

## StageBug™ SB-5 stereo direct box

### USER GUIDE

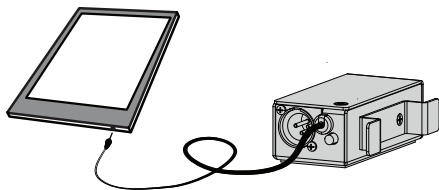
Thank you for purchasing your very own StageBug SB-5 Laptop direct box! The SB-5 is a super compact DI that is able to comfortably fit inside your tool kit for quick and easy deployment in just about any situation. Although the SB-5 Laptop is designed to be plug & play easy to use, please take a minute to read this short manual. It will give you insight on how to best use your Radial direct box and get the most out of it.

#### OVERVIEW

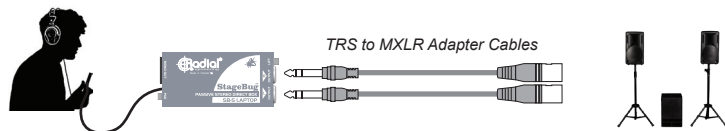
The StageBug SB-5 is a stereo direct box that has been specifically designed to interface your laptop, tablet, smart phone or music player with professional audio systems. It features an integral cable that is terminated with a standard mini TRS connector along with a cable cleat for easy storage. Using the SB-5 reduces noise, enables long cable runs and improves the sound quality by properly matching the impedance and optimizing the signal level of your mobile device to work with a PA system. The cool thing about the SB-5 is that it does not require any power whatsoever to make it work. It is passive. The magic comes from two custom made isolation transformers that do all the work. You simply plug in and hit play!

#### CONNECTING TO THE PA SYSTEM

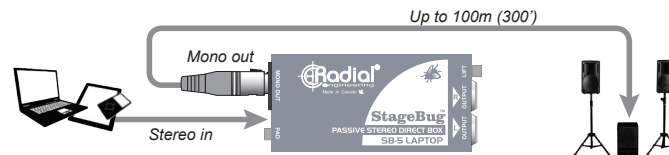
Before making connections, always turn audio levels down or the PA off. This will help eliminate turn-on transients that can damage more sensitive components like tweeters. Unwrap the SB-5's cable from the Sidewinder cable cleat and connect the 3.5mm (1/8") mini TRS connector to the stereo output on your mobile device. For best results ensure the volume level of the device is turned up so that you get maximum signal to noise.



For stereo operation, connect the left and right 1/4" TRS balanced outputs from the SB-5 to two mic inputs on the PA system. In most cases you will find that using a pair of 1/4" TRS to XLR-M adaptor cables to be the best choice. The SB-5's output is mic level and therefore should be connected to a microphone input. Set the two PAN controls on the mixer hard left and hard right for full stereo performance. Adjust the level to suit.



In many instances, a mono or single channel audio works perfectly well. An example is in a venue where the PA system is feeding a wide audience. Stereo signals are often impossible to enjoy unless seated in the center of the room. The SB-5 is equipped with an auto-merge function that sums the left and right inputs to mono and delivers the signal at the XLR. A standard XLR to XLR mic cable is of course used in this case.



#### USING THE GROUND LIFT

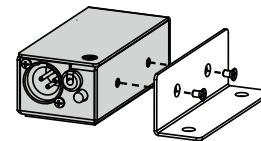
Sometimes when connecting your device to the PA via the SB-5 direct box you can encounter noise like hum and buzz caused by ground loops. Computers are particularly troublesome. If you encounter noise after connecting try using the ground LIFT switch. The SB-5 outputs are transformer isolated and pushing in the LIFT switch disconnects the audio ground between the SB-5 input and the PA system. This breaks the ground loop and eliminates the ground loop noise.

#### USING THE PAD TO PREVENT DISTORTION

High output devices like laptops and MP3 players can sometimes overload certain pieces of equipment and cause distortion. The SB-5 is equipped with a -15dB PAD that can be inserted to reduce the input sensitivity and reduce distortion. If you encounter distortion, try reducing the source output level. If this does not solve the problem, simply depress the pad. It is important to note that the sound quality from a mobile device will often deteriorate as the battery runs low. To get the best audio from your mobile devices ensure the batteries are fully charged or powered with an AC adaptor.

#### DESK MOUNT BRACKET

An optional desk-mount L-bracket is available for permanent installations where the SB-5 may need to be affixed to a desk top, podium, AV cart or inside a 19" rack. Simply remove the SB-5's cable cleat and attach the L-bracket. The symmetrical design can be used to flush-mount with the top surface or back-mounted if need be.



To view the 3-year transferable warranty details and product specifications please visit [www.radialeng.com](http://www.radialeng.com)

