

## **ERROR 149**

It's my guess that these Pakon scanners came with a computer supplied by Kodak/Pakon for use in production. They were probably minimally spec'd computers, but tuned for scanning use. The PSI software never was meant to be installed, configured and used by the public. It certainly isn't user friendly either.

PSI seems to run fairly well on a dedicated computer. It's when we try to run it virtually that problems crop up. The state of virtualization today is really driven by enterprise needs. Web hosting, and application testing are the big ones. While all the virtualization software offers hardware pass-through, it's not 100% and still in the development stage. The virtualization forums and help desks are filled with folks trying to get this printer or that scanner to work correctly in this or that environment.

When it comes to scanning, this is one of the most data intensive things we can do. In a virtual machine environment (Parallels, VMware, Virtual Box) one of the most important things for the hosted operating system is memory. I'm not surprised there are issues here. Well fortunately the writers of PSI had the same issues we did and actually provided a solution for us within the software. PSI by default is literally starved of memory. I'm not sure why other than it allowed them to supply cheap computers with these scanners. Memory was expensive in the early XP days. Today there is no reason not to have 8+ gb of memory in your computer, especially when we're doing digital photo work.

Alright enough with the background stuff. I have a theory on what is going on under the surface that is producing the 149 error, but I can't prove it without access to deeper logging available with the source code. It really doesn't matter I guess, we just need to throw more memory at it. Before we do that though we need to make sure your virtual machine is configured correctly.

Windows XP can only use 3 GB of memory. Period. If you're trying to throw more than that at it, it's a waste. Not only that, but PSI won't even use more memory because it's limited by settings as to how much it can and will use! In our testing I've found that 1 GB is plenty for a clean Windows XP install. No need to go overboard. I don't expect you will be editing and working with photos in XP anyhow, keep your XP vm clean.

## **THE FIX**

I've put together a file that will automatically tune XP, and the Pakon software to be more scanning friendly. Download, transfer or get this to your virtual machine. Run the .reg file, reboot and you're good. The memory that PSI is allowed to use is critical. It allows the 'virtual' hand-off to the physical machine to happen without overflowing the bucket of data resulting in 149 errors. We're essentially making our bucket bigger so that there is time for the files to be written correctly.

There are also extra settings that I've tweaked within XP itself to be more efficient. Feel free to run this when not in a VM environment as well, it can only help.

Don't worry you don't have to understand all this. Just run the .reg file and scan after you've installed the Pakon software (if this is a new installation).

## **THE FILE**

<http://sdrv.ms/1bnBo7W>