

~~Optical Guidance Systems~~

~~Research Telescopes~~

2450 Huntingdon Pike, Huntingdon Valley, PA 19006
www.OpticalGuidanceSystems.com | 215.947.5571

RC14.25 XZe - MX



Optical System

Primary Diameter	14.25"
Specular Precision	$\leq 1/25$ Wave Front RMS
Mirror Substrate	Zero Expansion Ceramic
Focal Ratio	f/8
Image Scale	70.9 Arc Sec/mm
Tube Diameter	18"
Tube Length	40
Active Cooling	Magnetic Levitation Fans
Material	Carbon Fiber
Focuser Tube I.D.	2.5"
Back Focus	9.5"
Secondary Diameter	5.5"
Sec. Focus Range \nearrow	5" (Robo Focus)
Focus Stabilization	Over 100° F Range

Ritchey-Chretien

Mounting

Instrument Cap.	100 lbs.
Tracking Precision	≤ 1 Arc Sec After Error Correction
Pointing Precision	< 10 -30 Arc Sec RMS (After Modeling)
R.A. Drive	Al. 11.4", 576 Tooth Research Grade Gear
Dec. Drive	Al. 7.4 5", 375 Tooth Research Grade Gear
R.A. Bearings	8.6" O.D., 5.9" I.D.
Dec. Bearings	6" O.D., 4.3" I.D.
Worm Blocks	Spring Loaded, Near Zero Backlash
Pier	48" High

Paramount MX

