

SAMSON MLI1 Mono Isolation Box

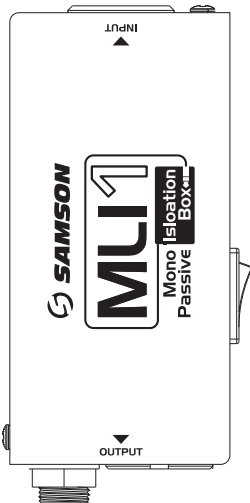
Introduction

The Samson MLI1 is a line-level passive isolation box designed to remove hum and buzz caused by ground loops, or convert unbalanced to balanced signals. The premium circuitry with a flat frequency response from 10 Hz – 35 kHz (± 0.2 dB) and durable, roadworthy construction providing high-quality signal connection solutions for live, broadcast and studio applications.

The MLI1 transformer delivers an extended, flat frequency response and ultra-low distortion. The Ground Lift switch isolates the ground from the Input and Output connections which eliminates hum caused by ground loops.

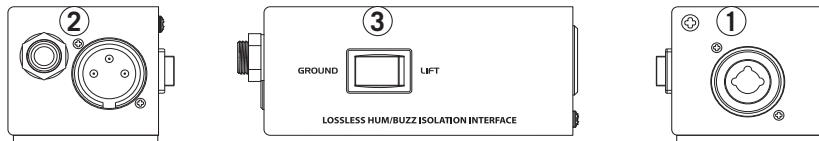
If you have any questions or comments regarding the MLI1 Passive Isolation Box or any other products from Samson, do not hesitate to contact us at support@samsontech.com.

With proper care and maintenance, your MLI1 Passive Isolation Box will operate trouble-free for many years. Should your MLI1 Passive Isolation Box ever require servicing, a Return Authorization (RA) number must be obtained before shipping your unit to Samson. Without this number, the unit will not be accepted. Please visit www.samsontech.com/ra for an RA number prior to shipping your unit. Please retain the original packing materials and, if possible, return the unit in its original carton. If your MLI1 Passive Isolation Box was purchased outside of the United States, contact your local distributor.



Quick Start Guide

Callouts



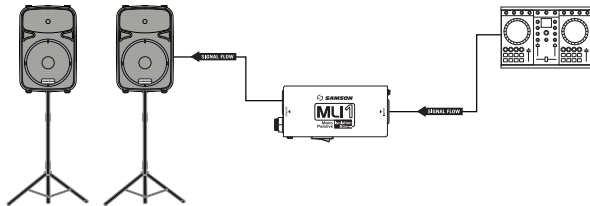
1. **INPUT Jack** – XLR - 1/4" combo input jack for connecting line level signals. The MLI1 can accept balanced and unbalanced connections.
2. **OUTPUT Jacks** – Balanced XLR and 1/4" outputs for connecting to a PA system, mixer or recording interface. The outputs are wired in parallel so you should use only one OUT jack at a time. The MLI1 outputs can be balanced or unbalanced connections.
3. **GROUND LIFT** – When the switch is in the LIFT position, the input ground (shield) is disconnected between the INPUT and OUTPUT jacks. When the switch is in the GROUND position, the ground is connected through the INPUT and OUTPUT jacks.

The Ground Lift Switch

If you have two pieces of equipment in a sound system connected to ground through different AC mains, it can cause a ground loop, which is an annoying 50 Hz or 60 Hz (depending on your location) hum noise. When the Ground Lift switch on the MLI1 is set to the LIFT position, it breaks the ground connection between the input and output audio jacks, thereby isolating the output from the input and removing the hum from an audio signal path. Since both pieces of equipment are still grounded to the AC mains, they are still safe to use.

Setup

The MLI1 can be quite useful on stage or in the studio as an interface for connecting unbalanced audio sources to balanced sources or balanced sources to unbalanced sources. The MLI1 can also be used to remove hum or buzz caused by ground loops between two line-level devices.



- Turn the volume controls of the audio system all the way down.
- Connect the audio source to XLR - 1/4" combo INPUT jack.
- Connect the OUTPUT to the input of an audio device using the 1/4" or XLR connections.
- Raise the level of the audio system to the appropriate level.
- If you hear a hum or buzz set the GROUND LIFT switch to the LIFT position.

Note: Inputs and outputs can be balanced or unbalanced. The MLI-1 can be used to convert unbalanced to balanced signals in either direction.

Specifications

Frequency response	10 Hz – 35 kHz (± 0.2 dB typical) up to 75 kHz (-1 dB)
Dynamic range	>140 dB
Maximum input	+15 dBu @ 41 Hz for <1% THD+N
Gain	+0.2 dB
Rejection 50/60 Hz	126 dB typical
Equivalent input noise	-115 dBu
Intermodulation distortion	0.003%
Total harmonic distortion	0.0006%
Input impedance	7.7 k Ω
Output impedance	600 Ω nominal
Ground Lift	Disconnects ground from input to output connectors. Case is always grounded to outputs.
Connectors	Input: XLR - 1/4" combo, Output: XLR + 1/4" TRS
Chassis Construction	Powder coated, 14 gauge steel
Dimensions (L x W x D)	4.33" x 2.13" x 1.8" 110mm x 54mm x 46mm
Weight	0.7 lb / 0.32 kg

Note: All specifications are with a 50 Ω balanced source @ 1kHz, -10 dBu and 10k load, except as noted.

At Samson, we are continually improving our products, therefore specifications and images are subject to change without notice.



If you want to dispose this product, do not mix it with general household waste. There is a separate collection system for used electronic products in accordance with legislation that requires proper treatment, recovery and recycling.

Private household in the 28 member states of the EU, in Switzerland and Norway may return their used electronic products free of charge to designated collection facilities or to a retailer (if you purchase a similar new one).

For Countries not mentioned above, please contact your local authorities for a correct method of disposal.

By doing so you will ensure that your disposed product undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health.



Having Trouble with your MLI1 Passive Isolation Box?

We can help!

CONTACT OUR SUPPORT TEAM:
support@samsontech.com

Our experts can help you resolve any issues you may be having.

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Samson Technologies Corp.
278-B Duffy Ave
Hicksville, NY 11801
Phone: 1-800-3-SAMSON (1-800-372-6766)
www.samsontech.com