



## PLC•1 MKII Passive Line Controller

### **Introduction:**

Thank you for purchasing the PLC•1 MKII Passive Line Controller.

Please read the entire contents of this guide before making any connections.

### **System Requirements:**

To achieve optimum performance, your source components should have enough output to drive your amplifier(s) directly. This is usually listed in their specifications in volts RMS.

The amplifier should have an input impedance of 20k ohms or higher, and an input sensitivity lower than the source's rated output. The input sensitivity is the signal level required to drive the amplifier to rated power. For example, a CD player with 2 volts RMS output and an amplifier with 1 volt sensitivity would work fine. In a system using a 1 volt output source and an amplifier with 2 volts sensitivity, you would not have enough signal to drive the amplifier to full power.

Being a passive device, shielded output cables of less than 2 meters are recommended. If longer lengths are required, low capacitance types are desired.

### **Overview:**

#### **Power Up**

At power up, the PLC will default to mute (no input selected), and automatically reduce the volume to zero. This is a safety precaution to prevent damage in the event of a power outage. After power up, it takes approximately 12 seconds to lower the volume and be ready to accept user commands. Functions can be selected by front panel controls or RC•1a remote control.

#### **Inputs**

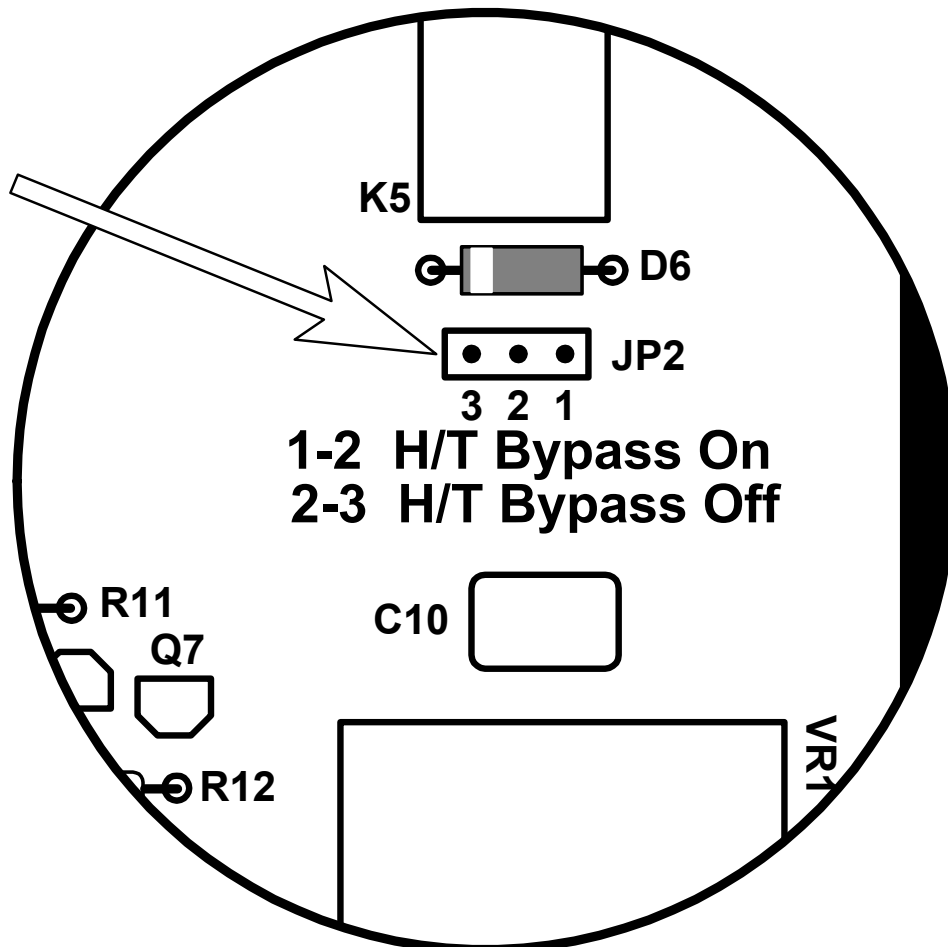
The audio inputs (labeled 1 through 4) can be used for any standard audio source such as CD players, phono preamps, tuners, TV audio etc. When an input is selected, the corresponding number of blue LED's will illuminate for easy identification from across the room.

## Home Theater Bypass

The number 4 input can also be configured as a Home Theater Bypass, enabling connection from the front channel outputs of a Home Theater Processor or preamplifier. This allows the use of your Stereo system for the front channels of your surround/HT system. When connected in this manner, the PLC's volume control is bypassed, and the HT system is controlled by the processors controls.

To enable Home Theater Bypass, use the supplied hex wrench to remove the top cover. Locate the blue selection jumper at the right rear (viewed from front) between the output jacks and volume control. Place the blue jumper across pins 1&2 to enable HT Bypass, or 2&3 for standard input (default), and re-install the top cover.

*(see diagram below)*



## Tape Input/Output

The Tape Input/Output jacks can be used to record and play back tape recordings. When any input is selected (1-4), the selected signal is sent to the Tape Output jacks. The output of the tape deck can be connected to Tape Input. For playback, simply select Tape. When this input is selected, an orange LED will illuminate. If you do not have a tape deck, the tape input may be used as a 5th standard input.

## Audio Outputs

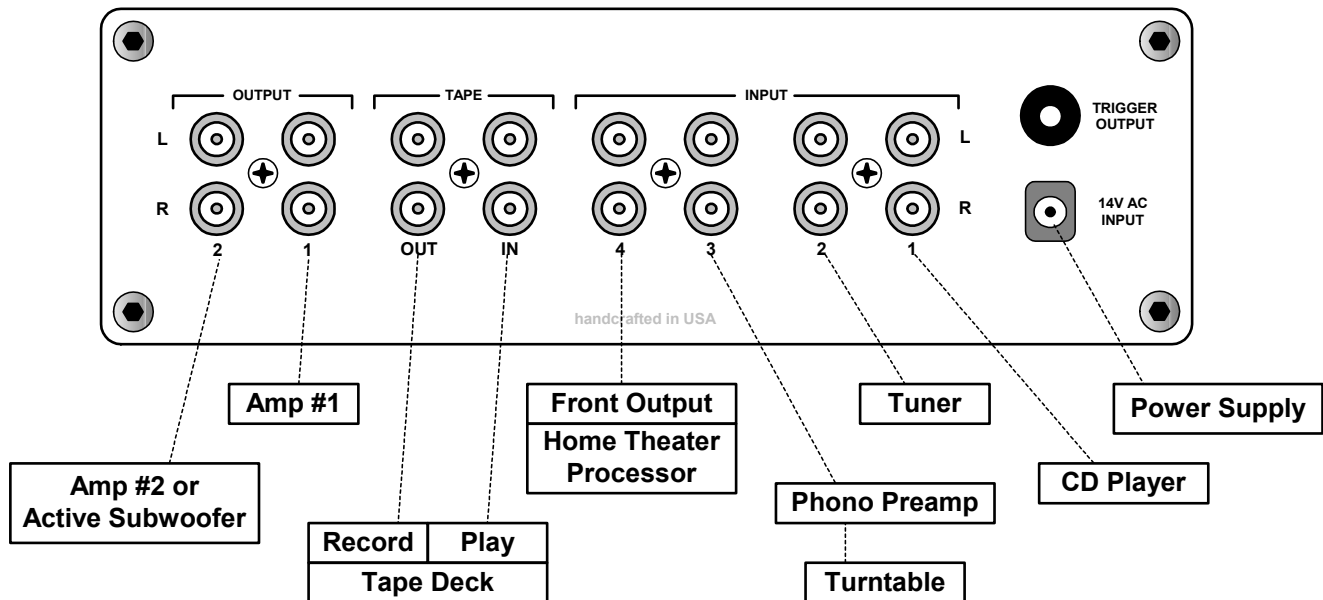
Two pair of audio output jacks are provided for multiple amplifiers, bi-amping, or use with a powered subwoofer.

## 12 Volt DC Trigger Output

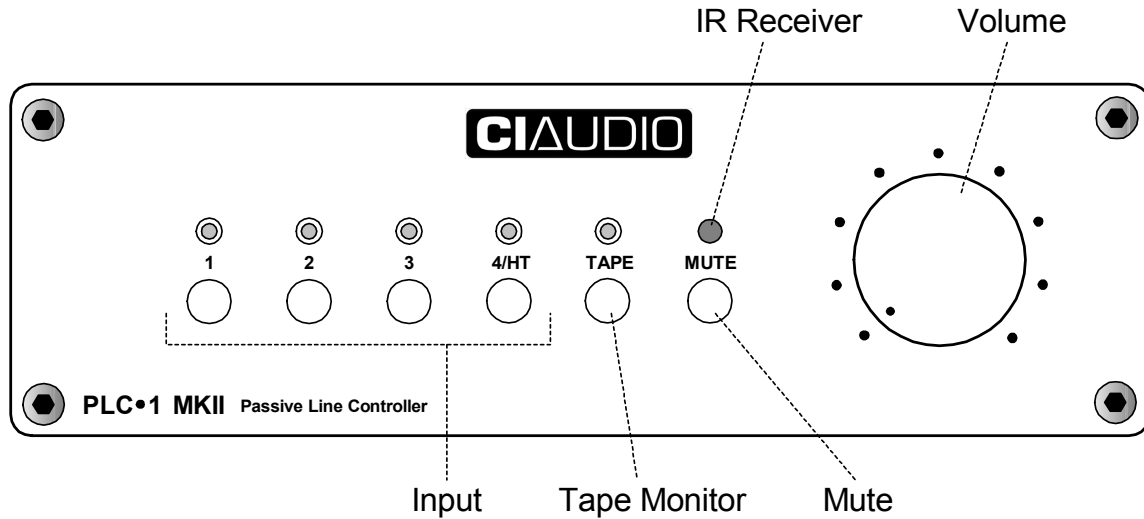
The 12v trigger output can be used to turn on/off compatible devices (amplifiers etc.). Use the supplied cable for this connection. The trigger is controlled by the green button on the remote control.

## Typical Configuration

(example)



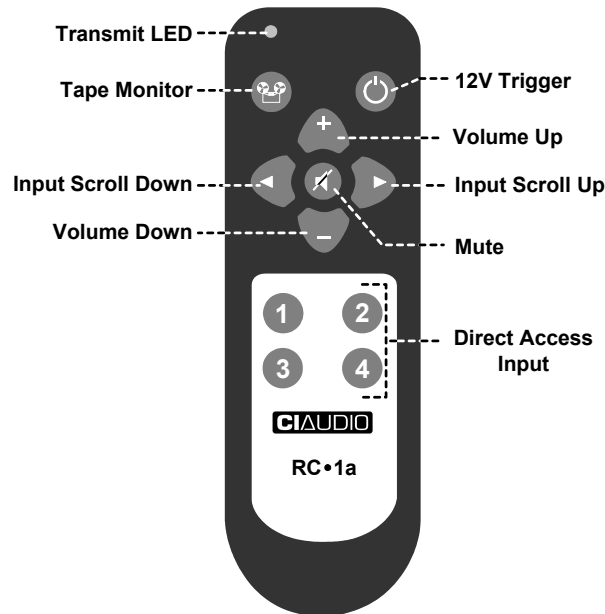
## Front Panel Controls



## RC•1 Remote Control

The RC•1a operates on two AAA batteries (supplied) and can control volume up/down, mute, input scroll up/down, direct access input (1-4), tape monitor, and 12v trigger.

*(See diagram below)*



## Warranty:

Your CIAudio product is covered by a 1 year Parts & Labor Warranty. For warranty service or technical support, contact us at...

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