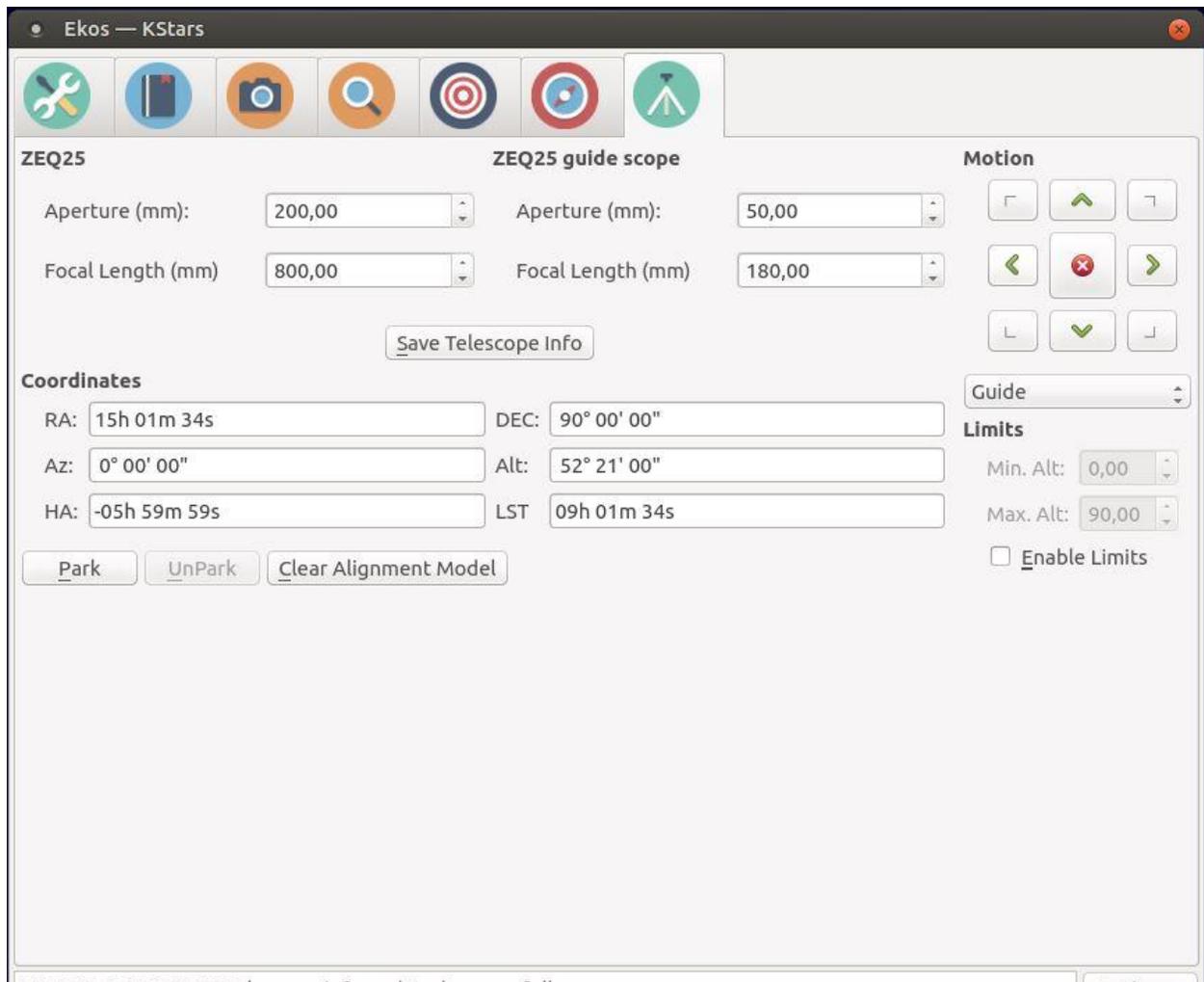


**Wishes for the leq45 2013 and earlier models ekos UI.**

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In this screen I would like to see some adjustments.

### 1: Setting moving rate

In the dropdown on the right with "guide, center etc." etc. should be replaced with the dropdown from the ieq45pro connection. The values should be from 1 to 9. Below the corresponding commands.

#### Setting move rate command;

**Command:** `":SRn#"`

Response: `"1"`

Sets the moving rate used for the N - S - E - W buttons. For n, specify an integer from 1 to 9. 1 stands for 1x sidereal tracking rate, 2 stands for 2x, 3 stands for 8x, 4 stands for 16x, 5 stands for 64x, 6 stands for 128x, 7 stands for 256x, 8 stands for 512x, 9 stands for maximum speed (larger than 512x)

#### Get moving rate command

**Command:** `":Gr#"`

Response: `"n#"`

2:Displaying side of pier

If possible I would like to get display on which side of the pier te telescope is. Read a lot about this mount and always thought that this information wasn't available. So wondering this can be done.

**Command: ":pS#"**

Response: "0" East,

Response: "1" West.

This command returns the side of the pier on which the telescope is currently positioned. It is useful for remote observatories where it is not possible for the viewer to see the mount. Initially, the mount must be manually positioned on the proper pier side for the calibration object and calibrated using the :CM# command.

**3: go to home position and is at home**

In front of the park and unpark button I would like to see a "Go To Home" button and a status if the mount is at home.

**Command: ":MH#"**

Respond: "1"

This command will slew to the "home" position immediately .

**Command: ":AH#"**

Respond: "0" The telescope is not at "home" position,

Respond: "1" The telescope is at "home" position.

This command returns whether the telescope is at "home" position

4: stop or start tracking

This could also be place in the indi control panel, but would be nice to put it here as wel. A button that can stop or start tracking.

**Command: ":ST0#" ":ST1#"**

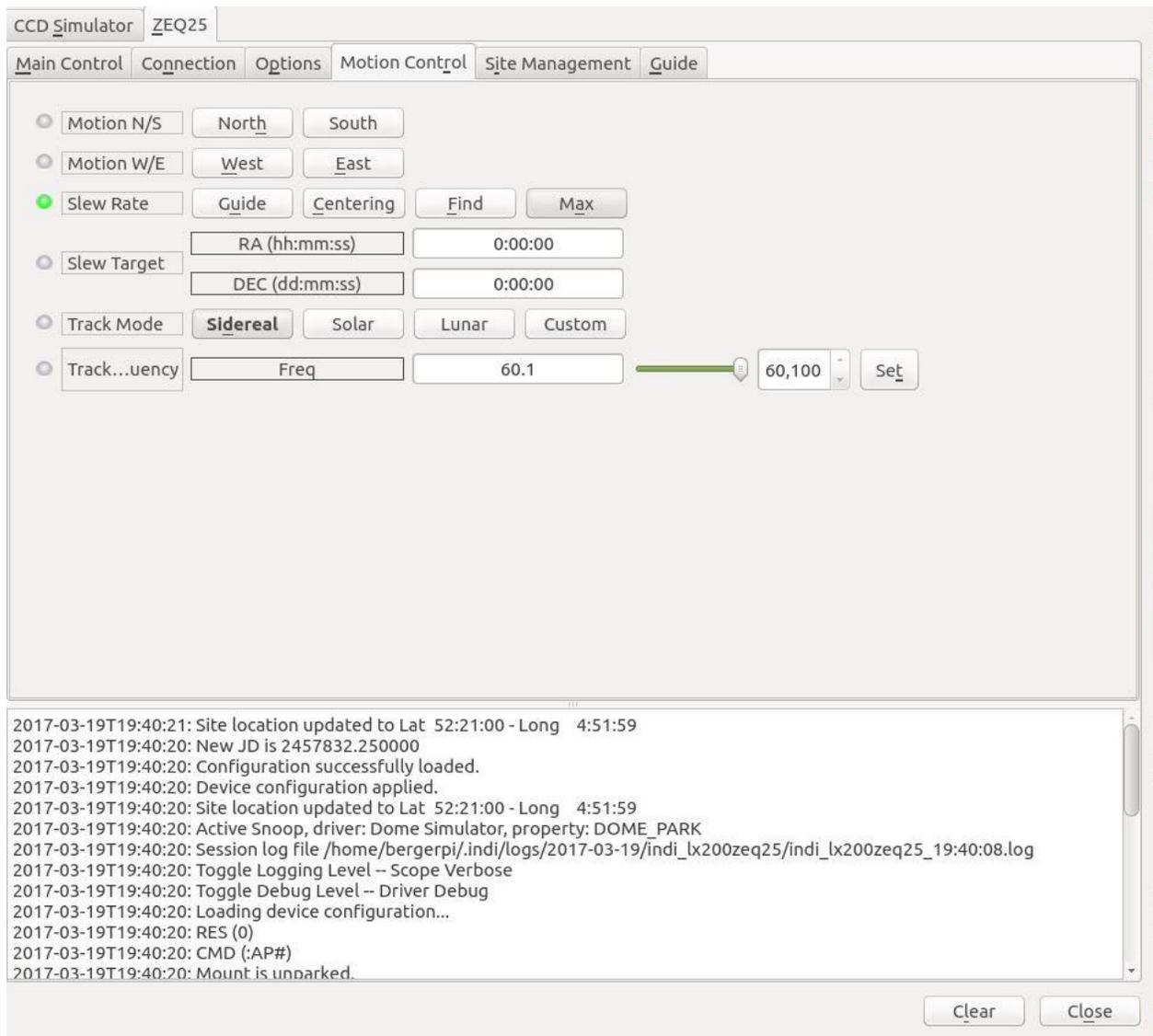
Respond: "1"

These command sets tracking state. ":ST0#" indicates stop tracking, ":ST1#" indicates start tracking.

**Command: ":AT#"**

Respond: "0"

The telescope is not tracking, "1" The telescope is tracking. This command returns whether the telescope is tracking.



Slew rate a displayed in above screen should be adjusted according the first wish from the first page. Tracking mode doesnt work. The button order should bet he same as listed below with the corresponding commands. Tracking fequency should be guiderate I think.

Command: “:QT#”

Response: “0”

Sidereal rate “1” Lunar rate “2” Solar rate “3” King rate “4” Custom rate

This command gets the tracking rate.

Command:

“:RT0#”

“:RT1#”

“:RT2#”

“:RT3#”

“:RT4#”

Response: “1”

This command selects the tracking rate. It selects:

- sidereal (:RT0#)
- lunar (:RT1#)
- solar (:RT2#)
- King (:RT3#)
- custom (“:RT4#”).

The sidereal rate is assumed as a default by the next power up.

This command has no effect on the use of the N - S - E - W buttons.

The screenshot shows the iEQ45 Pro software interface with the Motion Control tab selected. The interface includes several sections for configuring tracking and guiding parameters:

- Motion N/S:** Radio button selected, with buttons for North and South.
- Motion W/E:** Radio button selected, with buttons for West and East.
- Slew Rate:** Set to 8x.
- Slew Target:** RA (hh:mm:ss) and DEC (dd:mm:ss) both set to 0:00:00.
- Track Rates:** Rate set to 0, with a slider and a dropdown menu showing 0,000 and a Set button.
- Guide N/S:** North (ms) and South (ms) both set to 0, with a Set button.
- Guide E/W:** West (ms) and East (ms) both set to 0, with a Set button.
- Guiding Rate:** Set to x Sidereal 0.9, with a slider and a dropdown menu showing 0,900 and a Set button.

At the bottom of the window, there is a log window showing the following messages:

```
2017-03-19T19:54:55: Only received #10 bytes, expected 7.
2017-03-19T19:54:54: RES (1)
2017-03-19T19:54:54: CMD (:SR8#)
2017-03-19T19:54:53: Timeout error
2017-03-19T19:54:48: Only received #10 bytes, expected 7.
2017-03-19T19:54:47: Timeout error
2017-03-19T19:54:42: Only received #10 bytes, expected 7.
2017-03-19T19:54:41: RES (1)
2017-03-19T19:54:41: CMD (:RG090#)
2017-03-19T19:54:41: Timeout error
2017-03-19T19:54:36: Only received #10 bytes, expected 7.
2017-03-19T19:54:34: Timeout error
2017-03-19T19:54:29: Only received #10 bytes, expected 7.
2017-03-19T19:54:28: Timeout error
2017-03-19T19:54:22: Only received #10 bytes, expected 7.
```

Buttons for Clear and Close are located at the bottom right of the window.

Image of guiderate settings as implemented in ieq45 pro connection. Commands (as listed below) are ok and work.

**Command: ":AG#"**

Response: "n.nn# "

This command returns the guide rate.

**Command: ":RGnnn#"**

Response: "1"

Selects guide rate  $nnn * 0.01 \times$  sidereal rate. Nnn is in the range of 10 to 90, and 100.x