



## THE EXTENSION OF EVOLUTION OF HIGH-END TELESCOPE SYSTEMS WITH 2.5M APERTURE.

This complete solution represents a fully integrated alt-az observatory system. The AZ 2000, with ASA's biggest mirror with 2.5m, 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.

2500mm 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

2500mm (98,4 inch) / f2

### Mirror material

Zerodur

### Surface quality

>94 strehl

### Microroughness

1nm RMS / <0.7nm Ra

### Coating

Al+SiO<sub>2</sub> >91%

### Back Focus from flange

360mm

### Weight tube

17000kg (37478lbs)

### 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