

GLX Balanced line isolator

- Eliminates hum and buzz caused by ground loops
- Exceptionally linear response from 20Hz to 18kHz
- Able to handle pro output levels without choking
- 'Plug & play' easy to use with XLR in & out

The GLXTM is a balanced line level isolator designed to quickly eliminate hum and buzz problems in an audio system by simply inserting it into the signal path.

Measuring just over 4" x 1 1/2" (10 x 4cm), the compact design begins with two super-duty glass-filled nylon XLRs at each end with heavy duty nickel-silver contacts that will not tarnish over time. Unlike other isolators that are made of plastic, the GLX is made from solid 16 gauge steel and finished in a tough powder coat. The steel outer shell is not only more durable, it provides excellent shielding against electromagnetic fields radiated by power cables, dimmers, motors and power supplies - delivering consistently quieter results when deployed. This is augmented with a 'set & forget' ground lift switch to eliminate hum and buzz caused by ground loops.

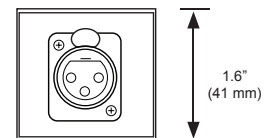
Inside the GLX, a high performance transformer isolates the input from the output and blocks ground loop current. While small transformers rarely perform well below 100Hz, the GLX is exceptionally linear from 20Hz to 18kHz. It is also able to withstand up to +10dB at 20Hz with less than 0.01% distortion. It is a quick and easy problem solver that will eliminate noise without limiting the bandwidth or introducing phase shift, harsh sound or unpleasant artifacts.

These features combine to make the GLX an ideal problem solver for the AV technician and audio engineer working in the fast-paced world of live touring, AV rentals and system integration.

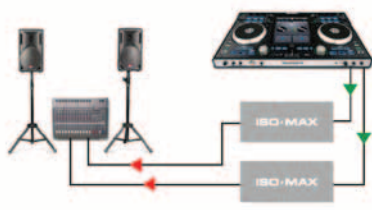
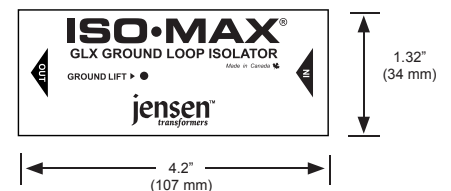


Dimensions

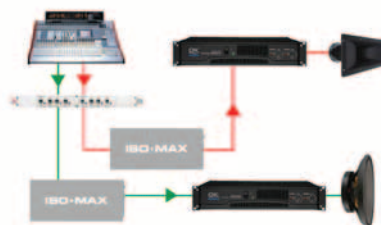
(FRONT)



(TOP)



Isolating the DJ mixer from a console
Plug a couple of GLXs in between the DJ mixer and the main PA to rid the system from hum or buzz caused by ground loops. Equipped with standard XLR.

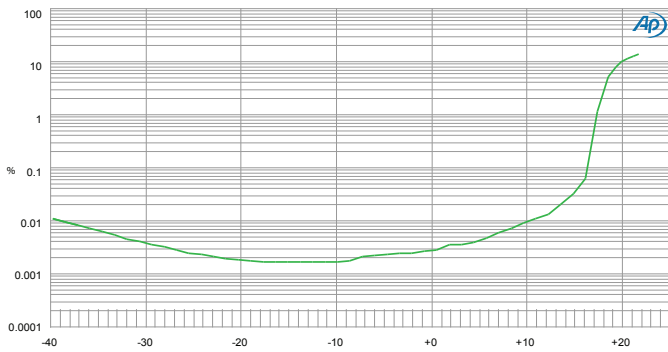


Isolating a crossover from a power amp
Eliminating noise problems can take hours of troubleshooting. The GLX takes the hassle out of the equation with a 'plug and play' solution that works every time.

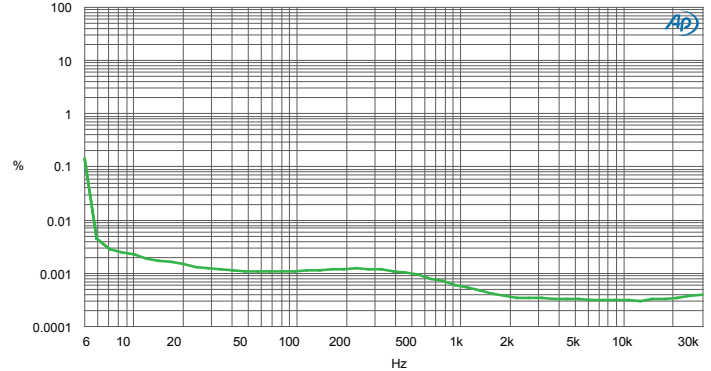


Isolating a console from a remote tower
When distant power systems power equipment it often leads to noise, due to voltage fluctuations and ground contamination. The GLX isolates the system to reduce noise.

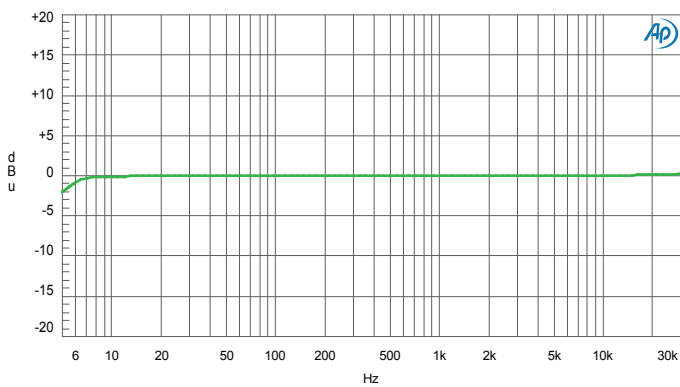
TOTAL HARMONIC DISTORTION + NOISE vs OUTPUT LEVEL



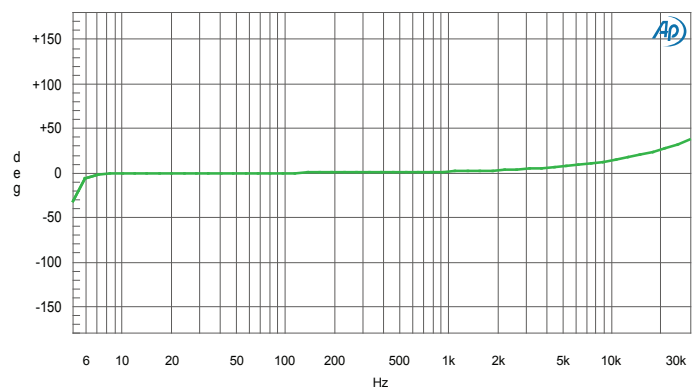
TOTAL HARMONIC DISTORTION + FREQUENCY @ 0 dBu IN



FREQUENCY RESPONSE - 10K Ohm LOAD



PHASE SHIFT vs FREQUENCY - 600 Ohm LOAD

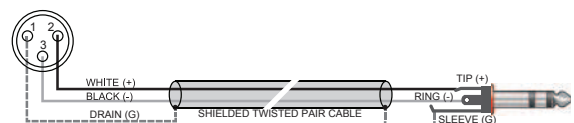


SPECIFICATIONS

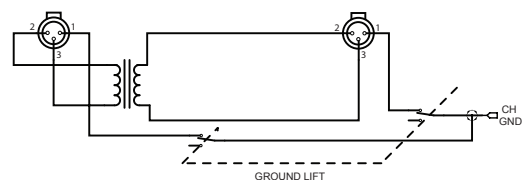
Audio circuit type:	Passive, transformer based
Frequency response:	20 Hz ~ 20 KHz (± 1 dB)
Dynamic range:	>135 dB
Maximum input:	15 dBu
Gain:	0 dB / -5.7 dB 10 K / 600 Ω Load
Clip level:	25 dBu
Equivalent input noise:	110 dBu
Intermodulation distortion:	0.002% @ -10 dBu
Total harmonic distortion:	<0.0006% 1 KHz @ -10 dBu
Input impedance:	8.66 k with 10 k load
Output impedance:	600 Ω nominal
Power:	Passive, no power required

* IMPORTANT NOTE: THIS PRODUCT IS NOT INTENDED FOR USE IN CIRCUMSTANCES WHERE THE DC OR PEAK AC VOLTAGE BETWEEN INPUT AND OUTPUT CONNECTIONS EXCEEDS 34 VOLTS OR WHERE ITS FAILURE COULD CAUSE INJURY OR DEATH.

Connect using standard XLR cables. The GLX is wired following the AES convention with pin-1 ground, pin-2 (+), and pin-3 (-). You can use the GLX with unbalanced lines and an XLR adaptor cable. This will reduce the signal amplitude by roughly 6dB.



BLOCK DIAGRAM



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