



~~Optical Guidance Systems~~

~~Research Telescopes~~

2450 Huntingdon Pike, Huntingdon Valley, PA 19006

www.OpticalGuidanceSystems.com | 215.947.5571

RC40-1900F

Optical System

Primary Diameter	40" (1 meter)
Specular Precision	≤ 1/25 wave front RMS
Mirror Substrate	Near-zero expansion ceramic
Focal Ratio	f/8
Image Scale	25 arc sec/mm
Tube Diameter	46"
Tube Length	100" (active cooling, 12 V DC fans)
Material	Al and Invar
Focuser Tube I.D.	4.2"
Back Focus	12"
Secondary Diameter	14.3"
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	24" 360 tooth worm gear
DEC Drive	18" 570 tooth worm gear
Shafts	8" Ø R.A. 190mm at bearing ends
Motors	Servo or Direct Drive
Axis Intersection	90" from base of pier (at 40°)
Fork Swing Clearance	32" from back of telescope
Weight (system)	3625 lbs.
Pier	30" high (custom heights available)
Fasteners	18-8 stainless steel

OGS-1900 Fork