



Optical Guidance Systems

Research Telescopes

2450 Huntingdon Pike, Huntingdon Valley, PA 19006

www.OpticalGuidanceSystems.com | 215.947.5571

CC20-1400F

Optical System

Primary Diameter	20.0"
Specular Precision	$\leq 1/25$ wave front RMS
Mirror Substrate	Near-zero expansion ceramic
Focal Ratio	f/16
Image Scale	25 arc sec/mm
Tube Diameter	24.5"
Tube Length	78" (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	5"
Sec. Focus Range	12" (electronic)
Focus Stabilization	Invar 36

Classical-Cassegrain

Mounting

Aux. Instrument Cap.	175 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
Dec. Drive	15" 360 tooth worm gear
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	21"
Weight (system)	925 lbs.
Pier	32" high (custom heights available)
Fasteners	18-8 stainless steel

OGS-1400 Fork