

# How To Choose Filters

This is a fairly simple topic. You begin by establishing how many filters you need at this time and in the foreseeable future. It is wise to plan ahead as far as you can make out the future status of your audio.

To appreciate this, you need to remember a few facts.

One is that our design concept is such that each consumer unit should have its own filter. This has nothing to do with power requirements and/or consumption, but rather with the fact that each and every unit that draws power from the grid also returns a portion of it back into the grid. Since our filters are fully symmetrical, just as they won't allow pollution to enter your units, so it will prevent them from sending pollution back into the grid. In other words, it will not only filter from the grid, but will also very effectively prevent any crosstalk from one unit to any other. Not many power line filters on the market are capable of this; in fact, we don't know of any that is.

The other is that if you buy the smallest, two filter model, and then use a commercially available power strip, which is of course quite possible, you will be missing out on this rather important effect, because whatever is connected to the power strip WILL interact with everything else on the power strip. You will thus have only one, admittedly the larger one, effect of the two desirable ones. Not what it should be.

We would remind you that we grant a 5% discount to all second time buyers, and a 10% discount to third and over time buyers. This practice was introduced when we discovered that over one third of our trade was from repeat customers, a fact we are indeed most proud of. Cautious people purchased our smallest model, and then upon discovering its virtues, needed to expand, or to introduce filters to other room and/or systems, typically using the first in an audio system, but then wishing to expand to their video systems as well, where the results are not only audible, but are easily seen by the naked eye.

As an example, a gentleman from Holland purchased our smallest model. Some two weeks after receiving it, he was back with an order for four more smallest units. We asked him why wasn't he going for larger models, which are more cost effective, and he explained that the first unit

was firmly lodged in his home, cleaning the incoming power for his Audio Note system, and that the new units were for his business, an A/V studio, where each editing and digital imaging room would receive its own filter.

Experience tells us our filters are most effective in:

- audio systems;
- video systems;
- A/V facilities, editing, dubbing, etc;
- Radio and TV stations;
- Communications;
- Research facilities with ultra sensitive equipment;
- Professional CAD/CAM facilities, etc.

While we do not manufacture specifically for medical facilities of any kind, we know of several dentist, ophtamological and similar practices which use them. Even two hospitals use them, one for their brand new scanner, the other for operating room electronics. Several research labs happily use them in ultra sensitive fundamental research (e.g. Dept. of Pharmacology, Toxicology and Clinical Pharmacology, School of Medicine, University of Belgrade).

### **Example.**

A system consisting of an integrated amplifier, a CD player and say a tuner would require three filters. Obviously, a model with four units is the choice here. One filter will be left as spare, but just that it doesn't waste your time and money, connect a light source to it, or some such.

### **Example.**

A system consisting of two mono power amps, a preamp, a CD player, a turntable will require a six section filter. The two amps should be connected to high power outputs, the rest to other outputs. If the turntable setup consists of the actual turntable and a separate Phono EQ/amp, use one output for the turntable and another for the eq/amp unit, i.e. separate them electrically. Thus, you will be using all six outputs.

Your next step is to decide which of the two lines we offer you want. They are essentially the same, insofar that both have just three models each: one with two, one with four and one with six filters and outputs. But they differ elsewhere.

DeZorel is our tried and proven line, with owners in 28 countries around the world. Its current filters are a further evolution step ahead of what they were until a year ago, i.e. until 2005. The newer version of the filter uses better quality materials, which were unavailable at the time the filter was redesigned last, which was in 2001. Consequently, it performs even better than it used to, but is now offered at a significantly reduced price per filter ratio than ever before. Today, DeZorel is our standard offer at what we feel is a most reasonable price. They are available in natural aluminum grey finish only.

For those wanting to have our next generation filter, several steps removed from our standard offer, our new registered brand name, DMD Research, will be the obvious choice. We regard this as our more up-market brand name, removed towards the High End.

While retaining the general outward appearance, inside, it's a different story. The filter modules for this line are an advanced version of our general topology, the fruit of 3 years' worth of dedicated R&D work, advanced computer simulation, investments in new lab instruments, etc. In brief, these modules take all the virtues of our older generation filters and take them up to the next level, a full class above our current DeZorel versions, or two classes up from our 2001-2005 production crop.

**In a nutshell - better filtering with even less interference than our standard line, itself already quite outside the usual. Possibly the best overall filter sections available in the world today.**

More materials, different high quality dual side printed circuit boards, with fully metalized holes, necessitate higher prices. Yet even so, they are not far higher, on average, about 30% higher than DeZorel prices. Not insignificant, but not unreasonable either. The results certainly justify the higher prices.

If you decide to go the DMD Research way, all you need do is ask for a full quote on the price of the model you want.

As a special service, we can adjust one filter section to be as our special video or A/V filter, which will be appearing as a separate model soon. Since this involves the same size and number of parts, but of different values, we do not charge for this service, considering it a courtesy service. You just need to let us know. Special outputs will be color coded.

DMD Research products are also distinguished by their deep black, piano lacquer finish, not available for DeZorel products.

# DeZorel® DMD Research®

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