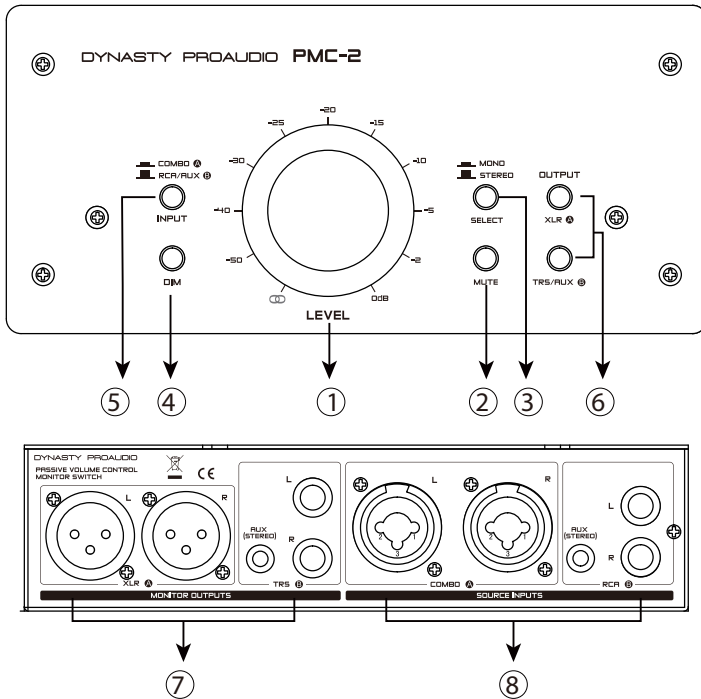


DYNASTY PROAUDIO

PMC-2 Passive Studio Monitor Volume Controller Owners Manual



The Dynasty ProAudio PMC-2 is a 2 x 2 premium passive stereo monitor and volume controller for professional computer-based studio applications and home use. It is designed for a precise volume control of analog audio signals and is inserted between analog signal sources and active speakers or amplifiers, also can be connected between a PC sound card or audio interface and monitor speakers, simply delivers an attenuated signal for pure transparent, without compromising your audio which is one of the man benefits of passive volume attenuation. It is ideal for quick and easy level control by using your fingertips with a large rotary control knob. The PMC-2 is completely passive and does not require power supply, you can keep your software masters at unity and attenuate the audio to your active monitor speakers precisely with the PMC-2 while maintaining maximum audio resolution. The unit features balanced combo XLR / Phone Jack, RCA Audio Line and Mini Jack TRS 3.5mm inputs, DIM & Mute/Mono switches, XLR Balanced/Phone Jack/Mini Jack output, and a large rotary volume control.



1. Volume Attenuation Control

The PMC-2 rotary control allows precise level adjustments from 0 to -50dB. Produce the required amount of volume by rotating the volume control in a clockwise direction to increase the volume (reduce the amount of attenuation) or counter-clockwise to reduce the volume and increase the amount of attenuation.

2. Mute Operation

The on/off Mute Switch on the top panel allows engagement of the PMC-2 built in mute function, the PMC-2 audio signal output will be disabled when the Mute Switch is engaged to provides the same result as turning the volume knob all the way down.

3. Stereo / Mono Switch

Can be switched to stereo or mono signal, the mono button sums your signal to mono (great for checking mixes for phase issues)

4. DIM Switch

Pressing this button turns down the signal going to the monitor outputs by 20 dB, this allows you to essentially "turn down" the speakers to converse without affecting the speaker level.

5. Source Input Select Switch

Engage / disengage the INPUT switch to select the source you would like to monitoring, leave this switch disengaged as DOWN position to select input source A (Combo Jack Connector). Press this switch as UP position to select input source B (RCA/AUX Connectors)

6. Monitor Output Select Switch

The OUTPUT section provides the possibility to select which outputs are currently active via the A (XLR Connector) and B (TRS/AUX as Phone Jack & Mini Jack TRS Connectors) buttons

7. Source Input (A & B)

The main stereo inputs are located on the rear panel and feature XLR balanced / Phone Jack unbalanced combo, Mini Jack TRS, RCA input connectors for Left and Right input signal, these are ideal for connecting your main audio source

COMBO (A): Simply connect your cables directly to the unit with XLR balanced or Phone Jack 1/4" cables

RCA (B): Simply connect your cables directly to the unit with stereo RCA or Mini Jack TRS cables.

8. Monitor Output (A & B)

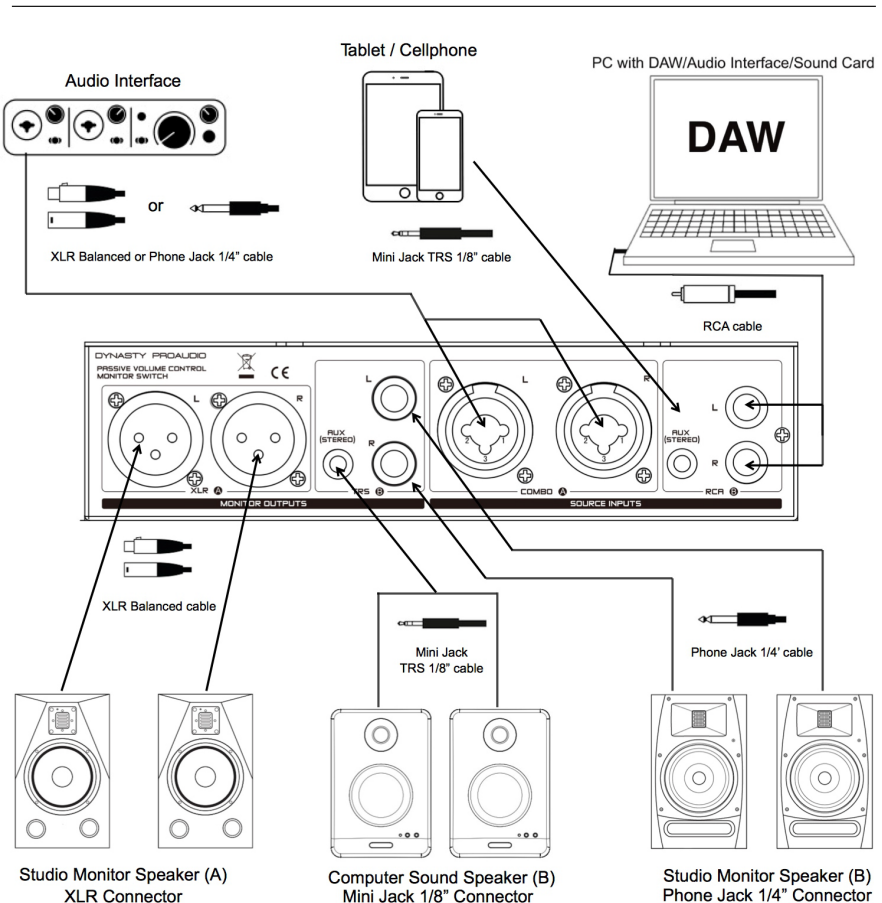
The PMC-2 stereo outputs are also located on the rear panel and feature a pair (Left and Right) of XLR balanced and Phone Jack 1/4" unbalanced analog output connectors, those monitor outputs are fed by the "control room bus."

This is the signal path fed from the source input currently selected with the source select button, the level of each stereo output may be trimmed using the top panel volume rotary control to balance the level between monitor speakers.

XLR (A): Use the XLR balanced cable to connect the inputs of powered studio monitors, or to a power amplifier driving passive speakers.

TRS (B): Use the Phone Jack 1/4" or the Mini Jack TRS cable to connect PMC-2 to your studio monitors, or to a power amplifier driving passive speakers.

The PMC-2 can be used with either balanced or unbalanced signals. Because the main stereo signal path through the PMC-2 is passive, like a 'straight-wire', you should not mix balanced and unbalanced connections. Doing so will ultimately 'un-balance' the signal through the PMC-2. If this is done, you may encounter crosstalk or bleed. **For proper performance, always maintain either a balanced or unbalanced signal flow through the PMC-2 by using appropriate cables for your equipment.** Most mixers, workstations and near-eld monitors can work either balanced or unbalanced so this should not pose a problem when used with the proper interface cables. The diagram below shows various types of balanced and unbalanced audio cables.



PMC-2 Setup

The PMC-2 Studio Monitor Volume Controller is typically connected to the output of your mixing console, digital audio interface or laptop computer represented as a reel-to-reel machine in the diagram. The outputs of the PMC-2 connect two pairs of stereo monitors (or to a power amplifier driving passive speakers).

The PMC-2 top panel is configured with a series of recessed trim controls. These set & forget trim controls are used to tune the output level going to each component so that when you switch from one set of monitors to the other, they play back at relatively similar levels. Although most active monitors are equipped with level controls, getting to them while listening is difficult. For using the PMC-2, now you no need to reach around the back of studio monitor to make the adjustments, just stay on the engineer's seat to let you compare how your mix will translate on different monitors which in turn will help deliver more convincing mixes to the audience. Before making any connections always ensure levels are turned down or equipment is turned off. This will help avoid turn-on transients that could harm sensitive components like tweeters. It is also a good practice to test signal ow at a low volume before turning things up. There is no power switch on the PMC-2, as soon as you plug in the power supply it will turn on.

SPECIFICATIONS		
Source Audio Input	Input Connector 1	2 x Combination XLR / Phone Jack (6.3mm) balanced / unbalanced
	Input Connector 2	1 x Stereo RCA Line Input
	Input Connector 3	1 x Stereo TRS Mini Jack (3.5mm) AUX Input
	Maximum Input Level	+ 26dB
	Input Impedance	50K ohms
Monitors Outputs	Output Connector 1	2 x XLR balanced
	Output Connector 2	2 x Phone Jack (6.3mm) unbalanced
	Output Connector 3	1 x Stereo TRS Mini Jack (3.5mm) AUX Output
Performance	Frequency Response	0/0.15dB (10Hz - 40KHz)
	Signal-To-Noise	better than -130dB
	Channel Cross Talk	> -99dB <
	Distortion	0.0005%
Physical	Dimensions (W x D x H)	7.6" x 3.6" x 2.2"
	Weight	1.62 lbs
TROUBLE SHOOTING		
No Sound	Is the signal source turned up? Make sure the signal level from whatever device(s) immediately precedes the PMC-2 Passive is high enough to produce sound.	
	Is the PMC-2 level control turned up?	
	Are the source and monitor select switches in their correct positions?	
	Is the mute switch engaged?	
Bad Sound	Are the input and output connectors plugged completely into the jacks? Make sure they are plugged all the way in.	
	Is it loud and distorted? Reduce the signal level at the source(s).	
Noise/Hum/Buzz	Make sure the signal cable is not routed near AC cables, power transformers, or other EMI sources (including wall warts and line lumps!). These sources usually produce hum.	
	Check the signal cable between the source(s) and the PMC-2. Make sure all connections are secure. These problems usually produce crackling noises, hum, or buzz.	
	If possible, listen to the signal source with headphones plugged in. If it sounds noisy there, it's not the PMC-2	
Excessive hiss is an indication of an incorrect gain setting somewhere before the PMC-2		

TECHNICAL SUPPORT

If you have technical questions about your product or are experiencing difficulties we are happy to help. You can contact Dynasty ProAudio support by sending an email to: support@dynastyproaudio.com