

MD1

Mono Direct
Passive Box



Quick Start Guide

SAMSON®



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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.

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Introduction

A direct insertion box, or DI box, converts unbalanced high impedance signals to balanced low impedance signals. This provides the facility to run long cables without deterioration of the signal, as well as connecting audio signals to a mixer's microphone input.

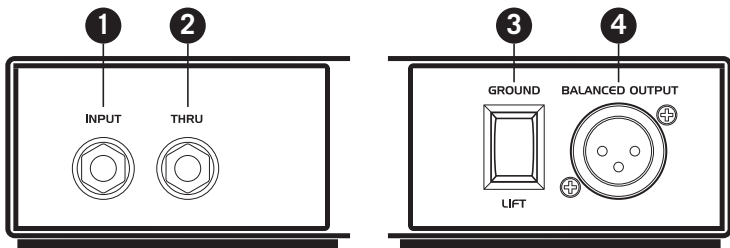
Samson's S-Max Direct Boxes combines premium sound circuitry with durable, roadworthy construction to provide high-quality signal connection solutions for live and studio applications. The Samson MD1 Professional Mono Passive Direct Box offers a variety of DI solutions for live sound and recording applications. You can connect all kinds of audio signals like those from keyboards, drum machines, mixers, guitars, and outboard signal processors.

Samson's STL transformer delivers an extended, flat frequency response, ultra-low distortion, and eliminates hum and RF interference. The MD1 balanced output provide a clean signal, that is less susceptible to noise when compared to an unbalanced cable, which allows for running longer lengths of cables. Another benefit from a balanced connection is CMR (Common Mode Rejection), which provides cancellation of interference (hums and buzzes), while leaving the original signal pure.

The THRU jack enables you to tap off the signal from the input and pass the signal to an amplifier or monitor without affecting the original sound. This can eliminate the need for miking the guitar amplifier, which in many cases is preferable, especially as more bands are using in-ear monitors.

With proper care and maintenance, your MD1 will operate trouble-free for many years. Should your direct 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 call Samson at 1-800-3SAMSON (1-800-372-6766) for an RA number prior to shipping your unit. If your direct box was purchased outside of the United States, contact your local distributor for warranty details and service information.

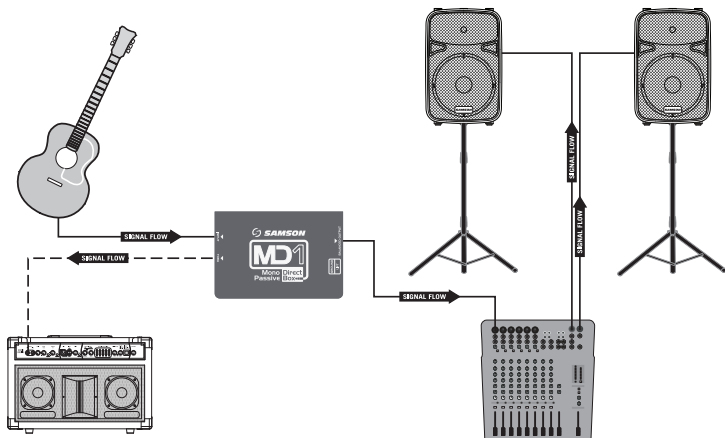
Callouts



1. **INPUT** – 1/4" hi-Z input jack for connecting for instruments or line level signals.
2. **THRU** – 1/4" output for passing the input signal through to a stage amplifier or monitor system.
3. **GROUND LIFT** – When the switch is engaged, the input ground (shield) is disconnected.
4. **BALANCED OUTPUT** – Male XLR low-Z connector.

Setup

The MD1 can be quite useful on stage or in the studio for connecting unbalanced audio sources or instruments with pickups. By utilizing the MD1, the signal can be sent cleanly for long distances while benefiting from the low noise and common mode rejection provided by the balanced low-level output. The diagram following shows a typical hook-up for an acoustic guitar connected to an acoustic guitar amplifier and a PA system.

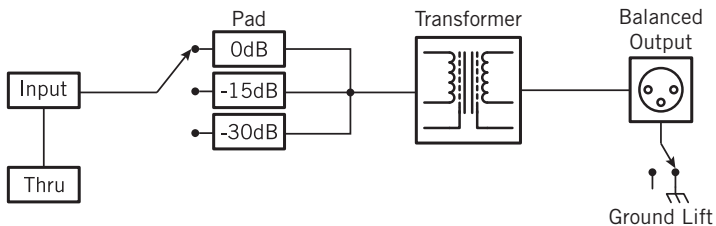


- Set the volume controls of your audio system to the off position.
- Connect your instrument or other audio source to the MD1 INPUT jack.
- Connect the THRU output to a monitor speaker or sub-mixer.
- Connect the BALANCED OUTPUT to the microphone input of a mixer or other audio device.
- Raise the level of the audio system to the appropriate level.
- If you hear a hum or buzz set the GROUND LIFT switch to the LIFT position.

Specifications

Type	Mono Passive Direct Box
Frequency Response	18Hz to 40kHz ± 0.1 dB
Maximum Input	+20dBu 0.35% THD
Dynamic Range	>100dB @ Balanced Output
Noise Floor	-117dB
Total harmonic distortion	<0.03% from 20Hz to 40kHz
Input impedance	400k Ω
Output Impedance	250 Ω $\pm 20\%$
Transformer	Samson STL
Transformer Ratio	15:1
Ground Lift	Disconnects XLR pin-1 (Output)
Connectors	1/4" Phone Jack, unbalanced (In & Thru) XLR, balanced (Output)
Construction	14 gauge steel chassis
Dimensions	5" x " 3.38" x 1.95" 127mm x 86mm x 49.6mm
Weight	1.49lb 680g

Block Diagram



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