

LM2U/LM2B

whirlwind



LM2 LEVEL MATCHERS

The Whirlwind LM2 Level Matchers are unique, high quality solutions for converting analog audio levels and impedances between -10 dBV "consumer" or "semi-pro" (also known as IHF standard) unbalanced equipment and +4 dBm balanced professional equipment. The LM2B is the "up converter", amplifying unbalanced IHF signals 14dB and providing balanced output signals. The LM2U functions in reverse, taking balanced +4dBm professional levels, actively attenuating them and delivering unbalanced outputs at IHF levels. Both converters use extremely quiet, high quality active circuits with adjustable gain controls so that signal levels from various devices of gear can be matched to one another.

LM2B



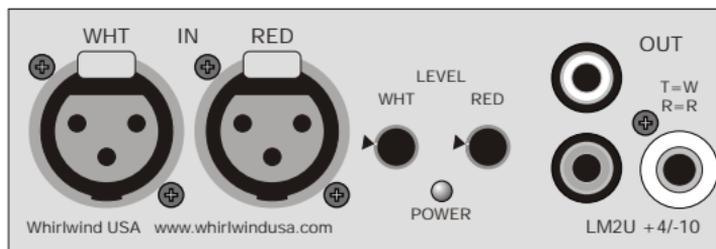
Balanced
Outputs

Gain
Controls

RCA
Inputs

3.5mm
TRS
Input

LM2U



Balanced
Inputs

Gain
Controls

RCA
Outputs

3.5mm
TRS
Output

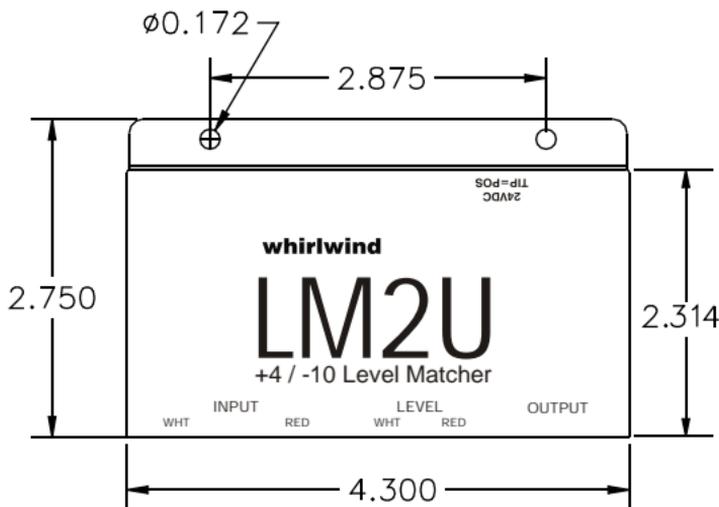
Balanced connections are through gold plated XLRs. Unbalanced connections include gold plated RCAs and a stereo 3.5mm mini connector. The units are powered by an external 24 VDC supply (model #PS24) which connects in the rear of the unit above the mounting flange. The level controls of each unit are marked at the position that represents nominal conversion gain settings.

LM2B SPECS

Frequency response	$\pm .17$ dBV 20-20kHz at unity gain $\pm .19$ dBV 20-20kHz -10 to +4 dBV
Total harmonic distortion +noise	< .0018% 20-20kHz at unity gain < .0023% 20-20kHz -10 to +4 levels
Phase shift	< 16.7 degrees 20-20kHz < 3 degrees 100-4kHz
Dynamic range	117.9 dB at .1% thd, unity gain 96 dBV at -10 to +4 gain
Total gain	40 dBV
Range of level control	-40 to + 40 dBV
Maximum input level	+18 dBV
Input impedance	10K Ohms unbalanced
Maximum output level	+23 dBV
Output impedance	100 Ohms balanced
Noise at 14 dBV of gain	-92.4 dBV 20-20kHz
Noise at unity gain	-100.3 dBV 20-20kHz
Power consumption	41 mA DC max. Typical 92 mA DC max.
Stereo separation	70 dB at 20kHz, 14 dBV of gain 95 dB at 1Hz, 14 dBV of gain 123 dB at 20Hz, 14 dBV of gain

LM2U SPECS

Frequency response	$\pm .1$ dBV 20-20kHz at unity gain $\pm .07$ dBV 20-20kHz +4 to -10 dBV
Total harmonic distortion +noise	< .0015% 20-20kHz at unity gain < .0024% 20-20kHz +4 to -10 levels
Phase shift	< 11.4 degrees 20-20kHz < 2 degrees 100-4kHz
Dynamic range	95.7 dB at .1% thd
Total gain	40 dBV
Range of level pot	-40 to + 40 dBV
Maximum Input level	+17 dBV
Input Impedance	20K Ohms balanced
Maximum output level	+17 dBV
Output Impedance	100 ohms unbalanced
Noise at -14 dBV of gain	-105.9 dBV 20-20kHz
Noise at unity gain	-103.4 dBV 20-20kHz
Power consumption	34 mA DC max.
Stereo Separation	94 dB at 20kHz 110 dB at 1kHz 120 dB at 20Hz



WARRANTY

This product is guaranteed to be free from defects in materials and workmanship to the original purchaser for a period of 2 years from the date of purchase. Should service be required, return the unit postage prepaid along with the original sales receipt to:

whirlwind
 Attention - Repair
 99 Ling Road
 Rochester, New York 14612

The warranty on this product shall not apply to defects or damage resulting from abuse, abnormal use or from repairs or modifications performed by anyone other than whirlwind. If it is determined a manufacturing defect has occurred, whirlwind will repair or replace the unit at our option and pay the postage back to you.