

Why Should I Use The Atlas Sound TSD-ZDC?



Atlas Sound Time Saving Devices are designed to solve common problems that can arise during installation or expansion of commercial audio systems. Each TSD can provide a solution in a variety of scenarios. This document will illustrate a few examples of how best to use the TSD-ZDC.

Installation Scenario 1

What is the best way to integrate a stereo, two channel source with a mono, single channel background music and paging system? Many commercial A/V integrators have faced this dilemma and have chosen one of two options.

-Use the left or the right channel only

-Short the left and right channels together (not recommended for a variety of reasons) Most equipment will not function properly with the two outputs shorted together.

The Atlas TSD-ZDC now allows for a third more reliable and better performing option. The TSD-ZDC allows the integrator to passively "sum" the two channels, without shorting the source outputs together. By feeding the left/right channels into the TSD-ZDC and using the other terminals as the summed output, the source's outputs "see" a resistive load and are electrically isolated by the TSD-ZDC.

Installation Scenario 2

Another situation in which the TSD-ZDC can simplify an installation is in a scenario in which up to three microphones need to be connected in a system with a mixer amplifier that only has one microphone input available. The 3 microphone sources can be connected to the 150Ω individual input terminals (A-C) on the TSD-ZDC and the last set of terminals (D) can be used as an output. This provides the electrical isolation needed so the inputs are not overloaded.

Also remember not to mix and match unbalanced with balanced wiring when using the TSD-ZDC, keep the configuration the same for optimal functionality and performance.

