OptiPol Startup
October 2017 at WIRO

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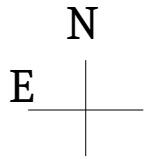
Revised for WIRO by Chip Kobulnicky

Startup at WIRO and notes (October 2017)



1) Install polarimeter so that filter wheel projects to the east. Then orient is and scale is 0.085 “/pix and FOV is 40” north-south by 80” east-west. Use the power supply attached to the telescope to provide 24 V to the BNC connection on the half wave plate interface.

2) Nominal focus is 0.042 at 22 deg F. Bias level is near 1200. Gain=___ RDN=__ e- at -40C

3) Connect to the Windows Vista computer MLOF1 as administrator using
`vncviewer 10.214.214.133:5900` and the admin password

4) Half wave plate is usually on COM1. Camera plugs into front USB, lower slot (COM19?). Filter wheel is on COM14 on rear USB (the only one that works...the lower right)

5) If observing remotely, do not shut down MLOF1 because it cannot be awakened by powering on the PDU#1. It will recover from a sudden power loss.

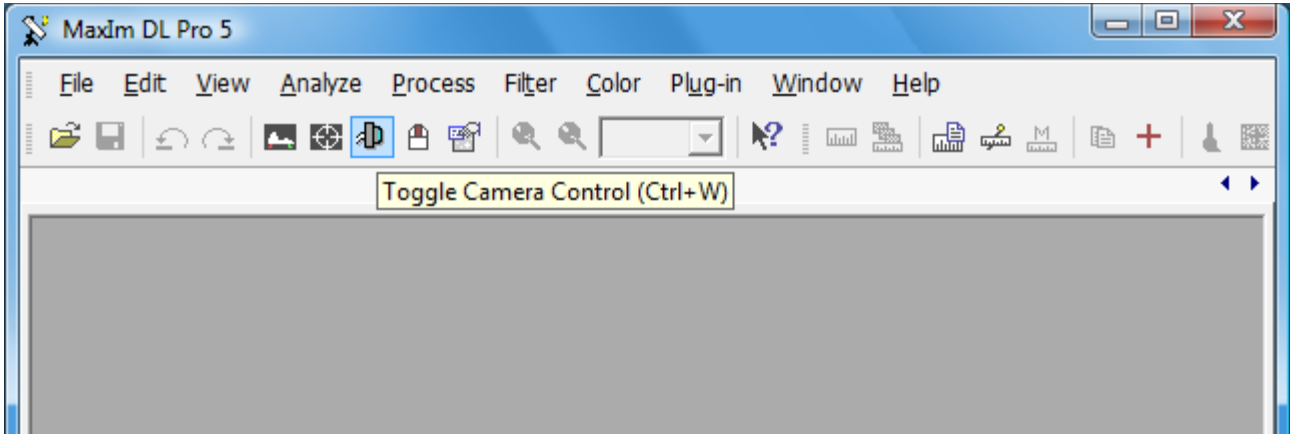
6) Polarization standards are in polarimeter.cat catalog.

7) Instrumental polarization table.

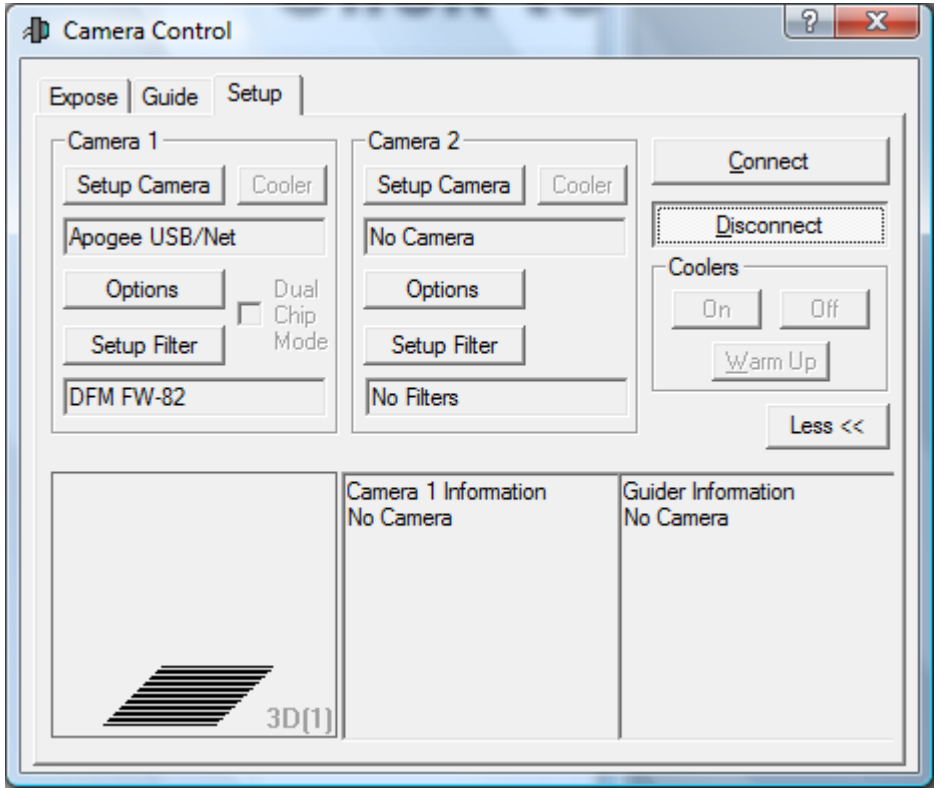
Band	U	B	V	R	I	cR
$P\%_{isntr}$						
PA_{ins}						

8) Domeflats in BVRI do 10 s at 99%,40%,35%,25% lamp. 30s in U at 99%

Open MaxIm DL
Click on ‘Toggle Camera Control’

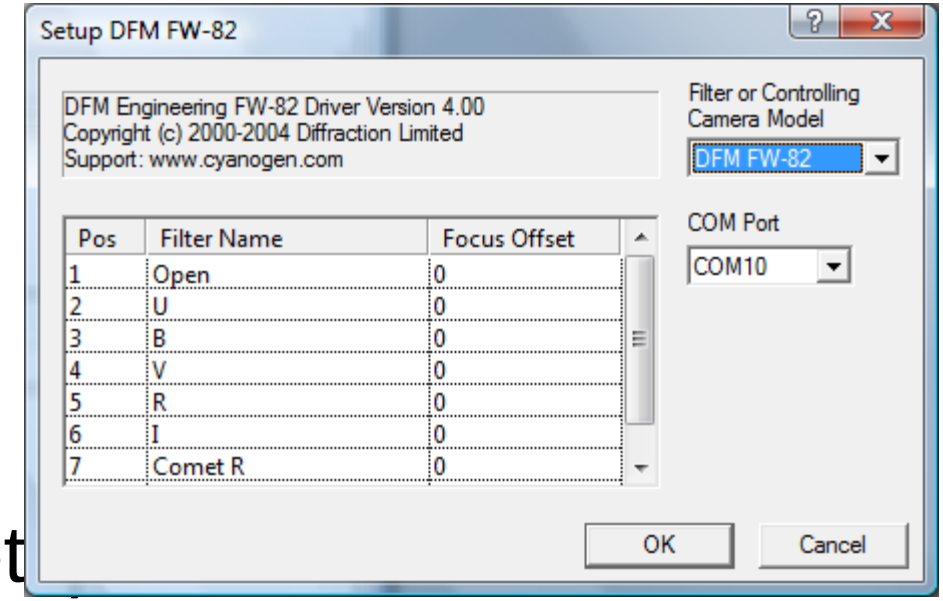


Under Camera 1, select Setup Filter

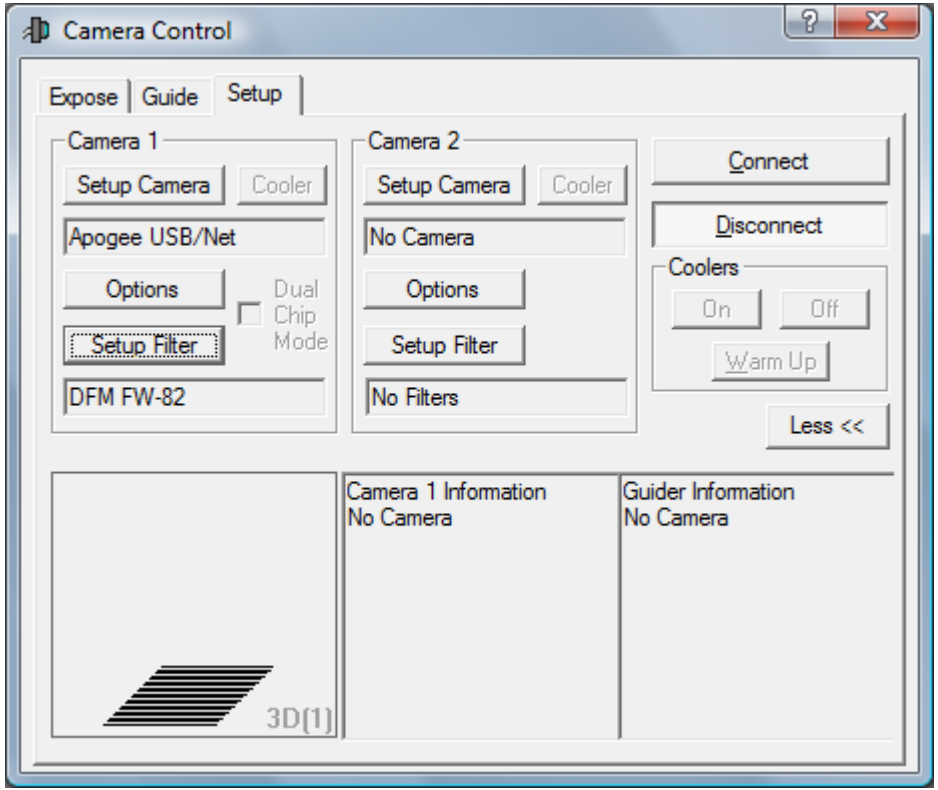


Select DFM FW-82,
COM Port = 14(?)

Make sure the
Filter Names read as
shown (Pos 8 = Comet
Click Ok

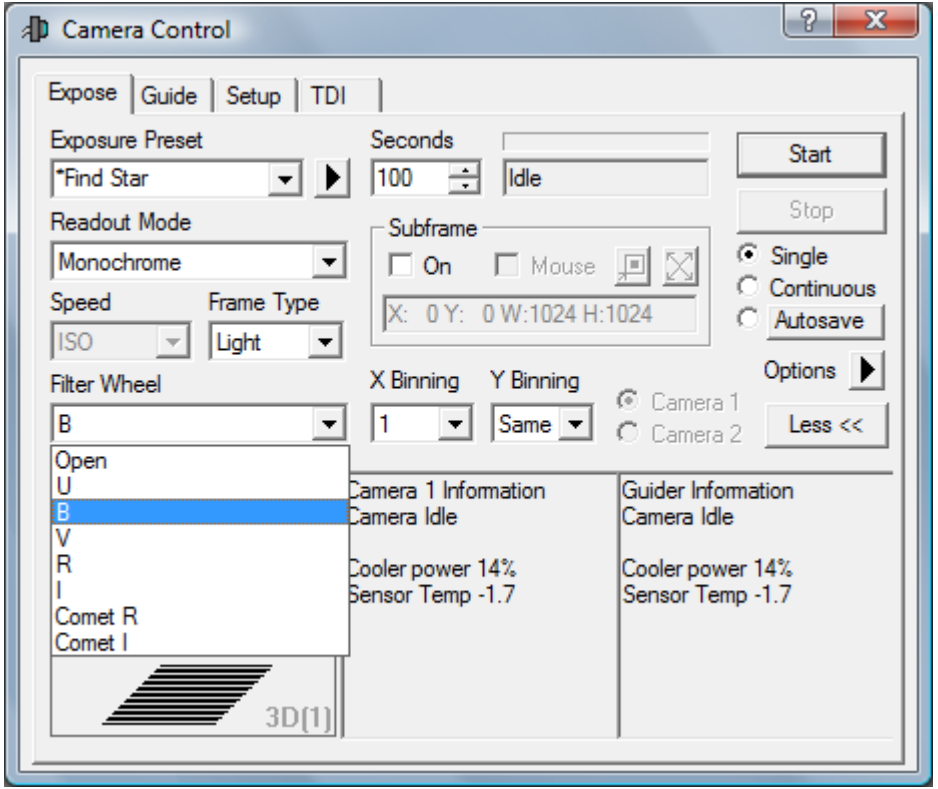


Make sure the camera and the filter wheel are ON and hit ‘Connect’

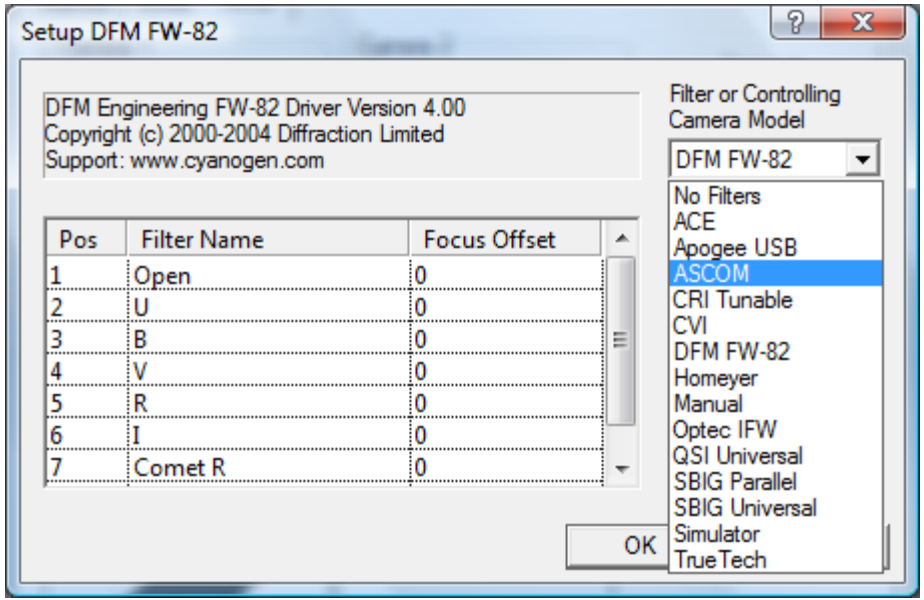


Switch to the ‘Expose’ tab and select the desired filter from the Filter Wheel dropdown

When Filter is selected, switch back to ‘Setup’ tab and hit ‘Disconnect’

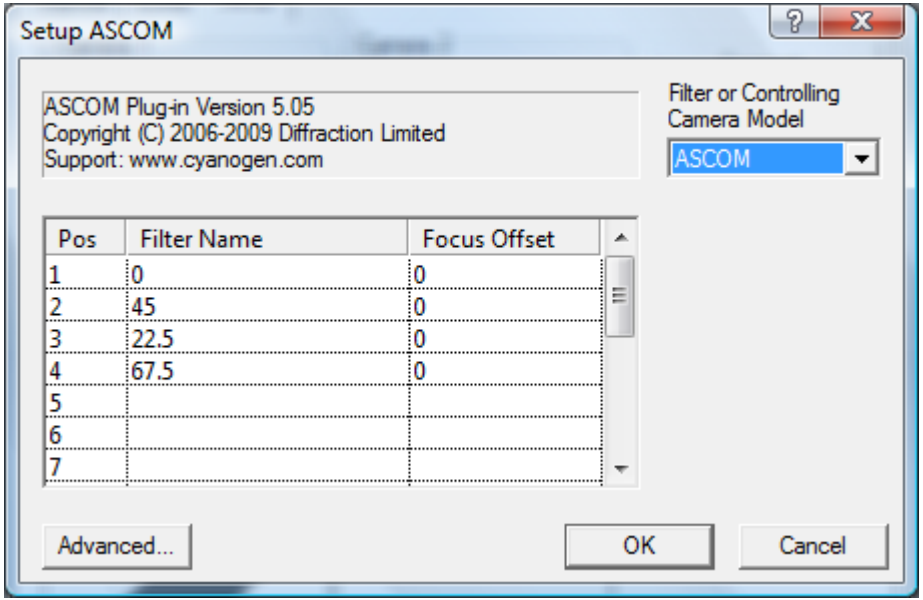


Select ‘Setup Filter’ again for Camera 1 and choose ASCOM.



Make sure the positions and filter names match the image below.

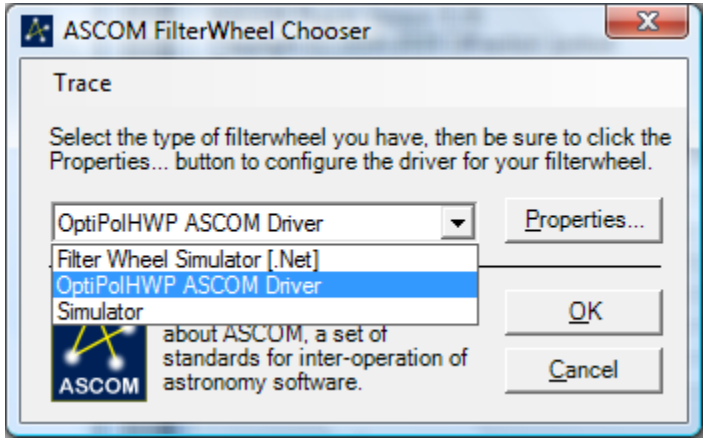
Press ‘Advanced...’

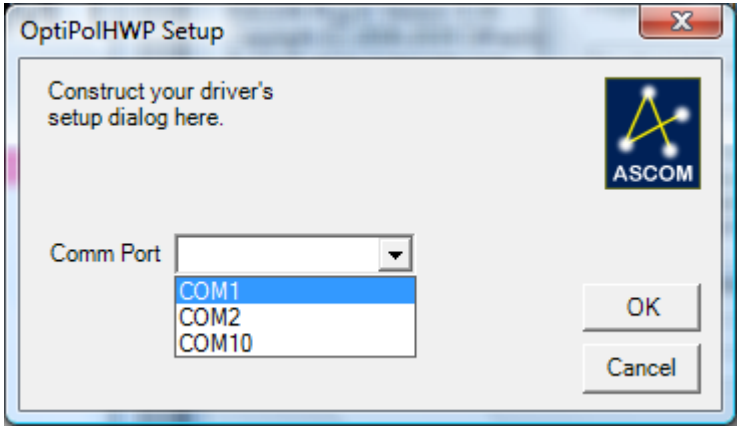


From the dropdown menu, select ‘OptiPolHWP ASCOM Driver’

Click ‘Properties’
Select ‘COM1’ as the Comm Port.

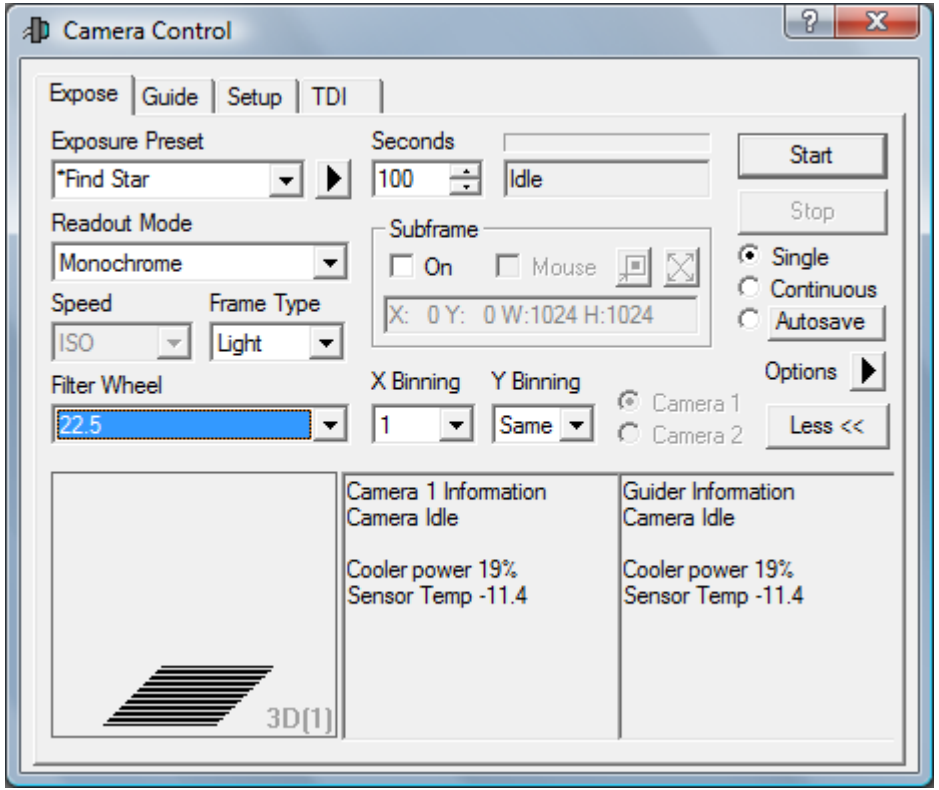
Press OK, and OK again to return to the Camera menu



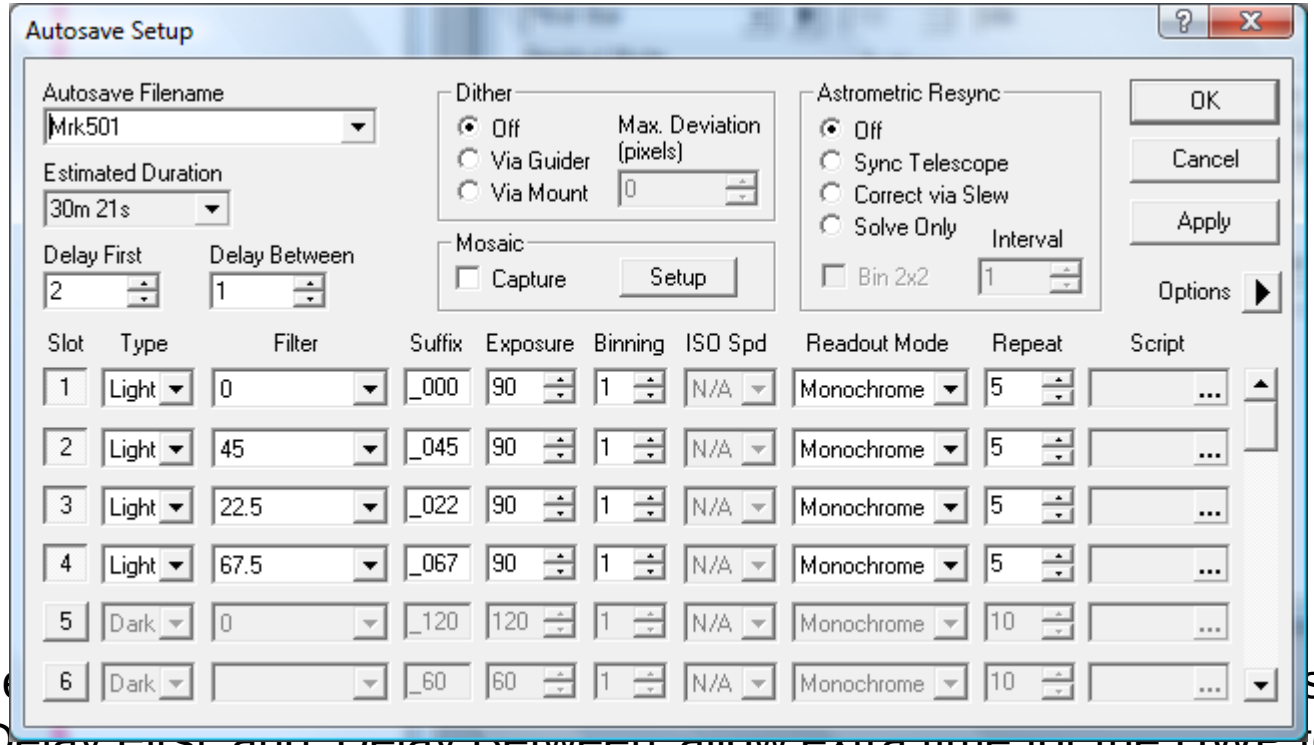


Press ‘Connect’ in the Setup tab and return to the Expose tab

The HWP position can now be selected from the Filter Wheel dropdown



Demo sequence (in autosave):



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The 'Delay First' and 'Delay Between' allow extra time for the FWF to move