



~~Optical Guidance Systems~~

~~Research Telescopes~~

2450 Huntingdon Pike, Huntingdon Valley, PA 19006

www.OpticalGuidanceSystems.com | 215.947.5571

RC16-1000F

Optical System

| | |
|---------------------|-------------------------------------|
| Primary Diameter | 16.0" |
| Specular Precision | $\leq 1/25$ wave front RMS |
| Mirror Substrate | Near-zero expansion ceramic |
| Focal Ratio | f/8.5 |
| Image Scale | 60 arc sec/mm |
| Tube Diameter | 19" |
| Tube Length | 48" (active cooling, 12 V DC fans) |
| Material | Al (Mg; Carbon fiber are available) |
| Focuser Tube I.D. | 2.5" |
| Back Focus | 10" |
| Secondary Diameter | 6" |
| Sec. Focus Range | 12" (electronic) |
| Focus Stabilization | Invar 36 |

Ritchey-Chretien

Mounting

| | |
|----------------------|---|
| Aux. Instrument Cap. | 120 lbs. |
| Tracking Precision | <1 arc sec total maximum periodic & random (after modeling) |
| Pointing Precision | <30 arc sec RMS (after modeling) |
| R.A. Drive | 15" 360 tooth worm gear & ball bearing worm |
| Dec. Drive | 12" 360 tooth worm gear & ball bearing worm |
| Shafts | 4.0 Ø (R.A. 100mm at bearing ends; Dec. 55mm at bearing ends) |
| Motors | Servo or Direct Drive |
| Axis Intersection | 72" from base of pier (at 40°) |
| Fork Swing Clearance | 16" |
| Weight (system) | 675 lbs. |
| Pier | 36" high (custom heights available) |
| Fasteners | 18-8 stainless steel |

OGS-1000 Fork

