# Using Voodoo to test Controllers/Cameras

Voodoo is a PCi analogue of the CCDTool program. Unfortunately our original LOD files are not Voodoo compatible. All the timing lod files in /home/dspdev/ccd/tim have therefore been modified to make them Voodoo compatible. This does not affect their operation with uDAS but means that they can no longer be used with CCDTool (should an SBus DAS machine ever be resurrected). The original utility lod files are also not Voodoo compatible. When using voodoo you must therefore use the following utility lod file :

> /home/dspdev/ccd/util/voodoo/stdutil.HOST.R6.2004-12-03.lod

Voodoo can be started up in the dspdev account with 'voodoo &'. DS9 should also be started up since voodoo can send its images direct to ds9 without having to use iraf (similar to the WHT TV/AG systems). Once the Voodoo window appears , the first thing to do is select 'Setup' from the top menu bar. The following window will then appear:
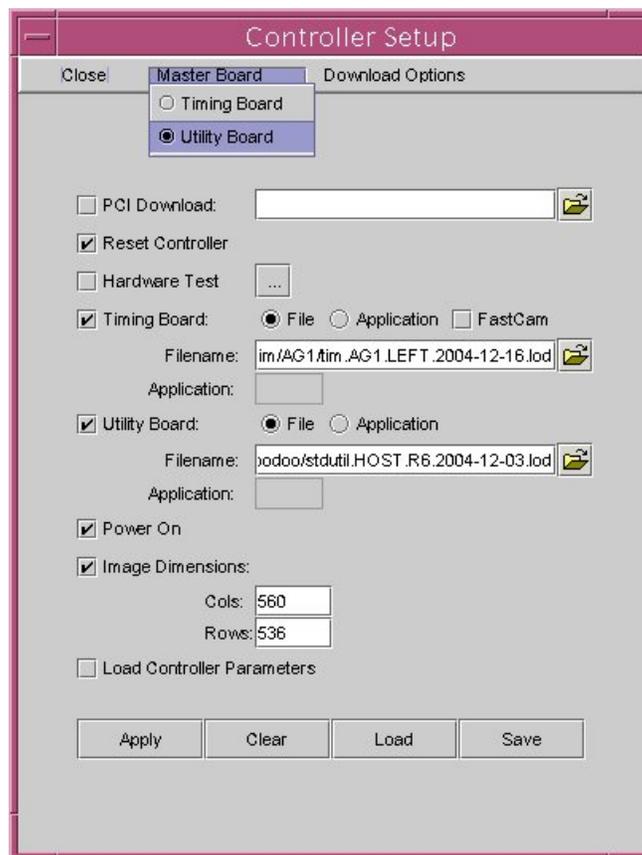
This window is buggy in that it doesn't start up with the correct size : the bottom row of buttons is not initially visible and you have to resize the window manually. It is similar to what you had to do with CCDTool. If you are not sure of the image dimensions then refer to the camera .asm file or the detector web pages. Configurations can be saved and

loaded to disc as with CCDTool. It is also important to make sure that the utility board is selected as the Master, this is done using the drop down menu as indicated on the above screen shot. If you don't do this the controller will not power on. The 'apply' button will then download the code and power on the controller. The main voodoo window, shown below, will show the progress of the download and power on. Notice that there is a small error message : 'Checking Controller Configuration….. failed'. Don't worry about this , it doesn't matter.
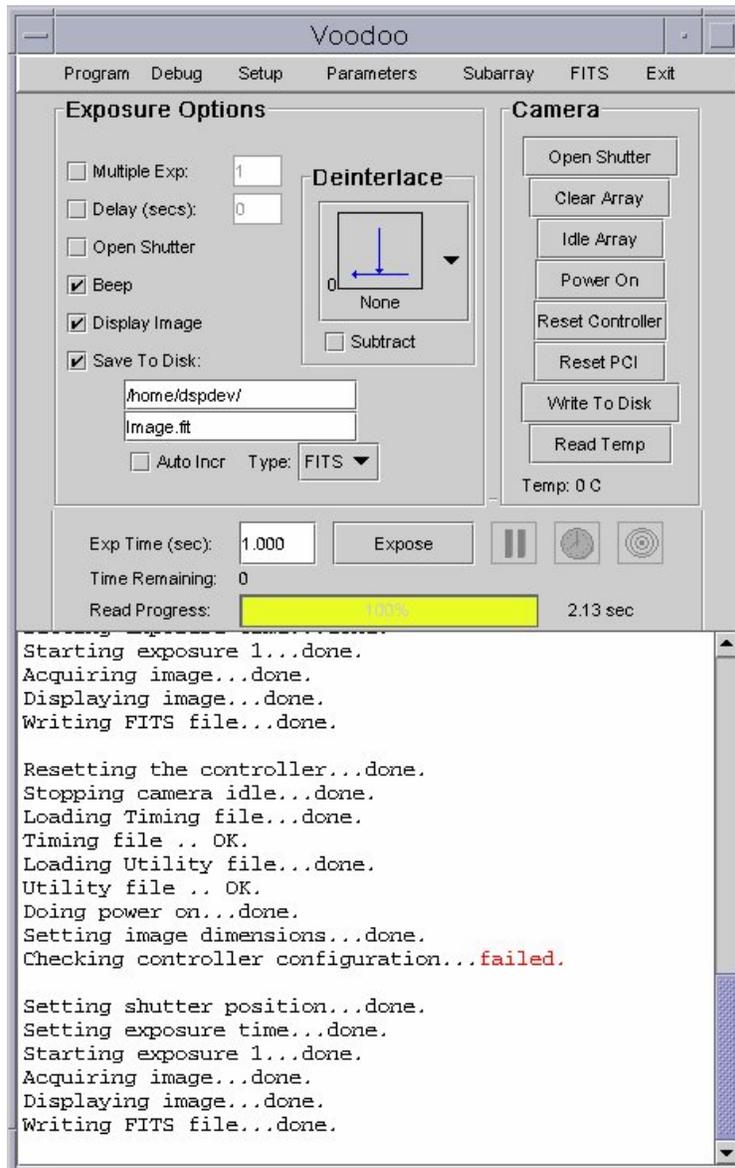
An image can then be taken by clicking on the Expose button. The screen shot above shows that the image just taken was successfully acquired, displayed and saved to disc.

Voodoo generally behaves OK unless it is given dodgy experimental lod files, in which case it gets very buggy and needs to be restarted (and the SDSU power cycled).