**Optical System** | **Ritchey-Chretien**
---|---
Primary Diameter | 12.5”
Specular Precision | \( \leq \frac{1}{25} \text{ Wave Front RMS} \)
Mirror Substrate | Zero Expansion Ceramic
Focal Ratio | f/9
Image Scale | 72.1 Arc Sec/mm
Tube Diameter | 15.5”
Tube Length | 40
Active Cooling | Magnetic Levitation Fans
Material | Carbon Fiber
Focuser Tube I.D. | 2.5”
Back Focus | 9.5”
Secondary Diameter | 5”
Sec. Focus Range | 5” (Robo Focus)
Focus Stabilization | Over 100° F Range

**Mounting** | **Paramount MX**
---|---
Instrument Cap. | 100 lbs.
Tracking Precision | \( \leq 1 \text{ Arc Sec After Error Correction} \)
Pointing Precision | \(< 10 \text{ -30 Arc Sec RMS (After Modeling)} \)
R.A. Drive | Al. 11.4”, 576 Tooth Research Grade Gear
Dec. Drive | Al. 7.4 5”, 375 Tooth Research Grade
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