



SA-16 - USER MANUAL

IMPORTANT SAFETY INSTRUCTIONS



The lightning flash with the arrowhead symbol, within an equilateral triangle, is to alert the user to the presence of non insulated dangerous voltage within the products enclosure that may be of sufficient magnitude to constitute a risk of electric shock to humans.

The exclamation point within an equilateral triangle is intended to alert the users to the presence of important operating and maintenance.

All the following safety and operating instructions should be read before operating the unit.

Caution to reduce the risk of electric shock

- Do not remove the top cover (or the rear section). No user serviceable parts inside. Refer servicing to qualified personnel.

Caution to reduce the risk of fire or electric shock

- Do not expose the equipment to rain and moisture.
- The equipment shall not be exposed to dripping or splashing liquids and no objects filled with liquids shall be placed on the equipment.
- To reduce the risk of electric shock do not perform any servicing other than that contained in the operation instructions.
- Repairs have to be performed by qualified service personnel.
- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this equipment near water.
- Clean only with dry cloth.
- Do not block any ventilation openings.
- Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources

- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the equipment.
- Use only attachments/accessories specified by the manufacturer.
- Unplug this equipment during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the equipment has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the equipment, the equipment has been exposed to rain or moisture, does not operate normally, or has been dropped.
- The equipment shall be connected to a MAINS socket outlet with a protective earthing connection.
- Correct disposal of this product: This product must not be disposed of with household waste, according to the WEEE Directive (2012/19/EU) and your national law. This product should be taken to a collection center licensed for the recycling of waste electrical and electronic equipment (EEE). The mishandling of this type of waste could have a possible negative impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. At the same time, your cooperation in the correct disposal of this product will contribute to the efficient use of natural resources. For more information about where you can take your waste equipment for recycling, please contact your local city office, or your household waste collection service.
- Do not install in a confined space.
- Do not place naked flame sources, such as lighted candles, on the equipment.
- 20. Please keep the environmental aspects of battery disposal in mind. Batteries must be disposed-of at a battery collection point. 21. Use this equipment in tropical and/or moderate climates.
- Stam Audio accepts no liability for any loss which may be suffered by any person who relies either wholly or in part upon any description, photograph, or statement contained herein. Technical specifications, appearances and other information are subject to change without notice.

1.0 INTRODUCTION

The SA-16 is a modern, state-of-the art, active summing amplifier capable of providing the character from two legendary *flavors* of the 70's; accomplished by switching between two fully discrete, independent output stages.

Every audio signal goes through a THAT CORP 1240 chip as a line receiver; from there the signal goes into the summing circuit, centered around a 134 Op-Amp which is recognized as the best integrated Op-Amp on the market. Finally, the signal reaches the output stage; where you can select between three different flavors: a clean & wide solid state choice (as found on the Oxford consoles), an "A" styled 2520 Op-Amp based output section as found on vintage American consoles (in your face, punchy and tight) and an "N" styled BA-440 output section (as found on the legendary 33609) giving you instant "British" vibe & attitude!

The SA-16 features three balanced stereo insert points; allowing you to add your favorite external units (such as compressors, limiters, and equalizers). A fully stepped output level control and three selectable output stages (Standard, British and American MODs) round-out the features of the SA-16!

1.1 COMPONENTS OVERVIEW

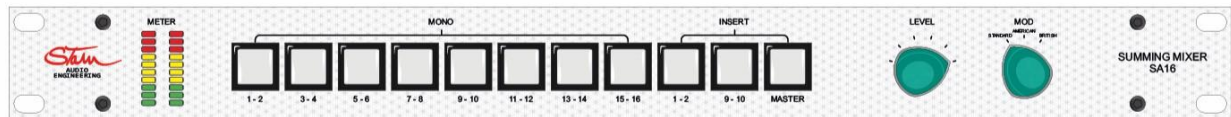
- Individual channel THAT-CORP line drivers with InGenius technology
- Audio grade relay switching system
- Precision metal film resistors and Vishay capacitors
- UTM audio transformers

- Fully discrete output stages on British and American mods
- Sifam Knobs / VU Meter

1.2 FEATURES

- 16 true balanced mono input channels
- individual MONO button on each input pair
- true balanced, stereo insert points on input pair 1-2 , 9-10 and Master output.
- 3dB stepped output level control
- 3 selectable output stages (MOD)
- Additional Stereo Aux input
- Additional Stereo Aux output
- External power supply
- Output level meter

2.0 CONTROLS



2.1 MONO:

Routes the selected stereo input pair to the center, following the equal power pan law.

2.2 INSERT:

Routes the selected signal pair to the SEND/RETURN connections (see the CONNECTIONS section for the DB25 pinout), allowing to connect an external outboard as a true balanced insert.

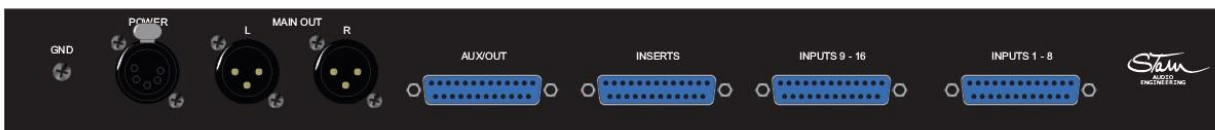
2.3 LEVEL:

A stepped output level control (3dB each step), from -9 to +6.

2.4 MOD:

Select 3 completely independent output stages (Standard, American, British)

3.0 AUDIO CONNECTIONS



INPUTS 1-8

Inputs channels 1-8 ascending, according to Tascam D-SUB25 standard

INPUTS 9-16

Inputs channels 9-16 ascending, according to Tascam D-SUB25 standard

INSERTS

1-2 : INSERT CH.1 SEND/RETURN

3-4 : INSERT CH.2 SEND/RETURN

5-6 : INSERT CH.9 SEND/RETURN

7-8 : INSERT CH.10 SEND/RETURN

AUX/OUT

1-2 : STEREO AUX OUT (COPY of L-R)

3-4 : MASTER OUT LEFT INSERT SEND/RETURN

5-6 : MASTER OUT RIGHT INSERT SEND/RETURN

7-8 : STEREO AUX IN

