

DBT Specifications

| | |
|---------------------|---|
| Frequency Response | +0, -2dB, 20Hz to 20kHz |
| Distortion | *0.005% @ 1kHz |
| Nominal Impedance | 600 |
| Source Impedance | *<400 , recommended |
| Load Impedance | *>600 , recommended |
| Maximum input level | *+19dBu @ 20Hz, +29dBu @ 50Hz |
| Pin Assignment | XLR |
| | Pin 1 = Gnd, Pin 2 = Hot (signal +), Pin 3 = Cold (signal -) |
| | Phono |
| | Tip = Hot (signal +) connected to Pin 2 on INPUT XLR |
| | Sleeve = Cold (signal ground) connected to Pin 3 on INPUT XLR |

*See section on 'Using the DBT'

0dBu = 0.775Vrms



Dual 600 Transformer Balancing Interface

Manufactured by LA Audio (a division of SCV Electronics Ltd),
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Version 2



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Why use a Transformer Balancing box

The main reason for using a Transformer Balancing box is to provide virtual electrical isolation between pieces of equipment where ground loops are a problem. The DBT can also provide un-balanced to balanced conversion to drive long cable lengths without degradation. The DBT has both Phono and XLR connectors to allow interfacing between semi-pro unbalanced and fully balanced equipment.

The DBT Transformer Balancing box provides -

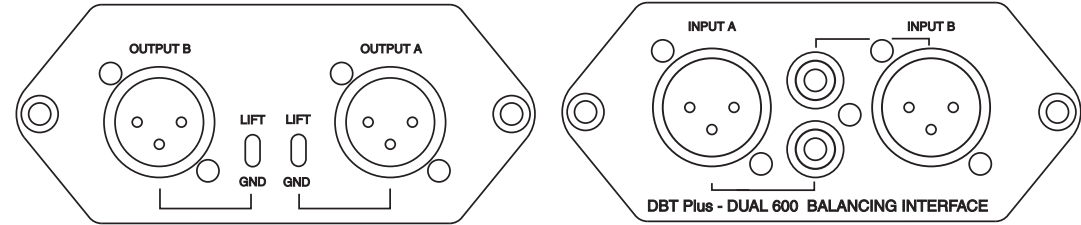
- Balanced to unbalanced conversion
- Electrical isolation between inputs and outputs
- Ground lift switching
- Unbalanced Phono to balanced XLR conversion

Using the Di2

The DBT is a passive device and as such needs to be driven from a low impedance source to ensure the best performance. Therefore actual performance will depend on source and destination impedances. The following table gives maximum signal levels for a given distortion as a function of source impedance. Load impedance is 600 .

| Source impedance | Maximum level for 0.1% distortion @ 50Hz - dBu | Comments |
|------------------|--|---|
| 0 | +30 | |
| 40 | +25 | |
| 200 | +20 | |
| 1k | +10 | Distortion @ 50Hz cannot be lower than 0.5% |
| 10k | N/A | Excessive distortion 5% |

Connections



DBT plus Front and Rear panels

INPUT A and B

Balanced 3 pin female XLR and RCA Phono connectors. The phono is wired Tip to Pin 2 and Sleeve to Pin 3 on the INPUT XLR.

OUTPUT A and B

Balanced 3 pin male XLR.

Please note: Channel A and B are isolated from each other

Controls

GND/LIFT switch

With the Ground Lift switch in the LIFT position the connection between Pin 1 on the INPUT and OUTPUT XLRs is broken.



WARNING

The DBT plus should not be considered as a safety device ie. to provide a safety barrier between hazardous voltages and an operator and/or equipment and should not be used where hazardous voltages are likely to occur.