

Phillips 24" Telescope

Elevation: 2776 m = 9108 ft.
Latitude: 32° 26' 31.42" N
Longitude: 110° 47' 19.61" W
Time Zone: Mountain Standard Time (UTC-07:00)
Primary Mirror Diameter: 0.61 m = 24 inches
f/7.8 Cassegrain focus
Plate Scale: 23.1 microns/arcsec = 43.4 arcsec/mm (nominal)
Typical Seeing: 1.5-2.5"
Focuser: [needs calculation]
NCFZ: [needs calculation]

RA Axis

Motor: Teknic CPM-SDHP-2321S-ELS (4000 steps per rev)
Gearbox: APEX Dynamics AB060-S2-P1 (10:1)
RA Gear: Byer's 20 inch Research Grade RA gear (640 teeth)
Steps per Revolution: 25,600,000 steps (0.05063" per step)

DEC Axis

Motor: Teknic CPM-SDHP-2321S-ELS (4000 steps per rev)
Gearbox: APEX Dynamics AB060-S2-P1 (10:1)
Dec Gear: Byer's 15 inch Research Grade DEC gear (360 teeth)
Steps per Revolution: 14,400,000 steps (0.09000" per step)

Procedures

- [Startup Procedure](#)
- [Pre-observing Check](#)
- [Shutdown Procedure](#)

Cameras

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

Weather

[NOAA Mt. Lemmon Forecast](#)

[Astrospheric Forecast](#)
[Clear Sky Chart for Mt. Lemmon](#)
[Atmospheric Sciences Arizona IR](#)
[Atmospheric Sciences Arizona Radar](#)

Troubleshooting and Maintenance

- [Balance and Focus Positions](#)
- [Finding Lost Telescope](#)

Maintenance

- [\(REVISE\) Cleaning the Optical Tape](#)
- [\(OLD CAMERA\) Cleaning the CCD Camera Filter Wheel](#)

Advanced Maintenance

- [\(REVISE\) Recharging the Main Camera Desiccant](#)
- [\(REVISE\) CO2 Snow Procedure](#)
- [\(REVISE\) Collimation](#)

Diagrams

- [Hardware/Software Diagram](#)
- [Phillips Network](#)

Remote Astrophotograph

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

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