
TZ VIBE

**TRANSIMPEDANCE
PHONO PREAMP**

SUTHERLAND



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— RON SUTHERLAND

Sutherland has the advantage of many model designs over the years. Every so often there is an opportunity to do some 'design splicing'. Not one of those earth shattering, blank sheet of paper approaches. It is a very practical, efficient, cost effective way to push performance/price. And, of course, it is done with our meticulous attention to detail in design and build quality.

This new design 'lifts' some circuitry from the **KC VIBE** and 'lifts' some circuitry from the front of the **little LOCO Mk2**. The **KC VIBE** provides the foundation and the second gain stage. The transimpedance input stage comes from the **little LOCO Mk2**. Each of those products underwent years of development. Each has been in production for several years, earning a solid reputation. All of that valuable knowledge and experience is combined into the **TZ VIBE**. An offering of the Sutherland transimpedance experience at a more accessible price.



— System Considerations —

The **TZ VIBE** presents a virtual short as the cartridge load. Instead of voltage being the input parameter, it is the current generated by the cartridge that conveys musical content. The endless worry about finding the ‘best’ load value is obviated.

REQUIREMENT

The cartridge **MUST** be a **LOW OUTPUT** moving coil type. Internal resistance should be less than 20 Ohms.

Not compatible with high output moving coil or moving iron or moving magnet or step-up transformers.

Thanks to the new **little LOCO Mk2** circuit, the shell of the RCA input jack is now at ground. There are no special TT cable requirements.



— LINKING INTO YOUR SYSTEM —



Place the **TZ VIBE** near the turntable. The turntable signal is applied to the two centrally located RCA jacks on the back panel. Often there is a ground wire coming from the turntable. Connect it to the grounding screw in the center of the back panel. The output of the **TZ VIBE** goes to a line-level input on your preamp or integrated amplifier.

The DC power connection is made in the opening on the bottom of the **TZ VIBE** case. Orient the cable routing so the ferrite filtering element is within the bottom opening. Otherwise the case will not sit solidly on the four rubber feet.

Load Settings

There are no loading adjustments in the **TZ VIBE**. Your cartridge will see a load of zero Ohms. The input signal will be the current your cartridge produces into that virtual short. No need to worry about or fuss around with loading choices.

Gain Settings

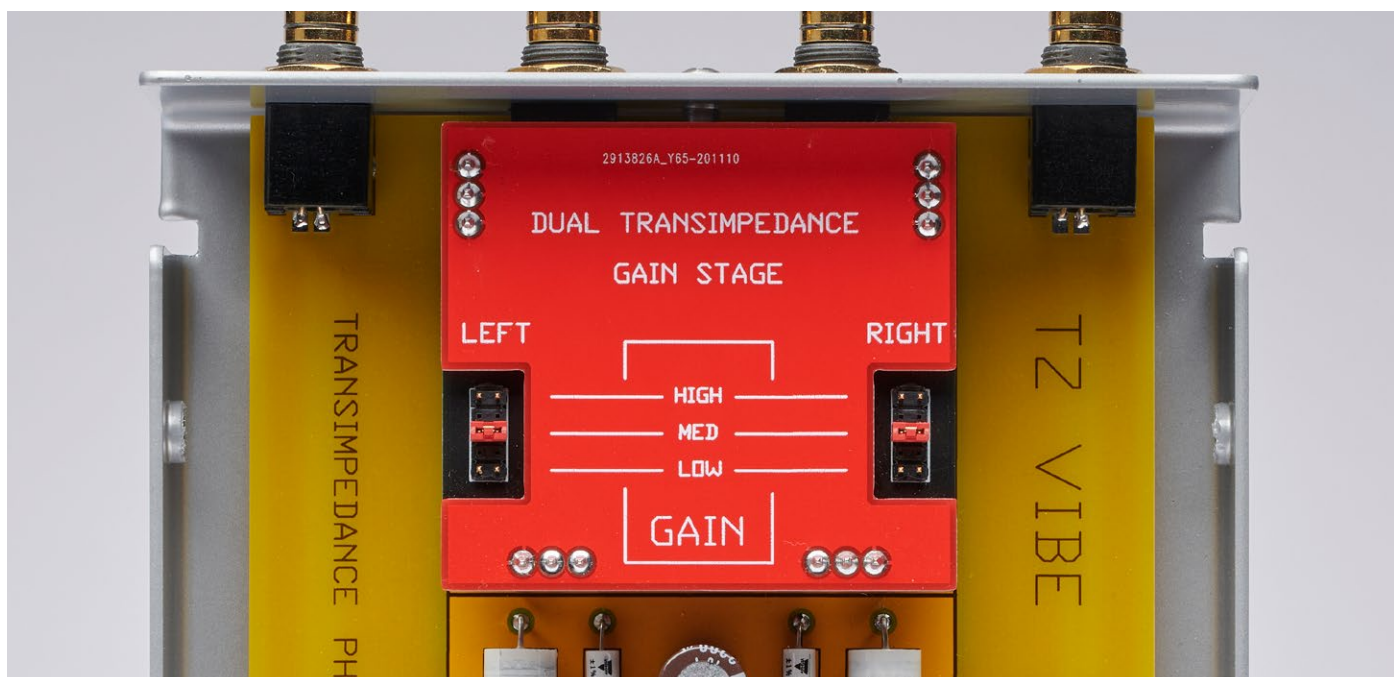
Your **TZ VIBE** is factory-set to medium gain. That should work very well in most situations. The usual concerns about cartridge output voltage do not apply here. Cartridges of varied output voltage specs tend to supply about the same level of drive current into a short. i.e. higher output voltages usually have an associated higher internal resistance. Lower output voltages usually have an associated lower internal resistance.

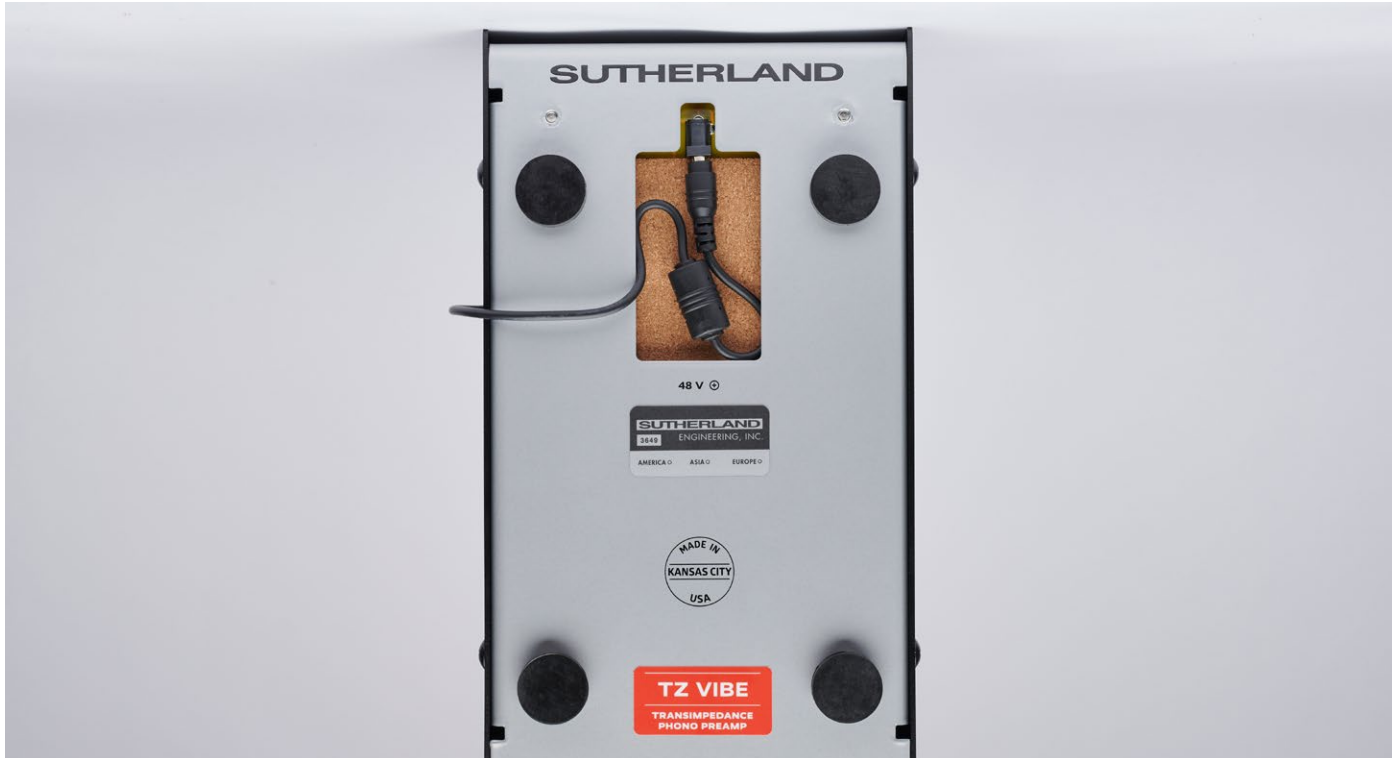
If your particular situation would benefit from a gain adjustment, you can change it. Inside, on the red circuit board, you will see movable shunts for gain setting. From the factory, they are set to MED GAIN. You can boost the output voltage by 6dB when the shunts are moved to HIGH GAIN. You can reduce the output voltage by 6dB when the shunts are moved to LOW GAIN.

WARNING

The **TZ VIBE** uses an external power supply with an unusually high output voltage. Use it ONLY with the **TZ VIBE**. If used on other equipment, there is a real possibility of causing severe damage.

Use the **TZ VIBE** only with the included power supply. It provides the specific requirements that must be met.





Size

6.5" wide
12" deep
2.5" high

Shipping Box

14.5" wide
12.5" deep
6.5" high

Contact Info

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Weight

Unit Weight: 6 lbs

Shipping Weight: 9.5 lbs

Operating Voltage Requirements

86 to 260 volts AC, 5 Watts

Universal, no adjustment required

Warranty

5 years parts and labor. Transferable. Only valid for units that have not been modified or abused.