









AN EVOLUTION MILESTONE OF HIGH-END TELESCOPE SYSTEMS WITH 1.75M APERTURE.

This complete solution represents a fully integrated alt-az observatory system. The AZ1750 1.75m 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.

1750mm f2/f6 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

42%

Focus position

Nasmyth 2 as standard, 4 as option

Focal ratio system

f6

Clear Aperture / Focal Ratio Primary Mirror

1750mm / f2

Image field

150mm (0.82 degrees)

Mirror material

Zerodur

Surface quality

>94 strehl

Microroughness

1nm RMS / <0.7nm Ra

Coating

Al+SiO2 >91%

Back Focus from flange

360mm

Weight tube

6500kg (14330lbs)

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

