

## GUARANTEE

**YOUR EQUIPMENT IS GUARANTEED FOR A PERIOD OF TWELVE MONTHS TAKEN FROM THE DATE OF PURCHASE OF THE PRODUCT AGAINST ANY DEFECTS DUE TO FAULTY MATERIALS OR FAULTY MANUFACTURING. DURING THIS PERIOD, REPAIRS TO THE EQUIPMENT WILL BE CARRIED OUT WITHOUT CHARGE FOR LABOUR OR MATERIALS BY ANY AUTHORISED DEALER OR THE FACTORY SUBJECT TO THE FOLLOWING CONDITIONS.**

1. The fault must be entirely due to faulty materials or faulty manufacture.
2. The defect must not have been caused by bad installation, accidental damage, misuse or failure to comply with the instructions given in this users manual.
3. The equipment must be used solely for audio applications and is subject to fair wear and tear, for commercial usage.
4. If at any time during the guarantee period part or parts of the equipment are replaced with a part or parts not supplied or approved by us or if the equipment has been dismantled or repaired by any person not authorised by the us, then guarantee shall immediately cease and become void.
5. Evidence of the date of purchase (invoice, receipt or finance agreement) must be produced at the service department to obtain the benefit of this guarantee. Any carriage charges relating to the guarantee will be the responsibility of the purchaser.
6. This guarantee applies to the original purchaser only and the equipment must have been purchased or financed from new, the guarantee cannot be assigned or transferred.
7. Any defective part that has been replaced shall become the property of the company and the right is reserved by the company to replace the equipment or repair it at the option of the company.
8. This guarantee applies to equipment purchased and used within the E.E.C. The importers of equipment in non E.E.C. countries are responsible for the guarantee of this equipment. Parts required under guarantee are free. Shipping charges for components will be charged at cost.
9. Knobs, potentiometers, switches and chassis mount connectors are not covered under the terms of this guarantee.
10. The guarantee does not cover equipment that is in industrial use or which are the subject of rental or hire agreement.
11. The guarantee shall become void if the equipment is at anytime used on any supply circuit or voltage range other than that specified on the equipment.
12. THIS GUARANTEE DOES NOT IN ANY WAY AFFECT YOUR STATUTORY RIGHTS AS A CONSUMER WITHIN THE E.E.C.

**SC600X**

**DUAL CHANNEL DE LUXE  
SYSTEM CONTROLLER  
& AURAL SCINTILLATER**

## OWNERS MANUAL



*For  
WORLD WIDE  
OPERATION*

**Hz**  
**SOUND - SYSTEMS**

**Hz INTERNATIONAL LTD COMBE HOUSE - STOKE ST MICHAEL - BATH - SOMERSET - ENGLAND**

**SC600X DELUX SYSTEM CONTROLLER & AURAL SCINTILLATER**

Although the system controller is a rugged piece of professional audio equipment, it is also a high specification modern electronic assembly and should be handled with care.

The packaging of the unit is specifically designed to safely transport this product. In the unlikely event of the product requiring servicing, this packaging is the safest way to transport it.

All units are factory set for 220-230v operation.  
Units factory made for 100/120V supply are clearly marked on the back and should **not** be connected to any higher voltage power source.

#### PLACING THE CONTROLLER

This system controller has been designed for rack mounting use, in a Racking enclosure made to BS5954, IEC297 or Din 41494 standards.

#### FITTING A POWER LEAD & PLUG

The wires in the IEC/CEE mains lead are coloured: Earth: Green/Yellow Neutral: Blue Live: Brown

As these colours may not correspond with the colour markings identifying the terminal in your plug proceed as follows:

The green/yellow wire must be connected to the terminal which is marked with the letter E or coloured Green.

The brown wire must be connected to the terminal which is marked with the letter L or coloured red.

The blue wire must be connected to the terminal which is marked with the letter N or coloured black.

#### CONNECTIONS

At the back of the system controller you will find the following connection sockets:-

- A. Mains inlet: To connect the unit, via a mains lead, to the mains power supply.
- B. Mains fuse: 200mA QB 20mm.
- C. Input XLR's: Input to the controller
- D. Output XLR's: For output connection to the power amplifiers.

Connecting the input signal:- The input signals maybe connected into either the XLR on both channels. The signals may come from any suitable line level output, eg., mixer or another amplifier (link output). All input connections must use shielded/screened cables. **DO NOT CONNECT WITH SPEAKER CABLES.**

Connecting the output signal:- Output connection to power amplifiers is via the Left and Right Hi & Full and the two Sub Bass XLR outputs.

Both inputs and outputs are electronically balanced for those who require this facility, but can be used unbalanced with pin 3 grounded. For balanced line input the connections are : pin 2 'hot', pin 3 is the balanced or 'cold' signal and pin 1 is ground or screen.

**PLEASE NOTE THIS UNIT MUST BE USED AS A LOW LEVEL SIGNAL PROCESSOR AND MUST NOT BE CONNECTED TO THE OUTPUT STAGE OF ANY POWER AMPLIFIERS OR LOUDSPEAKER ENCLOSURES.**

Connecting the mains lead:- Fit the female plug of a mains lead into the connection socket on the amplifier and the male plug into a suitable mains supply socket.

#### OPERATION

Your system controller is now ready for use. Before attempting to operate it, however, it is advisable to familiarise yourself with the functions of the controls.

- 1. Power switch: Isolates unit from the line supply.
- 2. Power on: When illuminated indicates power is applied to unit.
- 3. Limiter LED : Indicates this function is operating
- 4. Bi-Amp LED : Indicates this function is operating
- 5. Boom Elim LED :Indicates this function is operating

#### FUNCTIONS

BASS LIMITER: selection of this function will limit all bass frequencies below 130Hz to a maximum output of 0dB at whatever input signal level is present. The process does not effect the headroom of signal content above 130Hz. This function has been designed to prevent the overdriving of power amplifiers.

1.

BI-AMP MODE: selection of this function will roll off bass frequencies below 100Hz to the full range outputs. The sub bass outputs are in mono and features a low pass roll off filter at 150Hz. Giving ideal turn over frequencies for bi-amped systems.

BOOM ELIMINATOR: this function is designed to be used when ringing bass frequencies occur. To use this feature depress switch and move NOTCH DEPTH control to -10dB, then slowly sweep the FREQUENCY RANGE control until the boom frequency decreases. Normally only a few dB is necessary, however up to -30dB is available should it be required.

#### CONTROLLER MAINTENANCE

The SC600 contains no use serviceable parts inside. Maintenance should be mainly preventative, taking care to follow previous instructions, to ensure long term reliability. Due attention should be paid to the condition of all signal and mains interconnection leads and connectors. If required the outside of the unit can be cleaned using a damp, lint free cloth. Do not clean using solvents, detergents or abrasives.

#### FAULTS AND THEIR LIKELY CAUSES

Although the greatest care has been taken in the manufacture of the controller, the possibility remains that faults could occur during use or difficulties could be experienced during initial installation.

The cause, however, will rarely be found to be internal to the circuit. Below is a list of symptoms and possible causes. Some of the suggested causes may appear obvious but they can be easily overlooked.

Under no circumstances should you open the controller; this is dangerous, will expose high voltages, and will invalidate all rights under the guarantee..

1. After turning on the 'power' switch the 'power' indicator does not light-

The mains plug is not pushed far enough into the controller.

There is no supply at the mains socket.

Check using an alternative electrical appliance.

The mains fuse is broken, located on the rear of the controller, replace using 200mA quick blow 20mm fuse.

2. No sound is heard-

No input signal connected to input socket.

No speakers connected to output sockets.

Wrong connections to jack plug see - 'Connections' paragraph 5 3.

3. Output sounds distorted, fuzzy or distant -

The leads are shorted, either due to faulty connection of plug or damaged cables.

Unbalanced signal being used without grounding pin 3 on one or more of any XLR connectors in the preamp system.

**DO NOT**  
**SWITCH or LINK + & - TERMINALS**  
**IF IN DOUBT CALL HELP LINE**  
**PLEASE REMEMBER YOUR SYSTEM IS**  
**ONLY AS GOOD AS ITS WEAKEST POINT**  
**THIS IS GENERALLY**  
**THE HOOK UP WIRES**  
**NEARLY ALL SOUND SYSTEM**  
**FAULTS CAN BE TRACED BACK**  
**TO POOR WIRING CHECK**  
**ALL YOUR CABLES REGULARLY**  
**HELP LINE (UK) 44 1749840102**

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