



"We have seen the future....and we can fix it"



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Congratulations on your purchase of a SoundSmith true “Dual Coil” VERTICAL Monaural High Output SoundSmith cartridge.

The SoundSmith **dual coil mono design** is truly a unique creation in the cartridge industry, allowing the listener to enjoy mono recordings with an ambience not available with any other mono cartridge design, as well as providing numerous wiring methods for maximum flexibility of use.

The dual coil feature allows you to use your SoundSmith mono cartridge in several ways. The most commonly used hookup is to treat it as a normal stereo cartridge, with red-green (right) and white-blue (left), with the red and white as plus (+) connections - the same as is found in the industry as a standard. Wiring the cartridge in this manner will allow you to listen to the two independent monaural channels, one from each speaker.

Due to the design of this unique dual coil cartridge, the “left-right” channel balance will NOT change with VTF. The channel balance is fixed, and MAY be off by as much as 2 dB from one mono channel to another. Keep that in mind if you wire it as a “stereo” cartridge – you may have to use the balance control on your preamp to get the image to “center”.

### **Other wiring options:**

You may also use only one cartridge channel for mono; please use the LEFT channel as the cartridge body/shield/ground is carried on the BLUE connection.

You may also wire the cartridge (or tonearm channels in parallel with Y cables), which will cancel some of the difference products from a mono recording

produced by the dual coil design. This can also be accomplished by using a mono switch on your preamp, if you wire the cartridge as a stereo cartridge.

If you directly wire the cartridge channels in parallel by any means, the loading in that case can be reduced to 22K these high output designs.

Vertical tracking force will vary as a function of stylus type, arm performance, groove velocity and other parameters. It is always a trade-off between avoiding mistracking by tracking too lightly, and groove wear from too much downward force. Your experimentation and experience will be required in each case. Wax can be played as low as 1.4 grams, while other materials and cylinders as high as 2.7 grams. Generally, 2.0 to 2.2 grams is a good range for many recordings. A flat preamp is suggested (NO RIAA) with a gain of 40dB.

You may also, for higher output (5 mV), wire the left/right channels in series, using a jumper wire from the White to the Green, then using the RED as the hot lead and the BLUE as ground. **This will double the output voltage**, but will then require a RAISING of the minimum load to a 100K load to achieve 20KHz. bandwidth. Standard 47K loading will provide a signal to 10KHz. before rolling off at 6dB/octave.

Please let us know how you are enjoying the Soundsmith's monaural VERTICAL cartridge design you have chosen; you may call us at the above number, or Email peter directly at [Peter@sound-smth.com](mailto:Peter@sound-smth.com); Thanks for listening!

Peter Ledermann/President