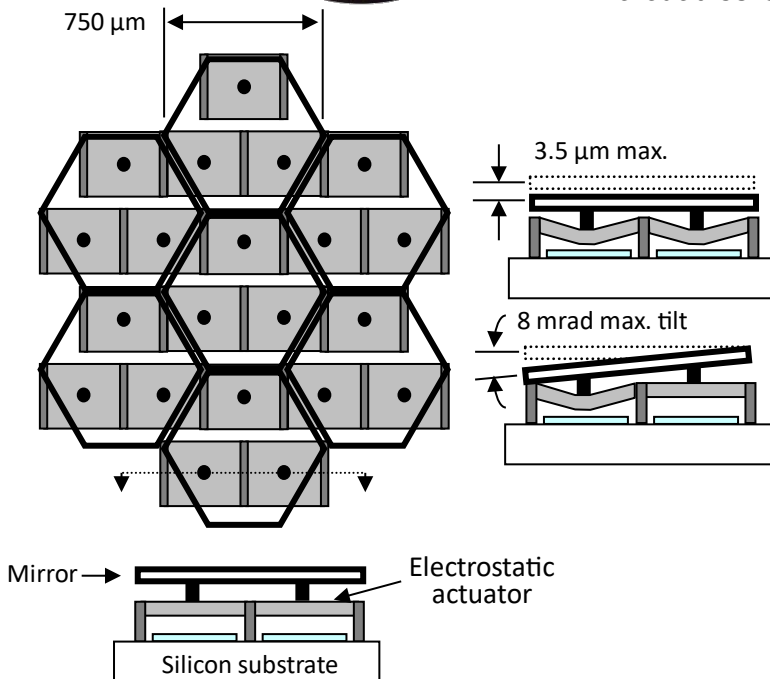


HEX CLASS DEFORMABLE MIRRORS



Boston Micromachines Hex Class Deformable Mirrors offer an alternative to continuous devices.

Well-suited for an array of applications from *in vivo* microscopy to high-resolution astronomy, the Hex Class mirror architecture has the ability to tip, tilt and piston multiple segments for alternative wavefront control. And with full open-loop calibration included with each system, the ability to accurately control the wavefront without a sensor is well within reach.



DM Architecture Specifications

- Segmented Surface
 - 3 actuators per segment
 - Coating: Gold or Protected Silver
 - Zero hysteresis
 - Fill Factor: >98%
 - Sub-nm average step size
 - Surface Finish: <40 nm RMS
 - Pitch: 375 μm
 - Segment Size: 750 μm
 - Maximum Tilt angle: ±8 mrad
 - Mechanical response: <40μs
 - Approx. inter-actuator coupling: 13%
- Full electro-mechanical calibration available**

Available Systems

DM Model*	Actuators	Segments	Stroke (μm)	Circular Aperture (mm)	Interface	Frame Rate (Latency)
Hex-111	111	37	3.5	3.8	USB	2kHz (125μs)
Hex-111-X	111	37		3.8	CameraLink via PCIe	100kHz (2μs)
Hex-507	507	169		8.3	SFP Fiber via PCIe	45kHz (22μs)
Hex-1011	1011	337		11.6	SFP Fiber via PCIe	45kHz (22μs)
Hex-3K	3066	1022		21.2	SFP Fiber via PCIe	45kHz (22μs)

*High speed driver options available.