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OIM102.3 Elliptical Fast Steering Mirror

FEATURES:

- Flexure suspension allows stiction free motion of the mirror with an infinite fatigue lifetime
- Built in optical sensor allows the user to monitor both axes of mirror motion
- Moving magnet design allows coils to be heat sunk to the mirror base structure
- New coil design eliminates coil overheating problems, no need to monitor coil temperature
- Removable optical table mounting foot allows easy mounting to standard optical tables
- Mirror coating to customer requirements
- Wave-front quality 1/4th wave rms
 - \circ Substrate 1/4th wave p-v
- Useable aperture 1.8" x 2.7"

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Specification	Typical	Units
Dynamic Performance		
Mirror Angular Range (mechanical)	+/- 1.5	degrees
Angular resolution	<2	urads
3dB Bandwidth (small angle 10mV)	> 500	Hz
Linearity	1%	% Full Scale
Step Response (1 mrad step)	<10	ms
Mirror Substrate		
Material	Fused silica	
Mirror substrate size	2.1" x 3.0"	
Coating	Protected Gold	
Reflectivity	>95% from 700nm –	
	10um	
Wavefront quality	λ/4 @ 633nm	waves rms
Clear Aperture	1.8" x 2.7"	inches
Electrical		
Peak power	30	Watts
Mechanical		
Mirror head size	2.3 X 2.3 X 2.2	inches
Controller size	2.0 X 4.0 X 6.1	inches

OIM102.3 Mirror Specifications

Pricing

Complete mirror system (mirror head, controller, cables, and power supply)		
Includes: Fast Steering Mirror Head Protected gold mirror substrate* Analog Servo Controller 6 foot cable FSM to Controller Table top power supply	OIM102.3	\$5100

* Contact Optics In Motion to obtain a price for other mirror coatings.