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**VOG
ANALOG BASS
RESONANCE TOOL**

**LITTLE LABS
6711 WHITLEY TERRACE
LOS ANGELES CA 90068**

**E-MAIL:
LITTLELABS@LITTLELABS.COM**

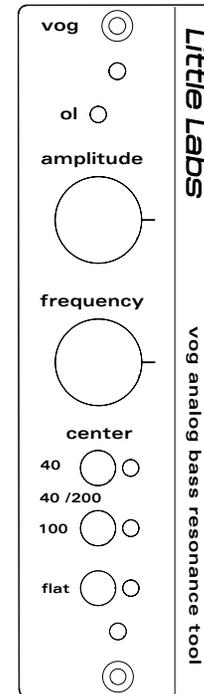
**WEB:
WWW.LITTLELABS.COM**

**SALES, SERVICE
TECHNICAL SUPPORT:
323-851-6860**

**PRELIMINARY
OPERATORS MANUAL
(TYPOS AND ALL)**

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THE VOG IN USE

This is a preliminary manual and I apologize it's lacking some things that the next revision will cover. I will post the next revision, on the, soon to be (it's taken forever), new web site. I couldn't put a FAQ section in because I haven't had too many questions asked yet. I will notate in the next manual exactly what frequencies fall on the numbers of the frequency dial, and perhaps I will have some diagrams.

Let me ramble here. The VOG allows you to sweep a sharp peak from 20 to 300 Hz, with everything below the peak swept away at 24dB per octave. This allows you to accentuate for example on a kick drum, the fundamental, the sub harmonic, or the upper harmonics. It actually sounds like you are loosening or tightening the drum head.

The max peak amplitude at the center frequency is as high as 18dB. The potentiometer we have to use for the amplitude in the VOG has to have a pretty extreme log taper. A relay clicks in at the 10 position to give you that last bit of oomph. In use, I usually have that amplitude knob all the way up to listen for the frequency I want to focus on, and sometimes I keep it that way, but usually I taper it off a bit for more subtle accents.

The amplitude knob all the way down is the same as pushing the flat button in.

Due to the low frequency nature of this beast, some scratchy noises will be heard when adjusting both amplitude and frequency, this is normal.

One of the beauties of the VOG is the extreme cut off below the peak frequency, even in its lowest frequency position, which is about 20 Hz, the frequencies below it are wiped out. This should reduce the possibility of launching woofers out of there baskets, but don't get carried away, you still could overload some systems.

Tech stuff:

The VOG is unity gain.

Input impedance: 10k ohms / Output impedance: 100 ohms

Max level: out in balanced mono 28dB

Max level: out in unbalanced stereo 22dB

Congratulations on your purchase of the VOG analog bass resonance tool.

The VOG is the result of my fascination with design errors in circuits and transformers that malfunctioned with mostly useless, but sometimes incredible results. As an example, in winding step up transformers, occasionally we would find a notch in the frequency response of one that was so incredibly deep and narrow. To design such a notch filter would be very complex. Who would of thought you could do it with basically a design error in a winding. The VOG was discovered in my laboratory in a similar way, but has, as you will hear, very useful and very musical capabilities.

My initial application for the VOG was for voice over work. It allowed you to capture the lowest tone of your voice and accentuate that, while at the same time completely rolling off the mush below it. Similar to a proximity effect but with a higher intelligibility. That's where the name Voice of God or VOG came from. Only later however, when I heard it on a kick drum and a bass, did I realize I'm really onto something here!

The VOG gives you unprecedented bass resonance control that is quick and easy to apply. It can be way over the top or subtle in it's effect. It does not generate a lower octave, like some devices do, it only can work on what's already there, but it doesn't need much. The minimum processing is what makes it sound so good.

So have fun, the VOG is easy to use. Please don't be afraid to push all the buttons and have fun creating the biggest beautiful bottom you have ever heard.

Cheers!

Jonathan Little

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VOG

IMPORTANT HOOK UP INFO

Slide it into your lunch box, obviously carefully, until you hear a nice little thunk.

The VOG is a balanced device from input to output. Unlike some devices that unbalances the signal when it enters, then balances the signal when it leaves, the VOG never unbalances the signal. What happens to the positive happens to the negative, it's a differential circuit from input to output. This has major sonic advantages, but you need to keep this in mind when unbalanced gear is used with the VOG. The input isn't critical, you can drive it with a balanced or unbalanced signal. The output though, be careful, many people have there unbalanced inputs wired with pin 3 and pin 1 tied together (with pin 2 hot). If you do that, you will be driving pin 3 output into ground. It won't blow anything up, but it can cause general weirdness. You need to not attach pin 3 but of course keep pin 1 attached. Balanced though, is the way to go. But...

Here is a secret, you can use the VOG in STEREO, mind you, you don't have separate left and right controls, but I use it on my DJ set up sometimes. Kick it in on some tunes to get the dance floor pumping, oh yeah, boogie down baby. Simply wire pin 1 ground, pin 2 left and pin 3 right on the XLRs.

One last thing that is more for the techies out there, the VOG is dc coupled, so any dc applied to the input, you will see on the output. Also mute your channel when powering up the VOG to avoid a pop.

VOG

FREQUENCY SELECT BUTTONS

The frequency select buttons on the VOG selects where your peak resonance will be when the frequency knob is at the centerposition, the number 5. So here is how they work:

With the flat button in, the signal has a flat frequency response (this is not a hard bypass).

With all buttons out the center frequency is 40hz.

With just the 100 button in the center frequency is 100hz.

With the 100 and 40 button in, the center frequency is 200hz.

With just the 40 button in the center frequency is 40 hz. (just the same as having all buttons out)

My buddy Joe Barresi wanted me to just have a 40 and 100 position. I added the 200 position, but if you don't want it, just keep that top button always out. It's like the public option if you don't want it, don't use it. Ha Ha! Oh and note, if it's not already obvious by using your ~EARS~, the higher you go with the numbers on the frequency dial, the lower the peak frequency.