

# ~~Optical Guidance Systems~~

## ~~Research Telescopes~~

2450 Huntingdon Pike, Huntingdon Valley, PA 19006

www.OpticalGuidanceSystems.com | 215.947.5571

### RC32-2000AA



#### Optical System

Primary Diameter  
Specular Precision  
Mirror Substrate  
Mirror Mounting

Focal Ratio  
Image Scale  
Tube Design  
Tube Swing  
Material  
Focus  
Back Focus  
Secondary Diameter  
Sec. Focus Range  $\nearrow$   
Focus Stabilization

#### Ritchey-Chretien

830 mm (all reflective)  
 $\leq 1/25$  wave front RMS  
Zero expansion ceramic  
Kinematic design holds collimation when pointing below the horizon  
f/8.0 (Custom F/# available)  
29 arc sec/mm  
Tube or truss  
3.7 meter diameter  
Steel and Carbon fiber truss  
Nasmyth and optional Coude  
250 mm  
35% (50% to 20% by design)  
300 mm  
Invar and Carbon fiber

#### Mounting

Aux. Instrument Cap.  
Tracking rates  
Tracking Precision  
Pointing Precision  
R.A. Drive  
Dec. Drive

#### OGS-2000 Altitude over Azimuth

40 Kilogram when balanced  
Sidereal to 4 degree/second  
<.3 arc sec RMS over 10 minute  
<15 arc sec RMS (after modeling)  
Servo drive motor with axle encoding, 2.5 degree/sec. slew  
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Differential pointing

<.2 arc second on 10 arc minute move

Azimuth bearing

ABEC 7 Class ball bearings

Fasteners

18-8 stainless steel

