

## *Installation and Operation Manual*



### **ACT-2** *Audio and/or Composite Transformer*

Manual Update: 2/29/2008

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## INTRODUCTION

Thank you for your purchase of the Broadcast Tools® ACT-2, Audio and/or Composite Transformer, which we will refer to through out the manual as the ACT-2. We're confident this product will give you many years of dependable service. This manual is intended to give you all the information needed to install and operate the product.

## SAFETY INFORMATION

Only qualified personnel should install Broadcast Tools® products. Incorrect or inappropriate use and/or installation could result in a hazardous condition.

Broadcast Tools, Inc., is unable to support NON-Broadcast Tools software, hardware or NON-Broadcast Tools computer/hardware/software problems. If you experience these problems, please research your hardware/software instruction manuals or contact the manufacturers technical support department.

## WHO TO CONTACT FOR HELP

If you have any questions regarding your product or you need assistance, please contact your distributor from whom you purchased this equipment.

If you would like more information about Broadcast Tools® products, you may reach us at:

### **Broadcast Tools, Inc.**

131 State Street  
Sedro-Woolley, WA 98284-1540 USA  
Voice: 360.854.9559  
Fax: 866.783.1742

Internet Home Page: [www.broadcasttools.com](http://www.broadcasttools.com)  
E-mail: [support@broadcasttools.com](mailto:support@broadcasttools.com)

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BROADCAST TOOLS® BRAND PRODUCTS!***

Broadcast Tools is a Veteran Owned Business



Designed, Assembled and Supported in WA State, USA



**CAUTION!**

**Broadcast Tools®** Products, as with any electronic device, can fail without warning. Do not use this product in applications where a life threatening condition could result due to failure.

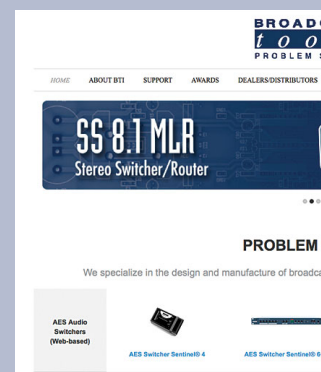


**NOTE:**

This manual should be read thoroughly before installation and operation.

### **WEBSITE:**

*Visit our web site for product updates and additional information.*



## Installation

Please examine your ACT-2 carefully for any damage that may have been sustained during shipping. If any is noted, please notify the shipper immediately and retain the packaging for inspection by the shipper. The package contains the ACT-2, 7.5 or 9 VDC wall power transformer and this manual.

Installation of the ACT-2 in **high RF environments** should be performed with care. Shielded cable is suggested for all I/O connections. All shields and the station ground should be connected to the “GND” terminal. It is recommended that all cables connected to the

ACT-2 is looped through ferrite cores to suppress RF. Surge protection with RF filtering such as the Tripp-Lite “ISOBAR 4 or 6” is also suggested for the wall transformer.

### Terminal connections/pin-out:

Pin 1 = - LT, negative left audio input (BNC shield).

Pin 2 = + LT, positive left audio input (BNC center conductor).

Pin 3 = - RT, negative right audio input.

Pin 4 = + RT, positive right audio input.

Pin 5 = LT, left DC output (referenced to GND).

Pin 6 = RT, right DC output (referenced to GND).

Pin 7 = GND, Ground

Pin 8 = Unregulated (**PLUS**) 7.5 to 9 volts **DC only. (wire with the white stripe).**

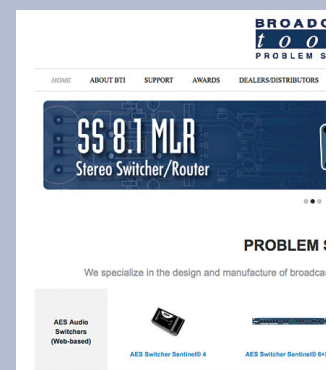
**NOTE: If the source equipment feeding the ACT-2 is unbalanced, install a jumper between the - LT or - RT terminal and GND.**

## Setup

Feed audio of -26dBu or greater into either of both audio inputs. Adjust the LT or RT Level controls for the desired DC output. The corresponding LED will illuminate at levels greater than -10dBu.

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## Specifications

Input Level	+4 dBu. MIL+24dBu, balanced, bridging 20k $\Omega$ .
DC output voltage	Adjustable from 5 volts DC to zero.
Connectors	Plug-in euroblock screw terminals and left channel BNC.
Power Requirement	7.5 to 9 VDC only, 1 Amp, wall trans- former, supplied. Internal power supply surge protected.
Size	2.60" x 4.25" x 1.12", Plastic enclosure with aluminum end panels.
Weight	2.0 lb.
Options	RA-1, Rack Shelf. 1 RU. 230 VAC CE transformer

### **LIMITED WARRANTY**

The term “Buyer” as used in this document refers to and includes both (but only) (a) any person or entity who acquires such an item for the purpose of resale to others (i.e., a dealer or distributor of an item), and (b) the first person or entity who acquires such an item for such person’s or entity’s own use.

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#### **Broadcast Tools, Inc.**

131 State Street  
Sedro-Woolley, WA 98284 • USA

360.854.9559 **voice** • 866.783.1742 **fax**  
support@broadcasttools.com **e-mail**  
www.broadcasttools.com **website**