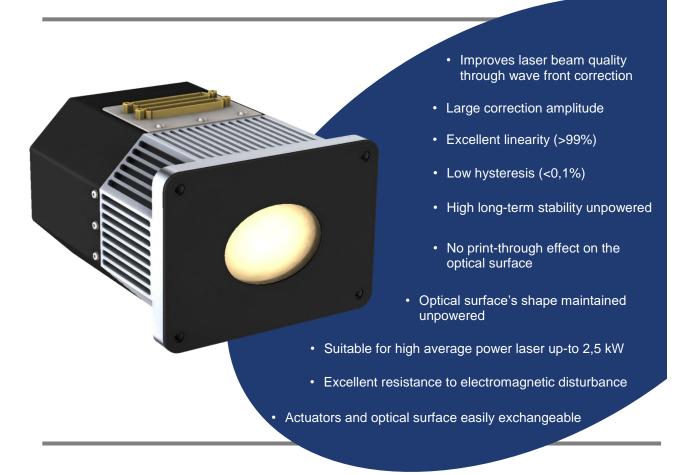


## **DEFORMABLE MIRROR – MD-AME- IR**Erreur! Nom de propriété de document inconnu.

DATACHEET HODOADOOCEDOOOO NO C

Deformable Mirror dedicated to beam shaping and wave-front correction for IR laser application (@10,6µm) by using µAME actuators.



- Working pupil: Ø60mmxØ85mm, circular beam, angle of incidence=45°
- Total aperture Ø100mm
- Dedicated coating for beam λ=10,6μm, circular polarization maintained @ 45°
- Active cooling (25W absorbed): Need for water cooling circuit and dry air (30%HR max@20°C).
- Temperature monitoring (safety alert)
- 35 Actuators (actuators quantity can be adjusted for each application)
- High Zernike order correction
- Compatible with any wave-front sensor technology
- Size W 300 x H 300 x D 250 (excluding connectors)
- Weight 25kg (to be confirmed)

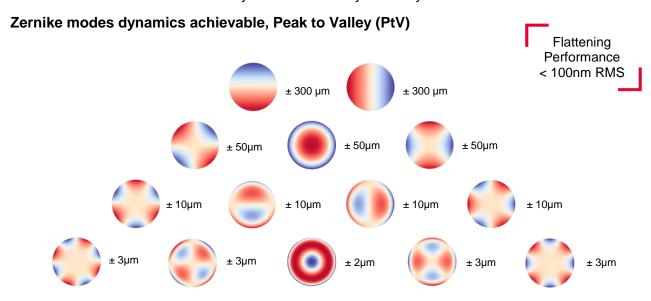
\*µAME-ST: Micro Strength Actuator patented by ISP System Micro Strength Actuator driven by stepper motors, patented by ISP System(1)

(1)ISP SYSTEM'S patents: EP1925959 A1 and FR2981139 A1

## **Adaptive optics loop**

MD-AME deformable mirror can be interfaced with any wave-front sensor technology (Shack Hartmann, Lateral Shearing Interferometry). ISP SYSTEM advices and supports the customers on the integration of deformable mirror in adaptive optics loop system.

ISP SYSTEM proposes dedicated and adapted solutions for intense laser facilities. These solutions have shown their efficiency and their stability on many laser facilities worldwide.



Typical PtV amplitudes for a Ø80mm circular aperture with 35 actuators.

## **Custom solutions**

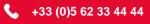


Thanks to its experience and skills, ISP System offers services to design custom solutions in order to fit your needs.

The main customable features are:

- Actuators quantity
- Zernike modes dynamics and achievable order
- Aperture size and angle of incidence
- Control strategy
- **Environment compatibility**
- Software environment
- Optical surface coating (wavelength, damage threshold, reflectivity...)







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Capital de 1 000 000 € - SIRET : 410 675 078 00027 - APE : 71128 - TVA : FR 19 410 675 078