



~~Optical Guidance Systems~~

~~Research Telescopes~~

2450 Huntingdon Pike, Huntingdon Valley, PA 19006

www.OpticalGuidanceSystems.com | 215.947.5571

CC16-750F

Optical System

Primary Diameter	16" (AlSiO2 coating)
Specular Precision	≤ 1/25 wave front RMS (633nm)
Mirror Substrate	Zero expansion ceramic
Focal Ratio	f/14.25
Image Scale	36 arc sec/mm (.48 degree FOV)
Tube Diameter	19"
Tube Length	61" (active cooling, 12 V DC fans)
Material	Al (Mg; Carbon fiber are available)
Focuser Tube I.D.	2.5"
Back Focus	10" behind mounting surface
Secondary Diameter	4.5"
Sec. Focus Range	5" (stepping motor)
Focus Stabilization	Invar 36 or carbon fiber tubes

Classical-Cassegrain

Mounting

Aux. Instrument Cap.	45 lbs.
Tracking Precision	<1 arc sec total maximum periodic & random (after modeling)
Pointing Precision	<30 arc sec RMS (after modeling)
R.A. Drive	12" 360 tooth worm gear & ball bearing worm
Dec. Drive	12" 360 tooth worm gear & ball bearing worm
Shafts	3.0 Ø (R.A. 75mm 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	16"
Weight (system)	490 lbs.
Pier	42" high (custom heights available)
Fasteners	18-8 stainless steel

OGS-750 Fork