

Virtual 3D Users Manual

Technical Description

The MSB rev 1 Virtual 3D board uses the Medianix MED 250 18 TruSurround (by SRS) Digital Processor. This Dolby approved 24 Bit processor decodes stereo audio and creates a 360 degree effect. The technology, developed by SRS Labs, utilizes head related transfer functions to create an effective sweet spot including up to 75% of the area between the speakers.

Installation

The Virtual 3D board can be installed in any of the three MSB products with an upgrade header: the Link DAC, the Audio Director and the Professional ADD Converter. All products equipped with this header contain a small plastic blank plug on the back of the unit. This is the location for mounting an optional toggle switch.



Install toggle switch here.

Remove the cover of the product. This is accomplished by removing 3 Philips screws from the bottom front edge and 3 screws from from the rear edge of the top. These screws are the only screws that need to be removed.

Slide the cover off and turn over, leaving the ribbon cable connected.

With the jack panel facing you, install the Virtual 3D board in the 16 pin header. First remove the two jumpers. Be sure to check that the socket has not shifted one pin either sideways or front to back. See the sketch to identify the board orientation.

Pop the plastic cap from the hole in the back panel. Install the toggle switch with the arrow up.

With the toggle switch down, the unit operates as it did before the upgrade was installed. With the toggle up, the Virtual 3D processing is activated. You will notice an 8 dB volume reduction. This is normal and provides the headspace for the calculations without clipping.

The DIP switch on the Virtual 3D board replaces the jumper used on the old header to set the DAC features. (See [Link DAC Users Manual](#) to better understand these options)

Switch	OFF	ON
1	Normal Analog Bypass	Digital Zero Bypass (#2 must be on)
2	Normal Phase	Inverted Phase
3	Virtual 3D ON	Virtual 3DOFF, but 8dB cut