



## Front Panel Features and Controls

### Controls (Theory of Operation):

Stereo (or mono) program material is divided into three frequency bands (lows, mids, highs) at a steep 24dB/octave slope. We chose crossover frequencies of 300Hz and 3kHz based on listening tests, which means that the bass band is 300Hz and below, the treble band is set at 3kHz and above, and the mids are everything in between. Each band can then be boosted (up to +17.5dB) or attenuated (down to -infinity) using the large aluminum knobs. Instead of providing individual outputs like a crossover would, the Isolator accurately recombines (sums) the frequency bands back into a complete stereo (or mono) output signal. Audio taper pots deliver a smooth response, exceptional feel, and electronic reliability. With all knobs centered (unity gain at 12 o'clock) the NLA Isolator is impressively transparent-sounding.

### Engage Switch:

A large illuminated pushbutton switch marked "engage" activates the Isolator processing when depressed, and otherwise lets you silently bypass the Isolator during performance (produces no "clicks" or "pops" within the audio signal path). All signal circuitry and any associated loading of your source are completely disconnected via sealed relays which connect the input and output connectors directly, a feature known as "true bypass". This aluminum "engage" button is recessed to avoid accidental use.

When powered off the Isolator defaults to the bypassed state - whether or not the button is depressed - thus solidifying its place as a permanent install in the DJ booth, and negating the need to patch around it in a studio application.

### Power:

The Isolator uses a protected and compliant internal power supply which can accept international voltage ranges of 100 to 240VAC at 50 or 60Hz via a standard IEC power cable. There is no power on/off switch. Whenever it's plugged into AC line voltage, the Isolator will safely power on. When no power is supplied to the Isolator, it will default to bypass mode and pass signal unaffected.

### Built to Last:

Balanced, gold-plated XLR connectors allow the Isolator to be used after a mixer's master outputs (or anywhere in a recording studio). RCA jacks enable the Isolator to be used in a DJ mixer's unbalanced effects loop. With all controls and connectors sturdily mounted to the metal chassis, this Isolator is ready for the road.

\$1050 each, each unit made to order

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