The SubStation LC has dedicated, high performance filters for low to medium power loads. Make sure you connect appropriate equipment to each outlet. Failure to do so may lead to repeated breaker tripping and possible damage to the unit.

Rear Panel View



- 1 Low/medium power outlet
- 2 Circuit breaker
- 3 Power input connector
- 4 Earth binding post

It is recommended that all connections are made and checked before applying power.

Equipment connected to the SubStation LC should not exceed a total maximum continuous current draw of 8A.

- 1 Outputs 1 to 4 are “**Low/medium power outlets**” and are for medium to low power source components such as pre amplifiers, optical disc players, DACs, tuners, phono stages, turntables or any other product that do not require heavy continuous or transient power. Each output is individually filtered.
- 2 The “**Circuit breaker**” serves as an on/off switch and protects the unit against over-current or fault conditions. When equipment is connected the breaker will trip if an over-current or fault condition is encountered.
- 3 The “**Power input connector**” provides power to the unit via a Neutrik 20A connector. To connect the input cable; align the two spigots, push firmly in and then rotate clockwise until a latching “click” is heard. To disconnect; grip the plug and pull the silver lever towards you with your thumb and gently twist the plug anti clockwise. Then pull out. For maximum performance it should be connected directly to a wall outlet. Avoid using adaptors or extension cables.
- 4 The “**Earth Binding Post**” allows separate earth wires or an external earth spike to be connected here. This terminal is internally connected to the filtered mains earth. Connections to the earth post are optional and do not affect normal operation.

## Operation

The maximum continuous total load connected to the unit must not exceed 8A.

Once all connections are made and checked the circuit breaker may be switched on. Press the green button firmly in. To switch off press the red button. The “feel” of the red and green buttons are different; this is normal.

In normal operation a LED will light on the front panel indicating power is present.

The SubStation LC can be left powered on a day-to-day basis, but should be switched off if the system is not being used for a significant period of time.

Your SubStation LC provides surge protected, DC free, clean AC mains power for source components using the ISOL-8 Axis circuit and a high performance Transmodal filter for each outlet. See [www.isol-8.co.uk](http://www.isol-8.co.uk) for further technical details.

Also available from ISOL-8 to compliment your SubStation LC and enhance system performance:

The **SubStation HC** provides up to 16Amps of surge protected, DC free, Transmodal filtered AC mains power for high current loads such as integrated and power amplifiers, active speakers, music servers, or any other component that requires high peak currents.

The **SubStation Axis** provides surge protected, DC free AC power up to 16Amps across four outlets using a high power ISOL-8 Axis circuit for any system component.

## Fault Finding

- Front panel indicator not lit and all outputs do not work;

Check that the circuit breaker is in the on position (green button in).

Check that the mains inlet cable is plugged into a wall socket and that the socket's switch is on.

Check that the fuses in the mains lead (if applicable) and consumer unit are intact.

- If the rear panel circuit breaker has tripped, the green button will have popped out. This is the same state as when switched off. To reset push the green button in.

- If the circuit breaker repeatedly trips, there are two possible causes:

1. The connected equipment has a fault: unplug the product from outlet 1 and turn on the circuit breaker. If the breaker still trips, unplug the product connected to outlet 2. Repeat for all remaining outlets. When the circuit breaker turns on without tripping, then the product just unplugged is either faulty or is simply drawing too much current.

2. The unit contains devices that protect against mains power surges and high voltage spikes. In very rare cases an unusually severe event, such as a lightning strike, can cause the unit to repeatedly trip. If the breaker repeatedly trips once the connected equipment has been eliminated as a cause; do not use the unit and contact your ISOL-8 dealer for service.

Your SubStation LC should not need servicing during normal operation. There are no user serviceable parts inside. Do not open or attempt to repair the unit.

If you are in any doubt about any aspect of installation or operation, please consult your dealer, a qualified electrician or contact ISOL-8 directly for advice.

### Cleaning

Dust the unit regularly with a soft cloth or soft brush. For more stubborn marks use a slightly damp cloth with a very small amount of mild detergent such as washing up liquid.

Do not use a wet cloth. Other cleaning or polishing agents should not be used. Never use abrasives or alcohol based agents, they will harm the surface finish.

**WARNING!** Do not allow the unit to become wet when cleaning.

### Specification (subject to change)

Number of outlets:	4
Dimensions:	232*135*420mm (W*H*D excludes connectors) 345*250*550mm (W*H*D Boxed)
Weight:	5.8Kg (7.2Kg Boxed)
Input Voltage:	230VAC version for 220-240VAC 117VAC version for 100-127VAC
Input frequency:	50Hz or 60Hz Nominal
Input socket:	Neutrik PowerCON 20Amp (Mating plug NAC3FCA)
Maximum total continuous current:	8 Amps (shared across all outlets) 8 Amps (any one outlet)
Protection:	Double pole circuit breaker

## Returns

Should it be necessary for your SubStation LC to be serviced, please send it in the original packaging to your dealer. If this is not possible please contact us to obtain a Return Authorisation Number. Returns without this number will not be accepted. If it is not returned to us in its original packaging, ISOL-8 reserve the right to make a nominal charge for packaging by return.



## Disposal and Recycling

At the end of the units working life it must be disposed of correctly. It is made to the highest standards with materials which can be recycled wherever possible. Do not dispose to landfill, contact your dealer or ISOL-8 for information regarding return for correct disposal.

## Declarations

Information given in this document is correct at the time of printing. Our policy of continuous development means any changes might not be indicated in the specification.

This product is guaranteed against defects in material and workmanship for 5 years from the date of purchase in the UK only. Proof of purchase is required and is conditional, terms and conditions are available from ISOL-8 on request. The Guarantee is not transferable and is offered to the original purchaser only. This guarantee does not limit your statutory rights within the country of purchase.

Failure to comply with any of the above instructions during installation or operation will render the manufacturer's warranty null and void.

Marking by the "CE" symbol indicates compliance of this device with the EMC (Electromagnetic Compatibility) and LVD (Low Voltage Directive) standards of the European Community.

Isol-8 Teknologies Ltd  
PO Box 56402  
London SE3 7WQ  
fax: +44 (0) 20 8856 0616  
email: [info@isol-8.co.uk](mailto:info@isol-8.co.uk)  
Please visit our web site: [www.isol-8.co.uk](http://www.isol-8.co.uk)

© Isol-8 Teknologies 2010