

# Remote Autoformer Volume Control



The EMIA Remote Autoformer Volume Control is a stereo volume control based on multiple tapped auto-transformers. As the name implies, this unit offers remote control. The unit has 63 steps of 1dB each. The complete gain range is from -53 to +7dB, plus mute. The switching is via sealed reed relays that have been selected by ear. The cores of the auto-transformers are made of 80% Nickel, also known by its trade name of Permalloy. Each auto-transformer uses non-magnetic brass channels for that last bit of signal circuit preservation.

The unit has three selectable sets of inputs as well as two sets of outputs that are in parallel.

The input can be switched from the lower of two side-mounted front panel momentary rocker switches or from the remote control. Similarly, the volume can be adjusted from the upper side switch or from the remote.



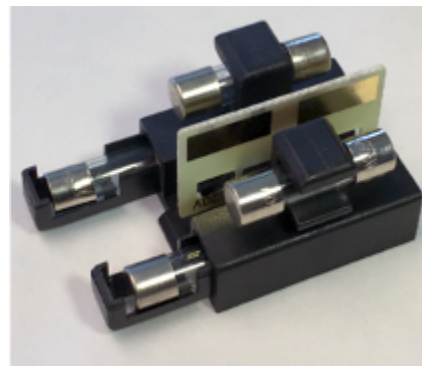
The remote offers several features that are not available on the manual autoformer. The most obvious is the front panel display of the volume level. This display can be turned off via the remote (button 1), or even set to automatically go dark after every change of the volume after a waiting period of a few seconds (button 2). The volume itself is adjusted via buttons 3 and 7. Mute is activated via button 5. Source selection is handled via the six buttons at the bottom of the remote handset (8). Normally only three inputs are utilized, but we can accommodate up to the full six on custom projects. Balance is adjusted via buttons 4 and 6. A balance control that can be adjusted remotely is helpful when dealing with vacuum tube based hifi gear.

On the display, an upper LED lights when the balance has been tilted to one side or the other. At first, the LED will be green as the balance adjustment is gentle (4dB or less). As the adjustment becomes more radical, the LED will change to a orange color and then finally to red.



Power:

The fuse holder is in the middle of the IEC inlet. It is accessed with a small flat blade screwdriver. The unit is compatible with both 120V/60Hz mains as well as 240V/50Hz with the flip of the yellow fiberglass card inside the IEC power inlet as shown in the photo below. The fuse type is 5x20mm 2at. Spares are held inside the slide out compartment.



Enjoy!... and please give lots of feedback... it is how we progress!

With sincere gratitude,

Jeffrey and Dave

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## **Specifications**

Single-ended (balanced on request)  
-53 to +7 dB in 1 dB steps, plus mute  
150 Henries of inductance  
Permalloy (80% Nickel) autoformer cores  
Brass channel frames  
Discrete sealed reed relay switching  
Three inputs  
Two parallel outputs  
Available in copper or silver

## **Chassis**

5.5" x 5.5" x 9" [14 cm x 14 cm x 23 cm]  
Shipping weight - 16 lbs. [7 kg]