

# **EBTECH**<sup>®</sup>

**YOUR PARTNER IN CRYSTAL CLEAR SOUND**



## ***Hum Eliminator***<sup>™</sup>

Silence AC Hum, forever!

Do you hear a hum or buzz in your audio signal? Are long unbalanced lines across stage creating noise problems? Get the Hum Eliminator<sup>™</sup> from Ebtech®.

Almost all AC hum (60Hz in the US, 50 Hz in most other countries), is caused by ground loops. These ground loops act like radio antennae picking up hum and noise. The Hum Eliminator<sup>™</sup> completely eliminates this by breaking the ground loop, making it impossible for the signal lines to pick up the AC hum and noise in the first place.

Just plug the Hum Eliminator<sup>™</sup> in the signal lines between the offending pieces of equipment and you're done! Quick and easy.

No buzz, no hum. No signal degradation. No filtering. No noise gates. No dangerous ground lifts.



## ***Line Level Shifter***<sup>®</sup>

Solve your -10dBV to +4dBu problems, now!

What do you do when you need to connect a low volume -10dBV output (like MP3 player, or CD player) into a high volume, +4dBu input (like the FOH PA Mixer or multi-track digital recorder)? What you need is one of our Line Level Shifter<sup>®</sup> from Ebtech®!

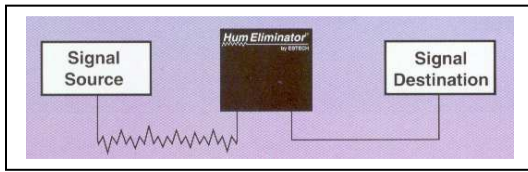
The Line Level Shifter<sup>®</sup> uses the physics of inductance and impedance matching to increase or decrease the signal voltage without the added noise of active electronics. The Line Level Shifter<sup>®</sup> also converts back and forth between balanced and unbalanced signals automatically. This is great because most -10dBV signals are unbalanced while most +4dBu signals are balanced.

The Line Level Shifter<sup>®</sup> also contains Ebtech's Hum Eliminator<sup>™</sup> technology to break ground loops that cause AC hum.

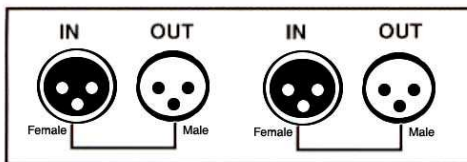
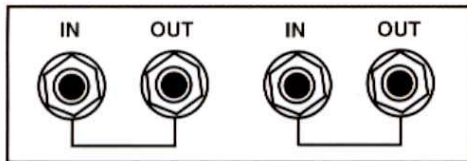
**Both the Hum Eliminator<sup>™</sup> and Line Level Shifter<sup>®</sup> are used around the world for...**

Video/Audio Contracting, Sound Installations, Front of House, Recording Studios, House of Worship, Guitar Amps, Live Sound, DJ / Karaoke, Sound Installations, Powered Monitors, Sports Bars, Keyboards, Meeting Rooms, Home Theater Systems, Computer Video or Audio, Digital Jukeboxes, Home Recording, Broadcasting, Courtrooms, Projection Screens, Bass Amplifiers, Video Game Systems, Theaters, PA Systems, Intercom Systems, Eliminate Video Hum Bars, Analog to Digital Conversion

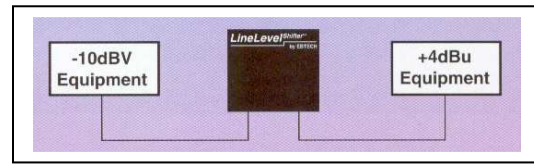
## Hum Eliminator™



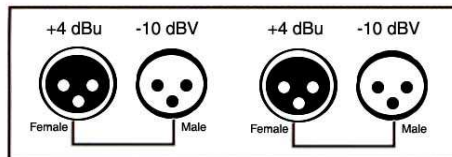
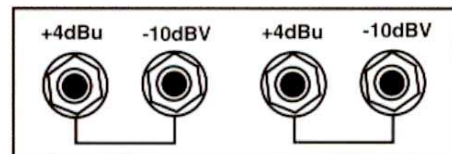
- Eliminates AC hum / 60Hz buzz and noise, quick and easy
- Breaks ground loop safely, while leaving all signal grounds intact
- Automatically translates signal voltages to match differences in ground potentials, avoiding clipping
- Converts automatically back and forth between balanced and unbalanced lines at either end
- 1/4" TRS "smart" jacks (tip, ring, sleeve) inputs and outputs.
- Completely passive design with audiophile quality components assures the best possible noise and distortion performance
- Frequency response 20Hz to 70kHz plus or minus 0.5dB
- Distortion less than 0.005% THD @ 1kHz
- Crosstalk better than -97dB
- Maximum source impedance 1kOhm. Minimum load impedance 10kOhm
- Available in 2 channel box or 8 channel single space rack versions
- 2 Year warranty. Ebtech quality and reliability
- Made in the U.S.A.



## Line Level Shifter®



- Converts back and forth between -10dBV and +4dBu
- Converts automatically back and forth between balanced and unbalanced lines at either end
- 1/4" TRS "smart" jacks (tip, ring, sleeve) inputs and outputs.
- Built-in Hum Eliminator™ technology eliminates AC hum / 60Hz buzz and noise
- Automatically translates signal voltages to match differences in ground potentials, avoiding clipping
- Completely passive design with audiophile quality components assures the best possible noise and distortion performance
- Frequency response 10Hz to 40kHz plus or minus 1dB into 10kOhm load
- Distortion less than 0.002% THD @ 1kHz
- Crosstalk better than -97dB
- Maximum source impedance 1kOhm. Minimum load impedance 10kOhm
- Available in 2 channel box or 8 channel single space rack versions
- 2 Year warranty. Ebtech quality and reliability
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A Division of Sound Enhancement Products, Inc. [www.ebtechaudio.com](http://www.ebtechaudio.com)  
 325 Cary Point Drive Cary IL 60013 Ph (847) 639-4646 Fax (847) 639-4723