



# ~~Optical Guidance Systems~~

## ~~Research Telescopes~~

2450 Huntingdon Pike, Huntingdon Valley, PA 19006

www.OpticalGuidanceSystems.com | 215.947.5571

### RC24-1400F

#### Optical System

Primary Diameter	24.0"
Specular Precision	$\leq 1/25$ wave front RMS
Mirror Substrate	Zero expansion ceramic
Focal Ratio	f/8.0
Image Scale	42.1 arc sec/mm
Tube Diameter	29"
Tube Length	66" (active cooling, 12 V DC fans)
Material	Al (Mg; Carbon fiber are available)
Focuser Tube I.D.	4.2"
Back Focus	11.5"
Secondary Diameter	8.5"
Sec. Focus Range	12" (electronic)
Focus Stabilization	Invar 36

#### Ritchey-Chretien

#### Mounting

Aux. Instrument Cap.	75 lbs.
Tracking Precision	<1 arc sec total maximum periodic & random (after modeling)
Pointing Precision	<30 arc sec RMS (after modeling)
R.A. Drive	18" 570 tooth worm gear & ball bearing worm
Dec. Drive	15" 360 tooth worm gear & ball bearing worm
Shafts	6.0 Ø (R.A. 140mm at bearing ends; Dec. 75mm at bearing ends)
Motors	Servo or Direct Drive
Axis Intersection	72" from base of pier (at 40°)
Fork Swing Clearance	18"
Weight (system)	1245 lbs.
Pier	32" high (custom heights available)
Fasteners	18-8 stainless steel

#### OGS-1400 Fork