

GUARANTEE

YOUR EQUIPMENT IS GUARANTEED FOR A PERIOD OF THREE YEARS 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.
1. 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 Ch A 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 CH AS AS A CONSUMER WITHIN THE E.E.C.



**DUAL CHANNEL DE LUXE
SYSTEM CONTROLLER**

OWNERS MANUAL



For
WORLD WIDE
OPERATION



THE INFORMATION CONTAINED IN THIS MANUAL IS CORRECT AT THE TIME OF GOING TO PRESS, HOWEVER IN LINE WITH HZ'S POLICY OF CONTINUAL DEVELOPMENT SOME OF THE DETAILS MAY CHANGE ON FUTURE MODELS.

E & OE

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

SC700 DELUX SYSTEM CONTROLLER

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.

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

CONNECTIONS

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

- Mains inlet: To connect the unit, via a mains lead, to the mains power supply.
- Mains fuse: 200mA QB 20mm.
- Input 2 x Female XLR's: Input to the controller
- Output 4 x Male XLR's: For output connection to the power amplifiers.
- Ground Isolation Switch: Couples or de-couples the input ground, to avoid hum loops when racking these units.

INPUT CABLES

This signal may come from any suitable line level output, e.g., mixer, zoner etc., All input connections **must** use shielded/screened cables.

All the inputs are **BALANCED** for low noise and to give high quality from this professional equipment, but can be used with **UNBALANCED** sources by using the wiring of the Female XLR connectors as shown.

A. = Unbalanced Male XLR B. = Balanced Male XLR

OUTPUT CABLES

Connecting the outputs should be made by using a Female XLR's All the outputs are **BALANCED** for low noise and to give a high quality signal from this equipment, but they can be used with **UNBALANCED**

C. = Unbalanced Female XLR D. = Balanced Female XLR

DO NOT CONNECT WITH SPEAKER CABLES.

All inputs and outputs are electronically balanced for those who require this facility, but can be used unbalanced **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.

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

FUNCTIONS

VOCAL ENHARNCE: harmonic frequency boost to lift and clarify the vocal range.

SUB-BASS LIMITER: limits bass frequencies below 130Hz with selectable threshold of 0dB or +4dB - designed to prevent the overload of power amplifiers and sub-bass speakers. This process is not compression and does not affect the signal content above 130Hz.

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.

VARIABLE CROSSOVER NETWORK : Bass output of this controller can now be varied between 60Hz & 300Hz

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 SC700 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..

- 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.

- No sound is heard-

No input signal connected to input socket.

No speakers connected to output sockets.

Wrong connections to plug see - 'Connections'

- 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