

# PHD2 Guiding

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3/16/2018

updated 6/6/2018 by P Gabor

All of the required software is currently installed on the vattdev server.

- Open a session on the autoguide server on one of the Xterm clients.
- Open a terminal,
- type `ssh -Y vattdev`,
- log in as *vattobs*, and
- launch *indiserver* as described below.
- Open another terminal,
- type `ssh -Y vattdev`,
- log in as *vattobs*, and
- launch *phd2* as described below.
- Start autoguider software w/o telescope control (just for imaging)
  1. start indiserver and correct drivers
    - `$/home/vattobs/startindi`
  2. start phd2 guiding
    - `$phd2`
  3. configure phd2
    1. in the Main tool bar, click icon that looks like usb male connector
    2. connect equipment window should open up
    3. in connect equipment window, select camera type *INDI Camera*
    4. in connect equipment window, click on the icon that looks like a screwdriver and wrench in an "X"
    5. *INDI Configuration* window should open up
    6. in *INDI Configuration* window check following settings:
      - Hostname: localhost
      - port: 7624
      - driver: Apogee CCD
      - Dual CCD: Main
    7. click the *INDI* button near the bottom of the screen
    8. *INDI options* window should open up
    9. select the *Apogee CCD* tab
    10. check following settings:
    11. in the port section click the network button
    12. in the network section:
      - subnet: 10.0.255.255
      - ip:port : 10.0.3.14:2571
    13. click the connect button in the Connection field
    14. a bunch of new fields and tabs should appear..

15. near the bottom, turn on the cooler
  16. exit the INDI options window
  17. click OK in the INDI Configuration window
  18. click Connect in the Connect Equipment window, in the camera section
  19. the button should now say Disconnect
  20. click Close in the Connect Equipment window
  21. In the Main tool bar (it may be positioned anywhere in the window),
    - click the Advanced setup (brain icon) button (second from the right); a new window should appear.
  22. Set binning to the allowed maximum of 8×8:
    - Select the Camera tab,
    - in the group Camera-specific properties, set binning to 8 (pull down selector).
    - [Note. Ostensibly, binning can be set via INDI options as NxM where N and M may take any value you wish. This feature does not work. Binning can really be set only via the “brain” button.]
  23. Disable mount guide output:
    - Select the Guiding tab,
    - in the group Shared parameters disable *mount guide output* (uncheck the box); Guide output DISABLED should appear in the lower left of the main window. This should prevent PHD2 accidentally interfering, e.g., with the PEPSI guider.
  24. Set up automatic frame capture:
    - Select the Global tab,
    - check Enable diagnostic image logging, then
    - in the group Save Guider Images check Until this count is reached, and
    - set the value (100 is the maximum).
    - The files are stored on the *vattdev* server!
    - The directory */home/vattobs/PHD2/PHD2\_CameraFrames...* is automatically created for the whole session.
    - If you need to capture more than 100 images, make a renamed copy of the session directory; new *fits* files should start populating the original session directory.
4. Start Imaging
1. in the bottom left of the PHD2 window there is a button with 2 arrows forming a circle. Click that button.
  2. the button should gray out, the stop sign button should turn red, and images should start appearing

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Last update: 2018/06/07 17:32

