



~~Optical Guidance Systems~~

~~Research Telescopes~~

2450 Huntingdon Pike, Huntingdon Valley, PA 19006

www.OpticalGuidanceSystems.com | 215.947.5571

RC40-2500AA

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

Mounting

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

Differential pointing

Azimuth bearing
 Fasteners

Ritchey-Chretien

1025 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)

25 arc sec/mm
 Tube or truss
 4.2 meter diameter

Steel and Carbon fiber truss
 Nasmyth and optional Coude

385 mm
 35% (50% to 20% by design)
 300 mm
 Invar and Carbon fiber

OGS-2500 Altitude over Azimuth

55 Kilogram when balanced
 Sidereal to 5 degree/second
 $< .3$ arc sec RMS over 10 minute

< 3 arc sec RMS (after modeling)

Direct drive torque motor with axle encoding, 10 degree/sec. slew
 Direct drive torque motor with axle encoding, 10 degree/sec. slew

$< .2$ arc second on 10 arc minute move

Oil hydrostatic
 18-8 stainless steel

