

Optical Guidance Systems

Research Telescopes

2450 Huntingdon Pike, Huntingdon Valley, PA 19006

www.OpticalGuidanceSystems.com | 215.947.5571

RC24-1800F

Optical System

Primary Diameter
Specular Precision
Mirror Substrate
Focal Ratio
Image Scale
Tube Diameter
Tube Length

Ritchey-Chretien

24.2"
 $\leq 1/25$ wave front RMS
Near-zero expansion ceramic
f/8.0 (Custom F/# available)
42.1 arc sec/mm
29"
66"

Material

Steel and Carbon fiber truss

Focuser Tube I.D.

4.2"

Back Focus

11.5"

Secondary Diameter

8.5"

Sec. Focus Range \nearrow

12" (electric)

Focus Stabilization

Carbon fiber

Mounting

Aux. Instrument Cap.

95 lbs.

Tracking Precision

<1 arc sec total maximum periodic & random (after modeling)

Pointing Precision

<20 arc sec RMS (after modeling)

R.A. Drive

Direct drive torque motor
Heidenhain encoding

Dec. Drive

Direct drive torque motor
Heidenhain encoding

Shafts

R.A. 200mm at bearing ends
Dec. 100mm at bearing ends

Axis Intersection

72" from base of pier (at 40°)

Fork Swing Clearance

20"

Weight (system)

1795 lbs.

R.A. Counterweights

Internal

Pier

32" high (custom heights available)

Fasteners

18-8 stainless steel

