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The "Scion" Owner's Manual

Firstly, let us congratulate you on your purchase of the "Scion" from the Nicerizer family of summing mixers. We know you will be as pleased with its sonic qualities as we are.

You are now the proud owner of a "Scion" that has the advantages of more than 25 years experience in audio engineering, today's component and manufacturing technology, but still retaining "that sound" uniquely achievable through Class A design.

As you can tell, Phoenix Audio is dedicated to the development of Class A discrete technology used within high build-quality equipment.

The "Scion" was originally conceived because of the demand from customers for something that would "sweeten" the output from Digital Audio Workstations, and to make the final mix easier to distribute and handle.

The "Scion" is designed to take the output out of the digital realm, and to add the Class A characteristics and feel before the final recording.

The ""Scion"" uses our well proven and loved Class A output stage (DSOP-2), but also has our latest breakthrough in transformer-less Class A, Discrete Input Technology which gives a "valve-like" sound, and our Class A, Discrete, Virtual Earth mixing stage, and Unique Class A Discrete Stereo Width mixing stage.

You CAN hear the difference !!

The “Scion” is a 2U, 19" rack mountable 16 channel Input unit, which can be stacked and linked up to 6 units.

Applications: **Range from "digital sweetening" to source routing, to DAW mixing and from studio to stadium.**

Specifications:

- 16 channels of our Class A, discrete, truly balanced transformer-less input
- stage.
- Our proven and loved Class A, discrete, transformer balanced output stage (DSOP-2).
- Class A, Discrete, High Gain, Inverting (Virtual Earth) Mixing stage.
- Individual 21 postion stepped pan control for each channel (16 x Pan pots).
- 2 x Balanced D-sub inputs (8 channels per D-sub input). Can accept balanced or unbalanced input with no -6dB loss.
- ¼” Bus Link on Busses (Linking two units for 32 channel matrix)
- ¼” TRS Inserts on Busses (L + R Bus Insert points).
- Drive function button on each channel.
- Master mix bus output attenuated level control.
- Clean mix bus output attenuated level control.
- Mix level mix bus output attenuated level control.
- Transformer Mix control, mixing between clean & colour outputs.
- Main Outputs on Balanced TRS's Jacks.
- Clean Outputs on ¼” Balanced TRS Jacks.
- Mix Outputs on ¼” Balanced TRS Jacks.
- Super iron Outputs on ¼” Balanced TRS Jacks.
- Class A Stereo Width control with Loss-less Bass. Pan-able from mono through to +25% Wider + Width control Bypass switch.
- Huge headroom available on all channels. Input Headroom +26dB. Output Headroom +26dB on main outputs.

Overview:

The Input signal is fed to the “Scion” via the Input D-sub’s on the rear panel. The input signal is panned by the associated pan control on the front panel and can be monitored by selecting the associated channel on the Monitor control on the front panel.

All connections to the “Scion” are wired as follows:

¼” (6.35mm) TRS Stereo Jack Sockets: Tip – Hot (signal +ve), Ring - Cold (signal –ve), Sleeve- Ground.
¼” (6.35mm) TRS Bus Insert Jack Sockets: Tip – Send, Ring – Return, Sleeve – Common.
¼” (6.35mm) TRS Bus Link Jack Sockets: Tip – Hot (signal +ve), Ring - Cold (signal –ve), Sleeve- Ground

Rear Panel Connections:

Inputs:
On the rear panel there are 2 rows of D-sub inputs 1 – 8 & 9-16. These correspond with the Pan controls and monitor control on the front panel. These are Balanced D-sub Inputs, but are equally capable of accepting an unbalanced signal without the 6dB loss often associated with sending an unbalanced signal into a balanced input.

¼" TRS Jacks on Rear Panel:

Inserts:
There are two TRS ¼" Jacks marked Insert L and R. These are unbalanced inserts to allow you to insert outboard equipment across the busses (such as a compressor). The inserts can be used as unbalanced or balanced inserts, providing the correct cable is used. (see connections and functions for wiring detail).

Bus Link :
There are two TRS ¼" Jacks marked Bus link L and R, this enables you to link two units together for a true 32 channel matrix system, to enable the Bus Link, one unit must become a slave unit by pressing in the Red Illunimated switch and one unit becoming the master unit.

Main Outputs:
There are 2 x Main outputs, the TRS outputs are labelled Output L and R. These provide access to the 2 mix busses which are transformer-balanced Outputs driven by our Class A, Discrete DSOP-2 Output stages, and can be used in either balanced or un-balanced mode. These outputs can also be chained to any number of pieces of external equipment as long as total loading does not exceed 600R.

Clean Outputs
There are 2 x Clean outputs, the TRS outputs are labelled Output L and R. These provide a pure Class A discrete output with no transformer for a much cleaner signal path than the main outputs.

Mix Outputs
There are 2 x Mix outputs, the TRS outputs are labelled Output L and R. These provide a balance of the Clean pure Class A discrete output mixed with the main transformer output, the mix output level control allows control of the mix output level, the balance of whether the signal level is clean or colored is controlled by the front panel mix control.

Super iron Outputs
There are 2 x super iron outputs, the TRS outputs are labelled Output L and R. These provide a double transformer output for extra saturation & color, the bus mix control must be set to color for these to be accessed.

Front Panel:

Pan Controls
The front panel has 2 rows of 21 position stepped Pan controls numbered 1 - 16 associated with the
Input XLR's on the rear panel. Each channel is individually controlled and can be panned From Left to Right, and anywhere in between.

Drive Push-button switches
Between the rows of Pan controls there is a row of white Push-button switches marked with the word 'drive', this is our special drive technology. Each switch is associated with an individual channel and pressing a switch will drive the input of that channel into the Class A circuitry & transformers and will fatten & saturate the sound, this will also increase the input signal level by 8db.

Stereo Width Control and Toggle switch
The Stereo Width control is a Class A, Discrete, lossless-bass circuit that can be used to control the perceived "width" of the stereo image. The control only affects the output of the signal after the bus (it has no effect on individual channels before the bus). The width control will alter the image from mono, round to approximately 25% wider than the original image sent to the busses.
The stereo width toggle switch can be used to bypass the width control so that the control has no effect on the stereo image regardless of its position.

Main Output Level Control
The Main Output Level control is attenuated and is used to adjust the Main Output Level of the unit on the main Output connectors. You can turn this control almost all the way to its maximum position and still be sure that the Output will not clip! The main output control will also effect the mix outputs.

Clean Output Level Control
The Clean Output Level control is attenuated and is used to adjust the Clean Output Level of the unit on the clean output connectors.

Mix Output Level Control
The Mix Output Level control is attenuated and is used to adjust the Mix Output Level of the unit on the mix output connectors, you will need to use the main output control to get a good level before using the mix control otherwise noise will be created so good staging is critical.

Transformer Bus Mix Control
The Bus Mix control smoothly mixes the signal between the pure Class A clean outputs and the double transformer Colored outputs, you can use either of the extremities or somewhere in between the two different outputs.

Mains switch.
Switching this switch into the ‘ON’ position so that the I position is depressed and has a profound effect on the sound quality and gain of the unit. This is best left in the “ON” position for normal use. ☺