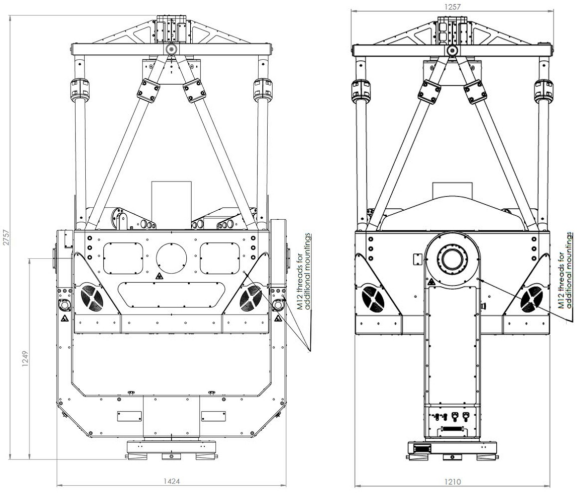
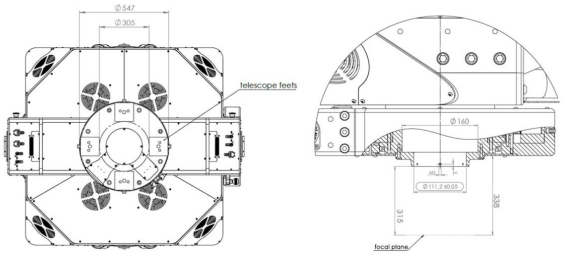
ASA AZ1000 Ritchey-Chrétien Alt-Az telescope f7

ASA AZ1000 Ritchey-Chrétien Alt-Az telescope f7





NEXT LEVEL HIGH-END TELESCOPE SYSTEM WITH 1M APERTURE.

This complete solution represents a fully integrated alt-az observatory system. The AZ1000 1m 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.
1000mm f7/f2 Ritchey-Chrétien Nasmyth design is equipped with absolute encoder secondary mirror focusing unit and configurable with up to 3 Nasmyth ports.

Main Facts

Optical design
Ritchey-Chrétien RC

Linear central obstruction
40%

Focus position
Nasmyth 2 as standard, 4 as option

Focal length
7000mm

Focal ratio system
f7

Clear Aperture / Focal Ratio Primary Mirror
1000mm (39.4 inch) / f2

Image field
150mm (1.22 degrees)

Mirror material
Fused silica

Surface quality
>94 strehl

Microroughness
1nm RMS / <0.7nm Ra

Coating
Al+SiO2 >91%

Back Focus from flange
338mm

Weight tube
1200kg (2646lbs)

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

ASA AZ1000 Ritchey-Chrétien Alt-Az telescope f7