



Optical Guidance Systems Research Telescopes

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RC32-2000AA

Optical System Ritchey-Chretien

Primary Diameter 830 mm (all reflective)
Specular Precision $\leq 1/25$ wave front RMS
Mirror Substrate Zero expansion ceramic

Mirror Mounting Kinematic design holds collimation when

pointing below the horizon

OGS-2000 Altitude over Azimuth

Focal Ratio f/8.0 (Custom F/# available)

Image Scale 29 arc sec/mm
Tube Design Tube or truss

Tube Swing 3.7 meter diameter

Material Steel and Carbon fiber truss
Focus Nasmyth and optional Coude

Back Focus 250 mm

Secondary Diameter 35% (50% to 20% by design)

Sec. Focus Range ≠ 300 mm

Focus Stabilization Invar and Carbon fiber

Mounting

Azimuth bearing

Aux. Instrument Cap. 40 Kilogram when balanced

Tracking rates Sidereal to 4 degree/second <.3 arc sec RMS over 10 minute

Pointing Precision <15 arc sec RMS (after modeling)

R.A. Drive

Dec. Drive

Servo drive motor with axle encoding, 2.5 degree/sec. slew Servo drive otor with axle encoding, 2.5 degree/sec. slew encoding, 2.5 degree/sec. slew

Differential pointing <.2 arc second on 10 arc minute move

ABEC 7 Class ball bearings

Fasteners 18-8 stainless steel