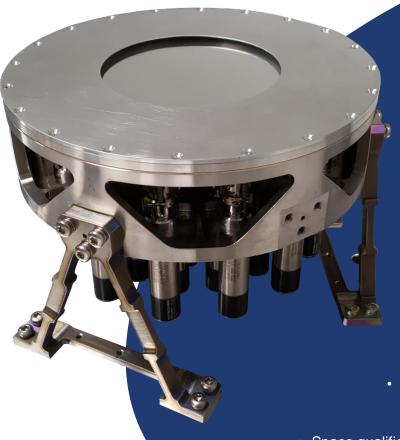


## **MD-AME SPACE**

Deformable Mirror dedicated to wave-front correction in Space applications

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MD-AME Space mirrors use  $\mu$ AME-Space\* actuators for wave-front correction: the optical surface keeps its shape even when the system is unpowered.



- Improves imaging quality of spatial telescopes
- Very high long-term stability unpowered
  - Low voltage power supply: 24V
  - High redundancy thanks to its design
  - Correction possible with lost actuators.
- Low hysteresis ( < 0.1%)
- Very low energy consumption
- Allows a reduction of optics manufacturing constraints
- Space qualified (embedded in satellites)
- · Large correction amplitude

\*µAME : Micro Strength Actuator patented by ISP System

Example Features: MD85-C-31-SPACE

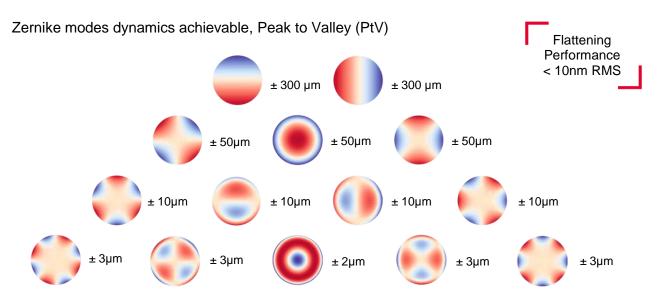


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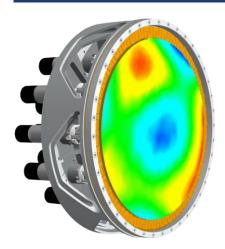
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- · Working pupil : Diameter 85 mm
- · Metallic coating
- · 31 actuators (µ-AME12-Space)
- · Zernike order 4
- · Size Ø180 x 100mm (excluding connectors)
- · Weight 4kg



PtV dynamics are related to a diameter 85mm circular aperture. Depending on the modes, the rms residual wave-front errors represent between 0.1% and 1% of the correction.

## **Custom solutions**



Thanks to its experience and skills, ISP System offers services to design custom solutions in order to meet your requirements. The main customable features are :

- · Actuators quantity and Pattern
- · Achievable Zernike modes dynamics and order
- Aperture size and angle of incidence, from 0° to 45°
- Optical surface coating (wavelength, damage threshold, reflectivity...)
- Redundant Windings



## **MD-AME SPACE**

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