



# ~~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

