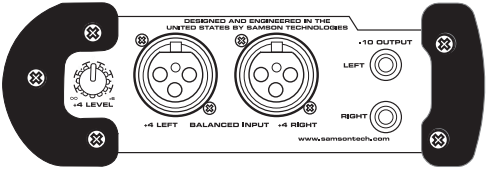
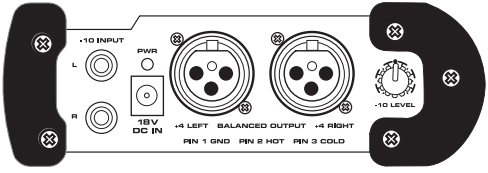
S·convert





Line Level Converter Box

Owners Manual

SAMSON
AUDIO

S Class Signal Processors

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S convert Introduction and Features

Introduction

Thank you for purchasing the S convert stereo line level converter from Samson Audio! S convert provides a convenient solution for matching levels and interfacing audio devices, either on stage or in the studio. The S convert is a specially designed miniature level matching device that allows you to convert stereo –10dBV (RCA) signals like those from consumer CD players and cassette recorders, to +4 dBu (XLR) signals like those from professional mixers, outboard effects processors and DAT machines to name some. The S convert works in both directions and features male and female XLR connectors for the balanced +4dBu inputs and outputs, along with RCA connectors for the unbalanced –10dBV inputs and outputs. The addition of +4 and –10 LEVEL controls allows you to use S convert to calibrate your signals to an exact level. And just because this unit is miniature, don't be surprised with its great sound and reliability thanks to high quality components and solid build construction.

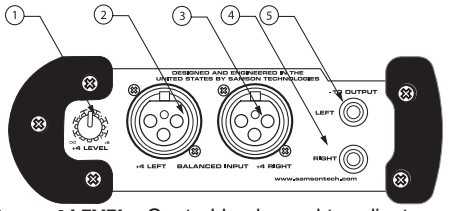
In this manual, you'll find a more detailed description of the features of the S convert, as well as a guided tour through the front and rear panels, step-by-step instructions for using the S convert, and full specifications. You'll also find a warranty card enclosed—please don't forget to fill it out and mail it so that you can receive online technical support and so we can send you updated information about other Samson products in the future.

S convert Features

- Compact device for converting +4 dBu audio signal level to –10dBV
- RCA –10dBV level Inputs with Level control
- XLR +4dBu level Balance Outputs
- XLR +4dBu level Balanced Inputs with Level control
- RCA –10dBV level Unbalanced Outputs
- Rugged aluminum extrusion chassis
- Large rubber bumper feet
- 18 Volt AC adapter included
- Three year extended warranty

S convert Front and Rear Panel Layout

Front Panel Layout



1 **+4 LEVEL** - Control knob used to adjust the signal level connected to the +4dBu, XLR inputs.

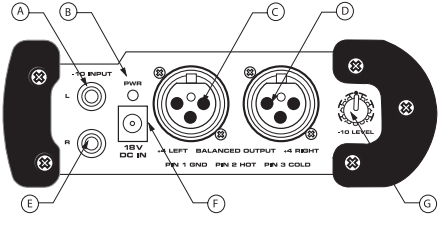
2 **+4 LEFT INPUT**- XLR balanced input for connecting left, +4dBu input signals.

3 **+4 RIGHT INPUT**- XLR balanced input for connecting right, +4 dBu input signals.

4 **-10 OUTPUT RIGHT**- RCA connector outputs the right side -10 dBV signal.

5 **-10 OUTPUT LEFT**- RCA connector outputs the left side -10 dBV signal.

Rear Panel Layout



A **-10 LEFT INPUT**- RCA input for connecting left, -10dBV input signals.

B **POWER LED -** Green LED will illuminate when power is on indicating the S convert is ready for operation.

C **+4 LEFT OUTPUT**- XLR balanced connector outputs the left, +4dBu signal.

D **+4 RIGHT OUTPUT**- XLR balanced connector outputs the right, +4dBu signal.

E **-10 RIGHT INPUT**- RCA input for connecting right, -10dBV input signals.

F **DC POWER INPUT**- Connect the supplied power adapter here.

G **-10 LEVEL** - Control knob used to adjust the signal level connected to the -10dBV, RCA inputs.

Operating the S convert

The basic procedure for setting up and using your S convert is simple and takes only a few minutes. Remove all packing materials (save them in case of need for future service) and check to make sure that you remove the supplied AC power adapter.

- Connect the output from the device you want to level match (like a consumer CD player using standard RCA cables) to the S converts –10dBV, Left & Right RCA inputs.
- Using standard XLR to XLR mic cables, connect the S convert's +4dBu Left & Right OUTPUTS to the professional DAT recorder balanced inputs.
- Set the -10 dBV LEVEL control to the detent position (12:00 o'clock).
- Set the +4 dBu LEVEL control to the detent position (12:00 o'clock).
- Plug the S converts power adapter into a wall outlet and switch the unit on by pressing the power switch.
- Apply a signal from the output of the CD, and monitor the input of the DAT recorder.
- If necessary, you can use the –10 LEVEL control to fine tune the level sent out of the S convert.

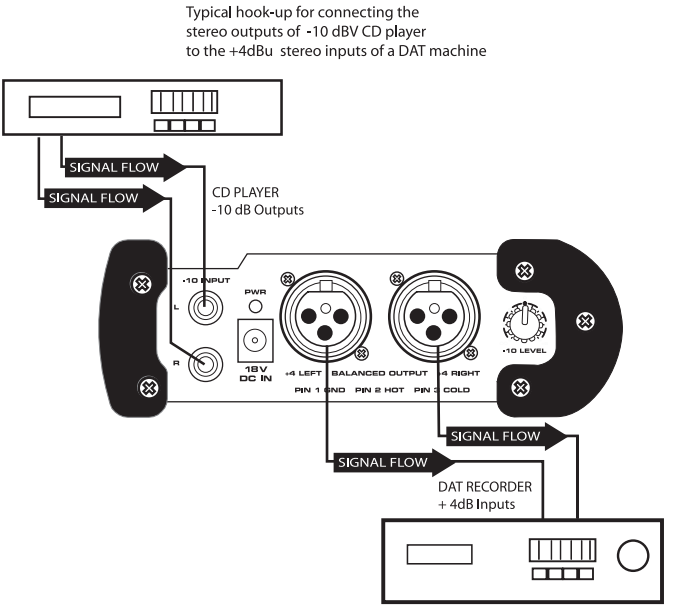
Using the LEVEL controls

Both the +4dBU and –10dBV inputs have a LEVEL control that you can use to slightly adjust either of the inputs. The fact is, not all gear is calibrated to the same input and output levels. There are plenty of great sounding devices whose input and output levels are all over the board. S convert's LEVEL controls can be tremendously useful in precisely matching the signal of different gear, which will maximize signal to noise ratio and improve the overall sound of your recordings or live performance. The LEVEL controls have center detents so when placed in the detent (12:00 o'clock) position the unit is at unity gain and the LEVEL control has no effect on the signal. Moving the LEVEL control to the left will decrease the signal, and moving the LEVEL control to the right will increase the signal.

Operating the S convert

Typical Set-up

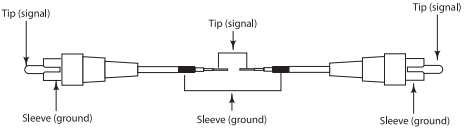
The diagram below shows a typical set-up for a project recording studio using the S convert to match the levels of a consumer CD player to the correct operating level of a professional DAT recorder.



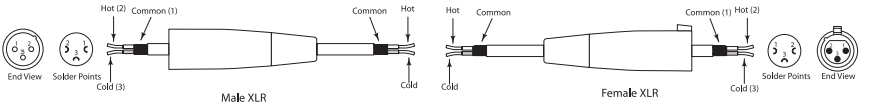
Wiring Guide

There are several ways to interface the S convert, depending on your exact set-up. Follow the cable diagrams below for connecting your gear.

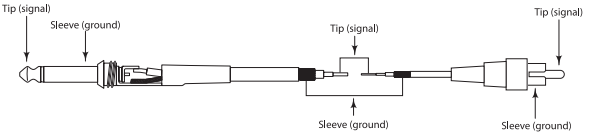
RCA to RCA - Unbalanced



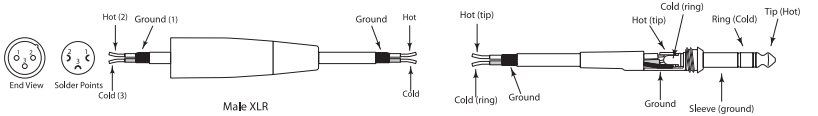
XLR to XLR - Balanced



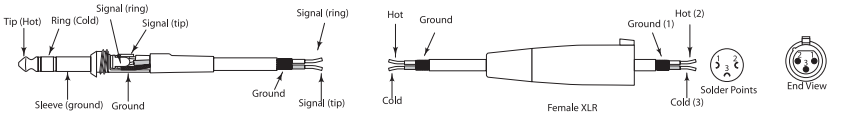
1/4" Phone to RCA - Unbalanced



Male XLR to 1/4" Phone TRS - Balanced



1/4" TRS Phone to Female XLR - Balanced



S convert Specifications

Frequency Response	10 Hz to 100kHz
Noise Level	-110 dBu
Maximum Ouput Level	Bal: +18 dBu Unbal: +16 dBV
Max Input Level	Bal: +22 dBu Unbal: 20 dBV
Input Impedance	RCA: 100k Ohm XLR: 10k Ohm
Output Impedance	RCA: 100 Ohm XLR: 100 Ohm balanced
Maximum Gain	+4 dBu In: -6 dB -10 dBV In; +19 dB
THD	.003% Max
Noise Floor	<-90 dBu
Power	18 VDC adapter
Dimensions	5.65" L x 4.13" W x 2" H (144mm L x 105mm W x 51mm H)
Weight	16.5 oz., 419 gm.

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