

Operating the Marconi CCD

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- Start of night
 - Double click on the Voodoo icon on the PC desk top.
 - Select “Parameters/Binning”. Set the binning. Click on “Apply”. Click on “Close”.
 - Select “Open Shutter”, “Save to Disk”, and “Auto Incr”.
- Exposing
 - The image display in Voodoo is not worth the bother. Save the images to the workstation (they are written to `~/imagenes/`) and use IRAF to display them.
 - For throw-away images (to check pointing, focus, etc.), put “`z0.fit`” into the image name field. Each time you expose, the image number will be incremented, so the images will appear as `z1.fit`, `z2.fit`, `z3.fit`, ...
 - For saved images (science and calibration exposures), put “`i1000.fit`” into the image name field. Each time you expose, the image number will be incremented, so the images will appear as `i1001.fit`, `i1002.fit`, `i1003.fit`, ...
 - (Actually, the first time you take an exposure, the number is not incremented. Be careful after restarting the software.)
 - When you switch between throw-away and saved images, put the name of the last image into the image name field.
 - For biases and darks, deselect “Open Shutter”. For biases, select 0 seconds. Select “Multiple Exp” if you wish.
 - If the counts exceed 32767, correct the images in IRAF using

```
chpix old new ushort
```
- End of night
 - Leave Voodoo running in order to keep the CCD at its operating temperature.