



THE EXTENSION OF EVOLUTION OF HIGH-END TELESCOPE SYSTEMS WITH 2.0M APERTURE.

This complete solution represents a fully integrated alt-az observatory system. The AZ 2000 is equipped with quartz optics from ASA. This guarantees diffraction-limited performance and best micro-roughness values even under the most perfect Earth-based astronomical seeing conditions. With fast focal ratio, the design results in less obstruction, higher contrast, and a more compact system. The size and cost of your dome infrastructure is reduced.

2000mm f6/f2 Ritchey-Chrétien Nasmyth design is equipped with absolute encoder secondary mirror focusing unit and configurable with up to 4 Nasmyth ports.

Main Facts

Optical design

Ritchey-Chrétien RC

Linear central obstruction

41%

Focus position

Nasmyth 2 as standard, 4 as option

Focal ratio system

f6

Clear Aperture / Focal Ratio Primary Mirror

2000mm (78,7 inch) / f2

Mirror material

Zerodur

Surface quality

>94 strehl

Microroughness

1nm RMS / <0.7nm Ra

Coating

Al+SiO₂ >91%

Back Focus from flange

360mm

Weight tube

9000kg (19842lbs)

Software

ASA API (application programming interface) available autumn 2023 ASA Software(Autoslew, Sequence-windows based, ACC) with ASCOM-Alpaca

Pointing Accuracy (20° to 85°)

<8" RMS with pointing model

Tracking Accuracy (20° to 85°)

<0,25" RMS within 5 minutes tracking time over 5 min 0,05" RMS/min

System Natural Frequency

10 Hz or greater