

# 74 inch Change: Mount SAAO CCD with/without Shara Focal Reducer

November 2008

For SAAO STE3 and STE4 detectors

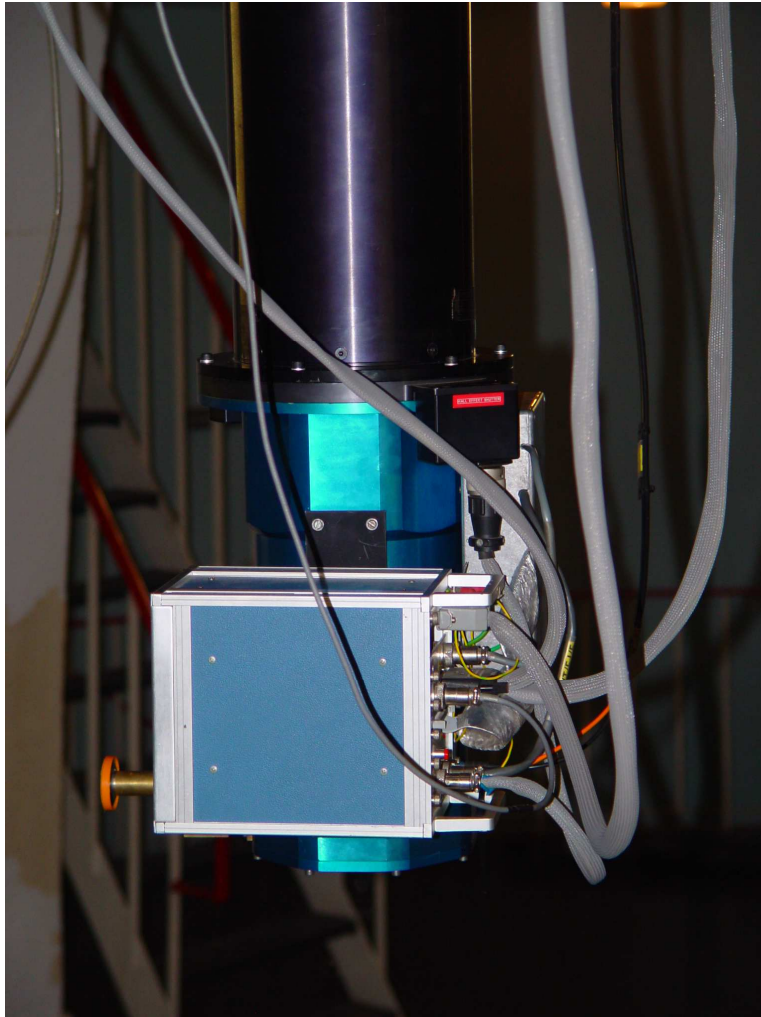
## Observing Floor

1. Mount SAAO acquisition box on large flange
  2. Mount Xyslides and autoguider as usual on south side of acquisition box
  3. Mount autoguider PSU on SE stalk
  4. Mount SAAO CCD PSU on NE stalk
  5. Mount filter box on acquisition box
  6. Mount CCD cryostat/shutter/turntable combination on filter box
- OR
7. Mount focal reducer on filter box, then mount CCD cryostat/shutter combination on focal reducer WITHOUT the turntable.
    - a. Note that the focal reducer image size is matched to a TEK/SITe 512<sup>2</sup> detector, it is a waste to install the STE4 1024<sup>2</sup> system. . . . .

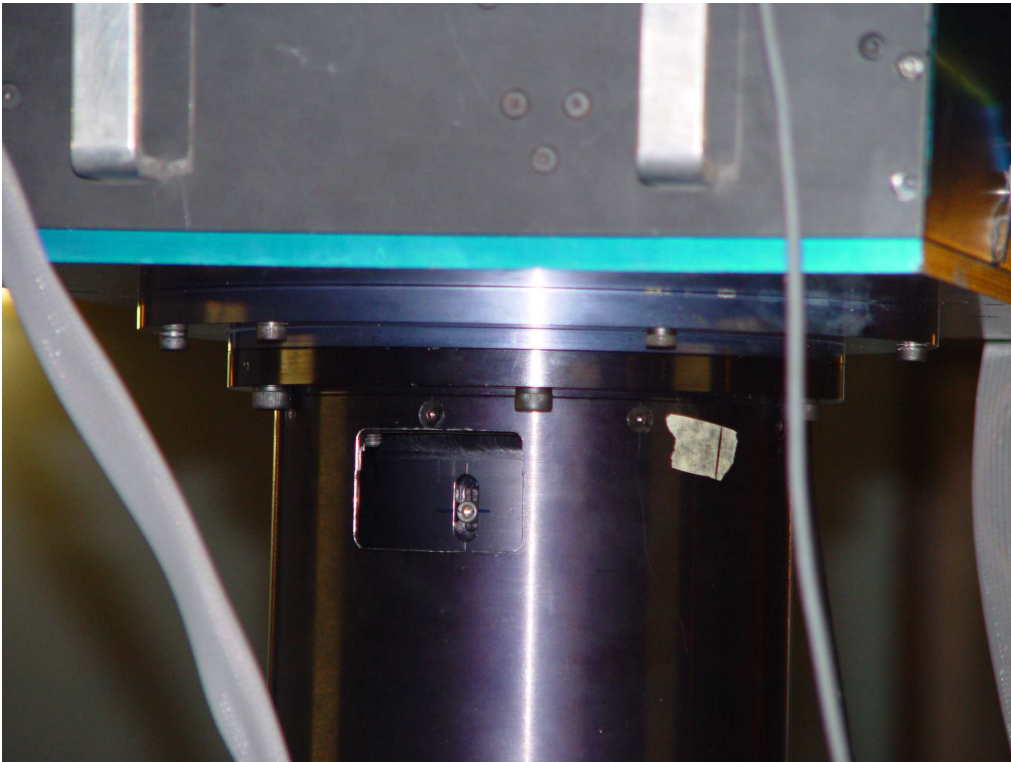
## Warm Room

1. Place PC on right hand end of desk – note PC to use is the old 486 DOS machine using the dual monitor setup – monochrome and VGA screens
2. Connect time cable, network and CCD controller fiber to the computer
3. Switch on computer and use option 3 (three) in the startup process to select S74 as the remote disk for data storage.
4. To start the software type <ccd> from anywhere and follow the prompts. Use the standard tech's <diag> user name. If unsure, use a unique (unused) run number to force proper instrument setup (CCD selection, filters, etc)
5. System functionality tests:
  - a. Test CCD readout, CCD exposure, (i.e. shutter open close OK), Filters – initialize and moves, and check CCD temperatures
  - b. Start up and test the TCS/XYslide/acquisition camera system in the usual way.

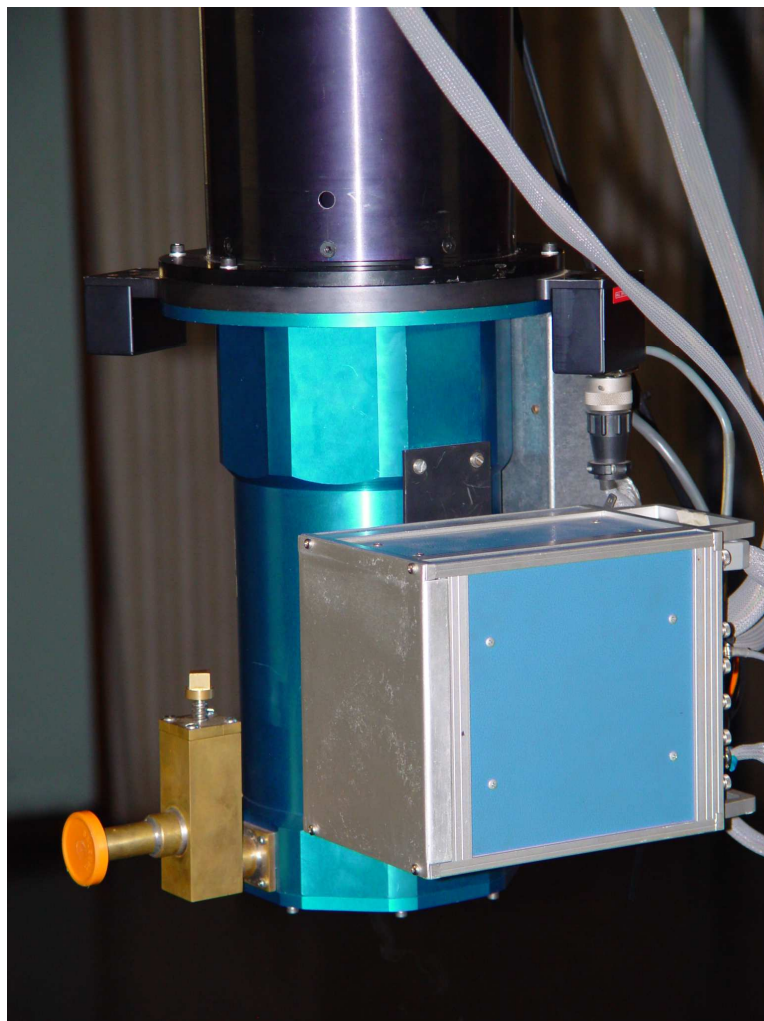
**Photos of the installation with the Shara focal reducer**

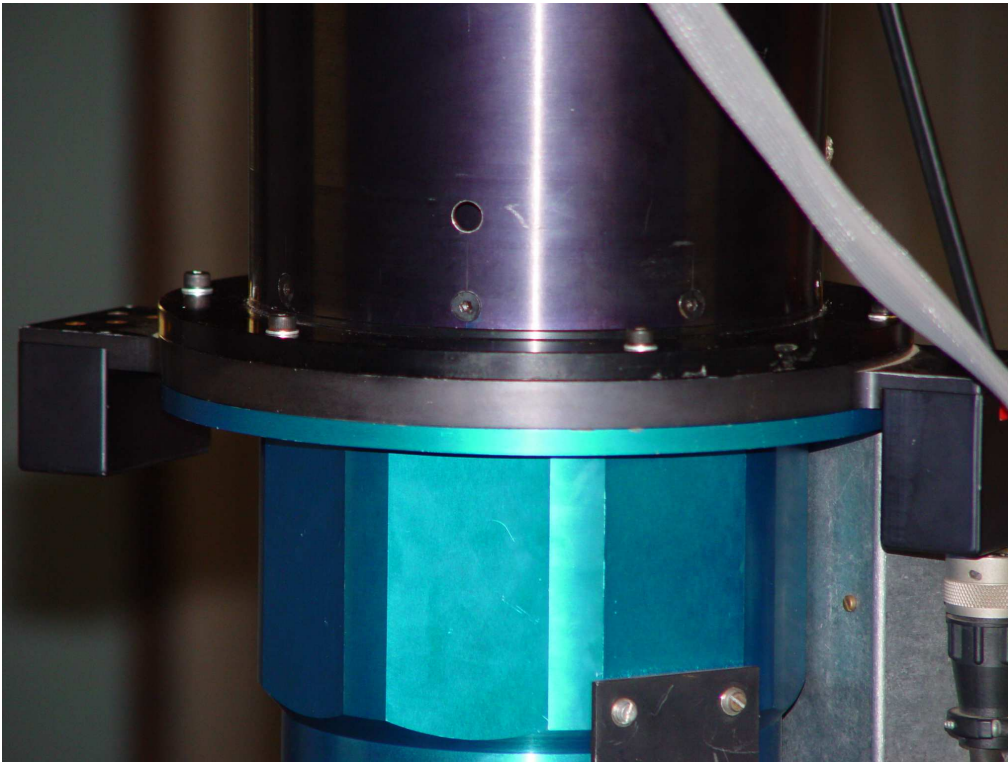


View from North East, with STE4 mounted

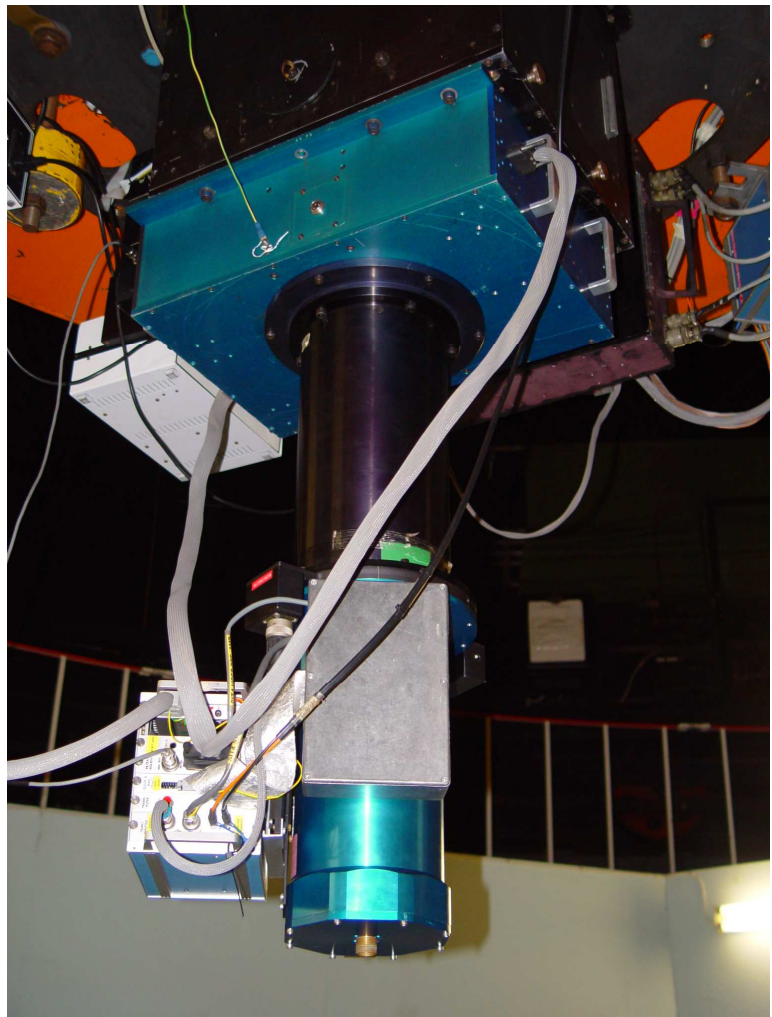


Closeup of focal reducer/filter box interface – do NOT adjust the hex nut, this sets the focus!

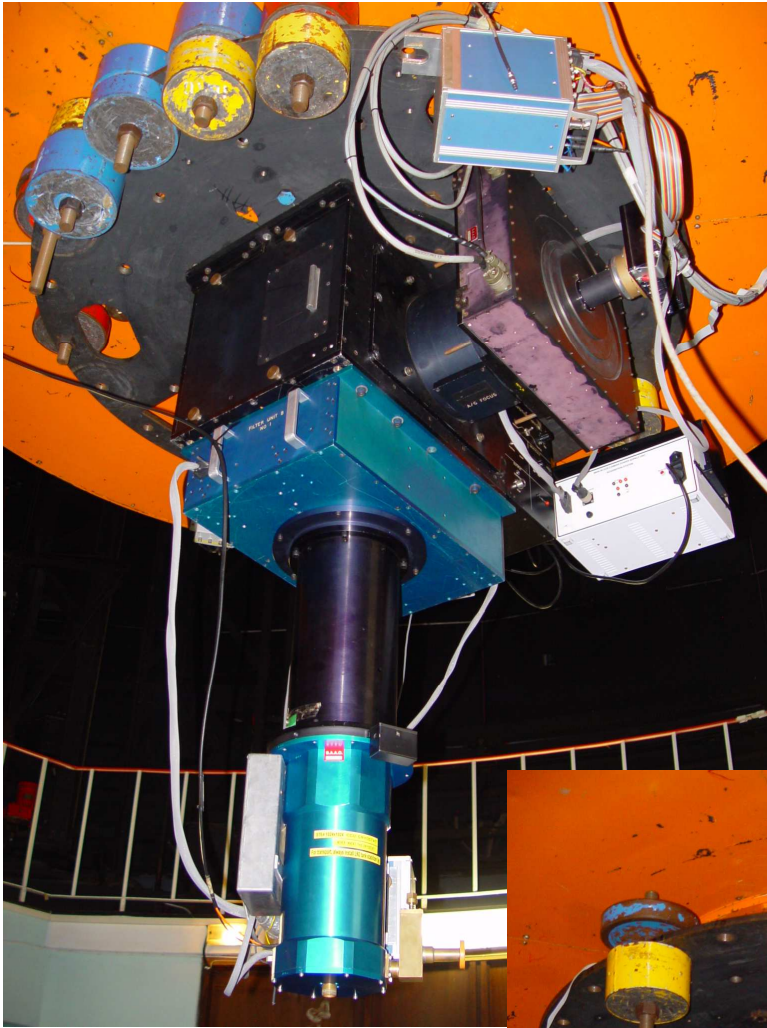




Closeup showing CCD cryostat/shutter/focal reducer interface – note NO turntable

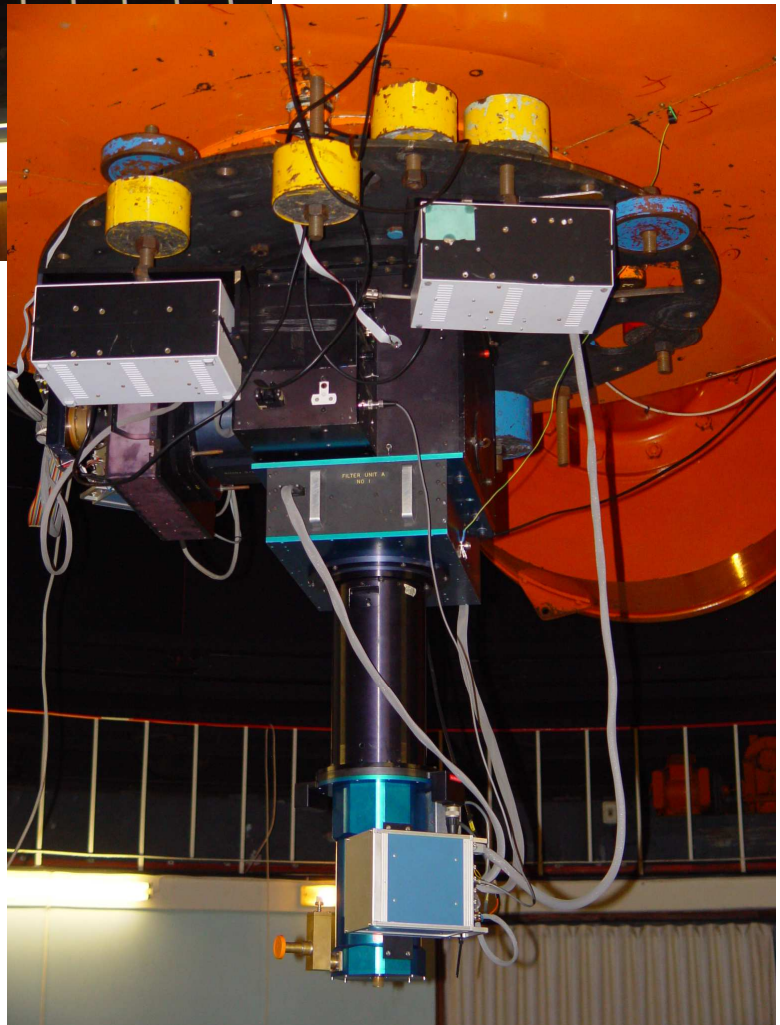


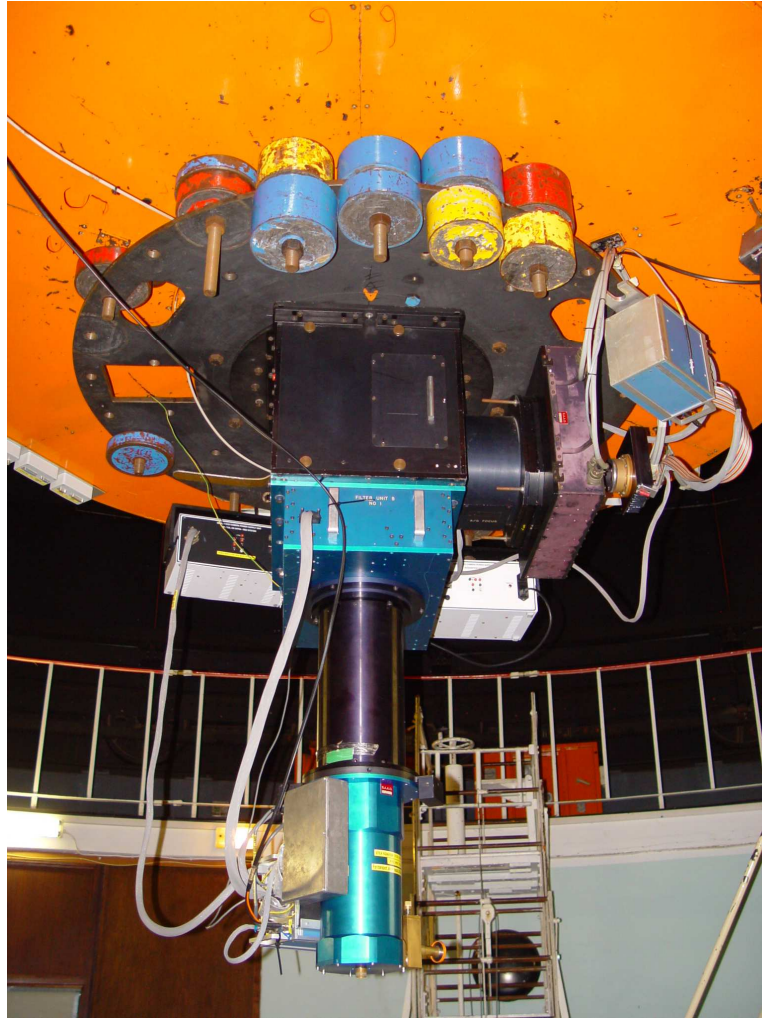
View from North west quadrant



View from south west quadrant

View from East side





View from West side