



# S-TYPE 500

## USER'S MANUAL

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Please read all of the following instructions and save them or later reference before attempting to connect this unit to the Power DC Supply.

**COVERS**

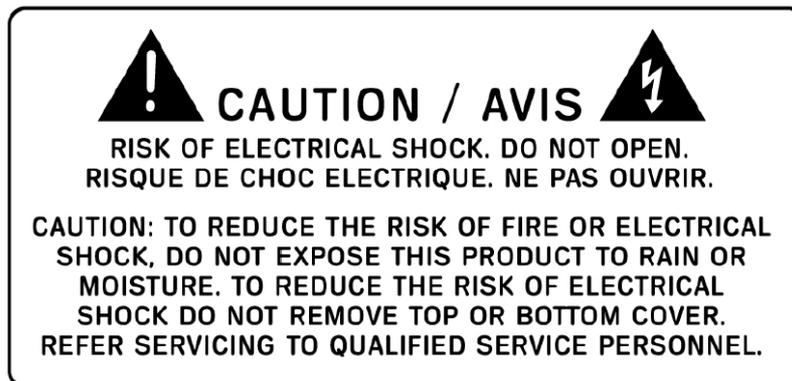
**DO NOT** remove the covers or try to repair the module on your own. Refer servicing to qualified personnel only.

**MOISTURE**

**DO NOT** expose the unit to rain or moisture. If the unit should become so exposed **TURN OFF** the device immediately.

**HEAT**

**ALWAYS** site the unit away from sources of heat including direct sunlight and ensure adequate ventilation around the unit.



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**Thank you for buying this IGS Audio product.**

Please read the information provided below very carefully before using your IGS unit.

## **Unpacking**

Your S-TYPE 500 has been carefully and meticulously tested and inspected before dispatch. Please check for any signs of transit damage. If any signs of mishandling are found please notify the carrier and your dealer immediately.

Your S-TYPE 500 packing should contain an S-TYPE 500 with IGS Audio tag (packed in ESD bag) and this manual with the Warranty and RoHS/CE/WEEE Declaration attached.

## **Compatibility and Power**

The S-TYPE 500 module is designed to be installed into an API™ 500 Series compatible rack and cannot function stand alone, requiring the power source supplied by the rack system.

The current consumption of the S-TYPE 500 is rated at 150 miliamperes per slot. It is a stereo module, so it takes up two rack spaces. Please check with the rack manufacturer that the design can meet the S-TYPE 500 requirements.

## **Mounting**

**WARNING!** Never plug or unplug any 500 series module with the power supply switched on. You may destroy your unit permanently!

The dimensions of all IGS Audio 500 series modules are compatible with API standard. When plugging your new unit to the 500-series rack, no unnecessary force is needed. However, please be careful and do not rush while pushing the unit into the rack sockets, to avoid damaging of the connectors and/or the PCBs of either the unit or the rack.

After the unit is placed in the rack, use the screws provided with your 500-series rack unit to make sure that the unit is safely placed.

When removing the unit from the rack, unscrew the front panel from the rack, and use your fingers to pull it out gently. Do not use any sharp objects (i.e. knives or screwdrivers) to prize it.

## IGS AUDIO S-TYPE 500 – stereo VCA compressor

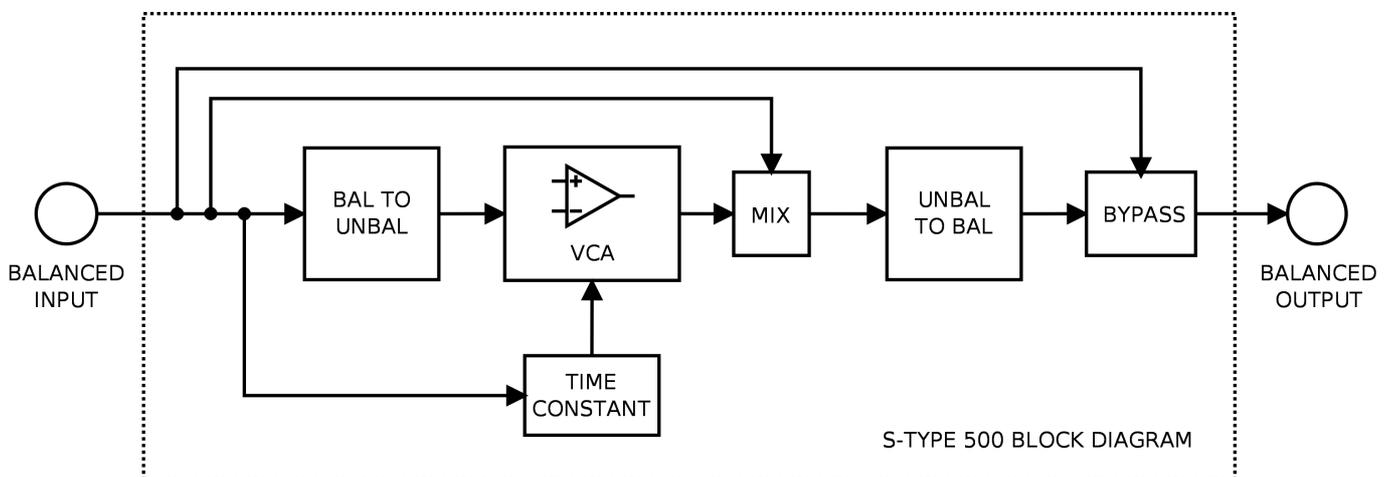
The S-Type is a typical VCA compressor well known as the core of the legendary British sound. The heart of the compressor is the THAT chip instead of the now unavailable DBX. The analogue path is balanced with ultra-fast op-amps. This is the source of completely transparent sound. A minimal level of noise allows the device to be used in recording classical music, including long range recording. The main new feature of the S-Type is the Sidechain HPF regulation. This allows the user to select the lowest frequencies which will not be compressed and more precisely control the bass and dynamics of the mix. Overall the S-Type is a very creative device.

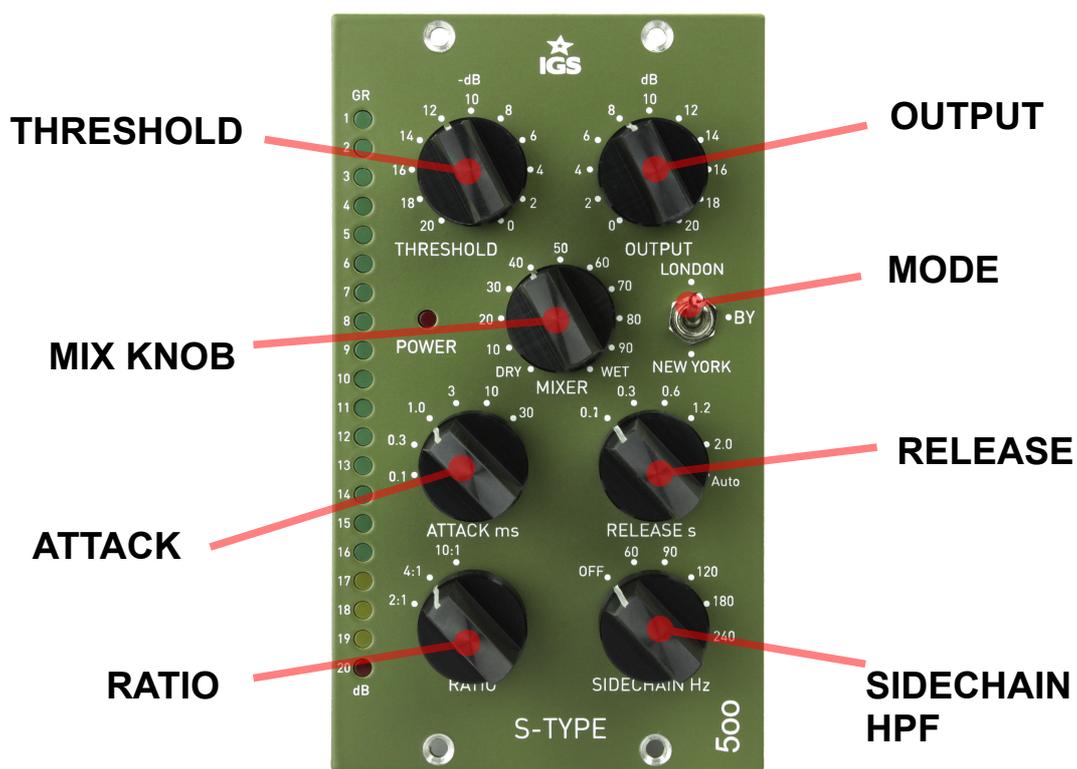
### Typical usage:

- Great summing and mastering compressor
- Beat compressor for external drum machines
- Drum compressor for live drums
- Can be used to compress single stereo instruments (pads, leads)
- Mono compression, using external side-chain

The S-Type is a precision dynamic range controller intended for use in the most demanding professional audio applications. RMS detection, high headroom input circuits and output drivers, give the S-Type its own sonic excellence.

### Block diagram





**VU METER** Big VU meter showing the amount of gain reduction.

**THRESHOLD** Above this level of the input signal the compression will occur. Use it to control the amount of compression.

**SIDECHAIN HPF** This switch applies the high pass filtering to the sidechain circuit. It allows to avoid the „pumping” sound of ie. the kick drum – low frequencies will not trigger the compressor.

**RATIO** Allows to adjust the compressor ratio. From 2:1 (soft compression) up to 10:1.

**ATTACK** Time delay between the appearance of the signal and the compressor reaction.

**RELEASE** Time delay between the disappearance of the signal and the compressor reaction.

**MODE** You can either bypass the whole unit or use London or NewYork style of compression.

**MIX** Wet/dry mix knob. Allows the parallel compression to be used.

## **Work Modes (London vs New York)**

The S-TYPE 500 compressor is equipped with two sidechain circuit settings. The first one called 'London' (selectable with the LONDON – BY – NEW YORK switch) is a stereo mode. Two channels of the unit are being summed up and used to control both VCA stages.

In 'New York' mode only the left channel is being used to control both VCA stages. That allows you to use the S-TYPE 500 as a mono side-chain compressor where the signal at the left input controls the amount of the compression applied to the right channel.

## **Troubleshooting**

### **My unit doesn't power up (POWER LED is dark):**

- Check if the power supply is turned on

### **My unit doesn't light up (LED bar is dark):**

- Make sure that the signal source is properly connected to the module
- Adjust the threshold level (using the THRESHOLD knob); insufficient input level might cause that the signal level is below the compressor threshold level
- Make sure that the mode switch is in LONDON or NEW YORK position

### **The signal plays thru but there is no change in signal when i turn the knobs:**

- Make sure that the mode switch is in LONDON or NEW YORK position
- Turn the MIX knob clockwise (WET) – it will allow the compressed signal to be more audible

### **No signal plays thru the unit, regardless the settings at the front panel:**

- Make sure that the signal source is properly connected to the module

### S-STYPE 500 main functions and technical specification:

- ✓ Double 500-series stereo module
- ✓ All stepped manipulators (excl. Mix)
- ✓ Parallel Compression
- ✓ Precise LED bar scale
- ✓ 3 year warranty

Operating Level	+4dBu
Sidechain Filter	OFF, 60, 90, 120, 180, 240Hz
Maximum Output	+21 dBu
Max Gain Reduction	20 dB
Maximum Gain	20 dB
Attack Time	0.1 - 30ms
Release Time	0.1 – 2s + auto
Input impedance	10 kOhm
Output Impedance	10 kOhm
Frequency response	5Hz to 20kHz; +/- 0.1dB
Noise level dBA	-102dB
THD+N @0dBu	0.012%
Power consumption	4.5 Watts
Shipping weight	0.7kg
Dimensions	H 13,3cm x W 7.6 cm x D 15,8cm

## **Warranty:**

**This device is declared to be free from defects in material and workmanship for a period of three years. Any device found defective within three years from the delivery date and returned to the factory, will be repaired, adjusted, or replaced and sent to the customer with no charge. The customer always pays the shipping cost to us. This warranty does not cover expendable items such as tubes or fuses. If the defect has been caused by a misuse or abnormal operation conditions, the repair will be billed at a nominal cost. The product should be returned in its original package, if this is possible, or packed in such a way that it is not damaged during the shipment. We are not to be held responsible for any damages during the shipment. 19" units shall always be packed in a box with support for the rack ears. All 500 series modules need to be secured in ESD bag and protected with foam. We will charge the customer €20 + VAT if the packing material needs to be replaced. If we find that the product works perfectly, the customer will be invoiced €50 + VAT to cover our costs of examination and handling plus the cost for returning the product to the customer.**

