



~~Optical Guidance Systems~~

~~Research Telescopes~~

2450 Huntingdon Pike, Huntingdon Valley, PA 19006

www.OpticalGuidanceSystems.com | 215.947.5571

RC20-1000F

Optical System

Primary Diameter	20.0"
Specular Precision	$\leq 1/25$ wave front RMS
Mirror Substrate	Near-zero expansion ceramic
Focal Ratio	f/8.1
Image Scale	49.9 arc sec/mm
Tube Diameter	24.5"
Tube Length	54" (active cooling, 12 V DC fans)
Material	Al (Mg; Carbon fiber are available)
Focuser Tube I.D.	4.2"
Back Focus	10.5"
Secondary Diameter	7.25"
Sec. Focus Range	12" (electronic)
Focus Stabilization	Invar 36

Ritchey-Chretien

Mounting

Aux. Instrument Cap.	100 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	14"
Weight (system)	675 lbs.
Pier	36" high (custom heights available)
Fasteners	18-8 stainless steel

OGS-1000 Fork

