

Audio Signal Modification Unit User Manual And Technical Reference



In this our 20th year of operation, and on behalf of the entire company; I would personally like to express my deepest gratitude for your continued support of our products and services.

Here at Acoustic Research, we pride ourselves in the quality of our instruments and ensure that every one meets the high standards that our customers deserve. I have no doubt, that the equipment that you have received today will meet those standards just as they did 20 years ago.

I wish you the greatest success in your research

James Chaffinch
James Chaffinch, CEO

References in this publication to Acoustic Research products, programs, or services do not imply that Acoustic Research intends to make these available in all countries in which Acoustic Research operates. Any reference to an Acoustic Research product, program or service is not intended to state or imply that only Acoustic Research's product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any of Acoustic Research's intellectual property rights or other legally protectable rights may be used instead of the Acoustic Research product, program, or service. Evaluation and verification of operation in conjunction with other products, programs, or services, except those expressly designated by Acoustic Research, are the user's responsibility.

Acoustic Research may have patents or pending patent applications covering subject matter in this document. The furnishing of this document does not give you any license to these patents. You can send license inquiries, in writing, to an Acoustic Research authorized dealer or your Acoustic Research marketing representative, who will be able to forward on the request.

The following terms in this publication are trademarks of Acoustic Research Inc. In the European Union and/or other countries / economic areas.

- Acoustic Research

This publication could include technical inaccuracies or typographical errors. Changes are periodically made to the information herein; these changes will be incorporated in new editions of the publication. Acoustic Research may make improvements and/or changes in the product(s) and/or the program(s) described in this publication at any time.

It is possible that this publication may contain reference to, or information about, Acoustic Research products (machines and programs), programming, or services that are not announced in your country. Such references or information must not be construed to mean that Acoustic Research intends to announce such Acoustic Research products, programming, or services in your country.

Requests for technical information about Acoustic Research products or services for those products, whether they be repair, maintenance or upgrade; should be made to your Acoustic Research authorized dealer or your Acoustic Research marketing representative.

This product's connections follow the Coordinated Universal Interworking Standard (CUIS) and as such can be used with any other product from any manufacturer that also adheres to this standard.

© Copyright Acoustic Research Inc. 1981. All rights reserved

Document version 1.3

Contents

Description	1
Interface	3
Unit Specifications	5

Description

The Stream Adder audio signal modification unit allows a user to mix together two audio streams based on a simple mathematical function:

output =
$$(mix \times input A) + ((1 - mix) \times input B)$$

The two audio streams are summed together proportionally, such that it is not possible for the resulting signal to exceed the highest value of either stream. From the equation above, one can see that a 'mix' value is used to control the relative strength of each signal. This 'mix' value is limited to between 0 and 1.

The device also comes with a method of controlling this 'mix' value by external voltage control or audio signal.

Interface

Audio Signal Output
 The audio signal output connection

CUIS type: Orange

2. Control Select

This switch is used to select between using the dial/voltage input pair (3 and 4), or Audio Signal Mix input (5)

3. Voltage Mix Control

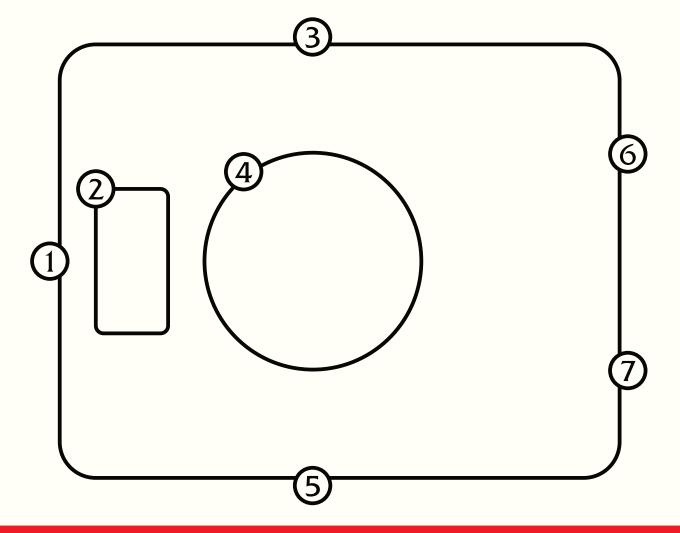
CUIS type: Green

4. Mix Dial

Used for manually selecting the mix value

5. Audio Signal Mix Control

CUIS type: Orange



6. Audio Signal Input A
The audio signal output connection for stream A

CUIS type: Orange

7. Audio Signal Input B
The audio signal output connection for stream B

CUIS type: Orange

Unit Specifications

