
Mauna Loa Solar Observatory Observer's Log

Mon Mar 4 18:25:21 GMT 2019

Year: 19 Doy: 063

Observer: berkey

WEATHER COMMENT: berkey: Mon Mar 04 18:28:42 GMT 2019

Temp: 38.9f, Humidity: 14%, Pressure: 28.759in, Wind: 7mph from 228deg, Skies: cirrus
____end____

Mon Mar 04 19:43:25 GMT 2019 Kcor Focus/alignment program exited

KCOR COMMENT BY berkey: Mon Mar 04 21:41:29 GMT 2019

Continued troubleshooting with on the dead kcor t-cam/cam1.

This morning I built labview focus/alignment to only talk to Rcam/cam0 based on our existing focus.vi. On the first pass I missed commenting out one set exposure call on cam1. The alignment code crashed and I incorrectly assumed and I found myself in a configuration where I could no longer talk to cam0 with pfremote. (In hindsight this was because labview still had an open reference to the camera blocking pfremote for getting access to the hardware).

Thinking the issue was hardware related I did a repeat of the inspections Allen did Saturday.

Control room camera links seemed fine.

Soiled Green Leds on the front

Blinking red leds on the back

Up stairs the camera link extenders both looked fine green LEDs.

Rcam status had a red LED

Tcam status no led

On power cycling of the upstairs equipment (camera and cameralink) I was able to reconnect to Rcam with pfremote.

Tcam was still offline.

Just to make sure we didn't have a cabling issue:

Power cables were swapped between the two cameras at the cameras.

We could connect to cam0 and not cam1. Note I moved Rcam focus; the knurled focus knob felt like the knurled thumb screw around the power cable.

Next swapped the extender->camera cameralink cables.

Now Rcam was talking to pfremote on the cam0 port; tcam still down on the cam1 port.

Extenders swapped back.

Conclusion1: TCAM 13890 appears to be dead

At this point I looked back into the labview code and found and commented out the code where I was trying to talk to Tcam/cam1. This fixed the crashing and I can now connect and disconnect from the cam0 with labview or pfremote at will.

Next socketcam:

socketcam source was edited to comment out calls to cam1. This was a bit of a hatched job but after a couple trial runs it appears to be working with 1 camera. Fits files are the same size as before with coronal data in the cam0/tcam half of the data file and 0's in the cam1/rcam half.

The new socketcam is called socketcam-cam0.exe and that name should appear in the fits header under the keyword socketcam. The TCAMID keyword has been hardcoded to 13890, Rcam still asks the camera for its ID.

With the diffuser in the Rcam was refocused on the sun. This appears to be a pretty good focus; but we will need to run another distortion test to be sure. Holding off on that until the replacement camera arrives from Boulder.

____end____

Mon Mar 04 21:48:37 GMT 2019 Kcor Focus/alignment program exited

GENERAL COMMENT BY berkey: Tue Mar 05 02:58:23 GMT 2019

No data today.

____end____

ONSITE STAFF: berkey