Phillips 24" Telescope

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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: 0.395 microns per step
NCFZ: [needs calculation]
```

RA Axis

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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)
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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