

Schulman 32" Telescope

Elevation: 2780 m = 9121 ft.
Latitude: 32° 26' 32.26" N (32.442294)
Longitude: 110° 47' 20.46" W (-110.789017)
Time Zone: Mountain Standard Time (UTC-07:00)
Primary Mirror Diameter: 0.81 m = 32 inches
f/7 Cassegrain focus
Plate Scale: 27.5 microns/arcsec = 36.4 arcsec/mm (nominal)
Typical Seeing: 1-2"
Focuser: 0.2668 microns per step
NCFZ: 33.5 micron, 151 steps

RA Axis

Motor: Kollmorgen C042A-13-3305
Motor Wheel Size: ~2.9022in (calculated)
Axis Wheel Size: 36.02in (laser measured)
Motor Counts per Rev: 13,014,364 (laser calibrated)

Encoder Tape: Renishaw 20µm pitch scale tape
Readhead: Renishaw RGH25
Interpolator: Renishaw RGF1000H250A
Encoder Wheel Size: 36.001in (laser measured)
Encoder Counts per Rev: 143,637,606 (calculated)

DEC Axis

Motor: Kollmorgen C042A-13-3305
Motor Wheel Size: ~2in
Axis Wheel Size: 23.990in (laser measured)
Motor Counts per Rev: ~12,500,000

Encoder Tape: RESM20USA300
Readhead: Renishaw RGH25 (assumed)
Interpolator: Renishaw Si-HN-4000-40-0-FN-003-3 (A-9572-1501)
Dual Interface: Renishaw DSi-QML-04
Encoder Wheel: 300mm
Encoder Counts per Rev: 188,800,000

General Information

Below is information for daily use of the Schulman Telescope.

New TCS Procedures

- [Startup Procedure](#)
- [\(REVISE\) Pre-observing Check](#)
- [\(REVISE\) Normal Operating Instructions](#)
- [\(REVISE\) Shutdown Procedure](#)

Cameras

[Mt. Lemmon All-Sky Camera](#)
[North Facing Dome Camera](#)
[South Facing Dome Camera](#)

Weather

[Clear Sky Chart for Mt. Lemmon](#)
[NOAA Mt. Lemmon Weather](#)
[Atmospheric Sciences Weather Website](#)
[Atmospheric Sciences Arizona IR](#)
[Atmospheric Sciences Arizona Radar](#)

Troubleshooting and Maintenance

- [Balance Configurations](#)
- [Finding Lost Telescope Position](#)
- [Focus Positions](#)
- [\(REVISE\) Cleaning the Optical Tape](#)
- [\(OLD CAMERA\) Cleaning the CCD Camera Filter Wheel](#)
- [\(REVISE\) Recharging the Main Camera Desiccant](#)
- [\(REVISE\) CO2 Snow Procedure](#)
- [\(REVISE\) Collimation](#)
- [\(OLD CONNECTION METHOD\) Flat Field Panel Reset](#)
- [\(OLD TCS\) Fixing the Park/Unpark Error](#)
- [\(REVISE\) ACP Changelog](#)

Additional Reading

- [\(REVISE\) Telescope Orientation Interpretation](#)
- [\(REVISE\) Review of Astronomical Coordinates](#)
- [\(REVISE\) Understanding Telescope Limits](#)
- [Astrometric TCS Stars List](#)

Diagrams

- [\(Old TCS\) Hardware/Software Diagram](#)
- [\(New TCS\) Hardware/Software Diagram](#)
- [\(REVISE\) Schulman Network](#)

Remote Astrophotograph

- [Getting Started](#)
- [ACP Web Interface](#)
- [Images and How to Retrieve Them](#)
- [ACP Planner](#)
- [Aladin Sky Atlas](#)

Old TCS Procedures (DO NOT USE)

- [Startup Procedure](#)
- [\(REVISE\) Desktop Icons and Software Layout](#)
- [\(REVISE\) Pre-observing Check](#)
- [\(REVISE\) Normal Operating Instructions](#)
- [\(REVISE\) Using the LCOGT GUI and Moving the Telescope](#)
- [Shutdown Procedure](#)

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