



**DEFORMABLE MIRRORS
WAVEFRONT CONTROL FOR ANY TYPE OF LASER**
Perfect wavefront control for any optical system

High power lasers, microscopy, medical instruments and telescopes can improve their performances by the integration of deformable mirrors for the wavefront control.

BIMORPH
The ideal solution for optical instruments and for high power lasers.



Dynamic Optics piezoelectric bimorph deformable mirrors are the ideal components for the correction of optical aberrations for many applications: high power lasers, ophthalmic imaging, microscopy and optical communications. Our deformable mirrors can use the same coatings of your laser system either metallic or dielectric. We can support high reflectivity, high damage threshold, large bandwidth and low GDD. Our technology is the perfect trade off between cost and performances.

IDEAL FOR

- ⊕ Fast correction of aberrations
- ⊕ Correcting aberrations in full power mode
- ⊕ Laser beam shaping
- ⊕ Wavefront precompensation
- ⊕ Telescopes
- ⊕ Free space optical communication system
- ⊕ High harmonic generation and particle acceleration

KEY SPECS

- ⊕ Large size: up to 200mm
- ⊕ Optical quality enabling Strehl Ratio > 0,9
- ⊕ Close-loop control up to 1kHz
- ⊕ Easy substrate replacement
- ⊕ Any size, shape and angle of incidence

[SPECS TABLE](#) [DATA SHEETS](#)

DESCRIPTION	DATA
Clear aperture size	10mm to 500mm
Reflectivity options	Up to 99.99% Low GDD
	Large bandwidth Dual wavelength
	High damage threshold
	Any angle of incidence
Max average power	Up to 1kW without cooling
Actuators	Up to 128
DM Size with embedded electronic	92mm diameter (up to 50mm DM clear aperture)
DM Size with external electronic	75mm (compatible with 3" mirror mount)
Communication	External electronic USB Embedded electronic Ethernet
Integrated tip	Tilt stage

PSF Shaping Video

Deformable mirror with integrated fast tip/tilt stage



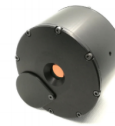
Round dielectric coated deformable mirror



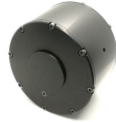
Round dielectric coated deformable mirror



Square dielectric coated deformable mirror



Dielectric coated deformable mirror with Embedded electronic



Dielectric coated deformable mirror with Embedded electronic



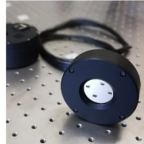
Dielectric coated deformable mirror with Embedded electronic



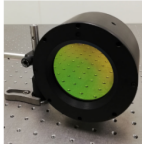
Linear Deformable Mirror for pulse compression



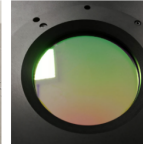
Linear Deformable Mirror for pulse compression



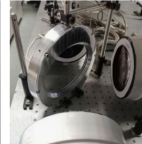
Round metallic coated deformable mirror



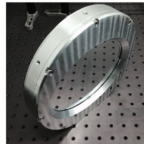
Large size dielectric coated deformable mirror with Embedded electronic



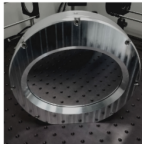
Large size dielectric coated deformable mirror with Embedded electronic



Large aperture deformable mirrors. Example of 100mm DM at 45deg AOI for femtosecond laser



Large aperture deformable mirrors. Example of 100mm DM at 45deg AOI for femtosecond laser



Large aperture deformable mirrors. Example of 100mm DM at 45deg AOI for femtosecond laser