Compact Bi-Directional Absolute Positioning Mirror Mount

CONEX-AG-M100D



The CONEX-AG-M100D is a piezo motor actuated absolute positioning mirror mount with a dedicated closed-loop controller/driver. For out-of-the box control, the CONEX-AGAP controller is preconfigured and delivered with an Agilis AG-M100D mirror mount with a built-in, 2-axis, absolute, angular position sensor.

High Angular Stability

At the desired position, the angular stability of the AG-M100D absolute position mirror mount is the same as an ULTIMA mirror mount. Its thermal stability is in the range of 5 μ radians/°C.

Closed Loop Absolute Position Adjustment Capability

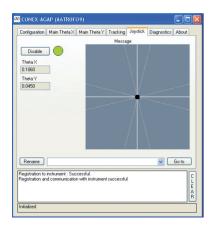
This mirror mount features an innovative miniature absolute position sensor. Within a footprint similar to the 1inch mirror mount of the Agilis family, it offers an angular positioning capability of 0.001°, even after a system reset. This position recovery capability is a key feature of this the CONEX-AGAP and the combination of the closed-loop algorithm with the absolute position sensor, it provides bi-directional repeatability of 0.01°.

Fine Adjustment Performance

Like its controller, the mirror mount is very compact, but is capable of $\pm 0.75^{\circ}$ travel on both axes with an angular opened loop adjustment sensitivity better than 2 µrad. For closed loop positioning, the MIM is 0.001°.



- · Very compact size
- Repeatable positioning
- Recoverable position
- Set-and-forget long-term stability



GUI for 2-axis positioning.

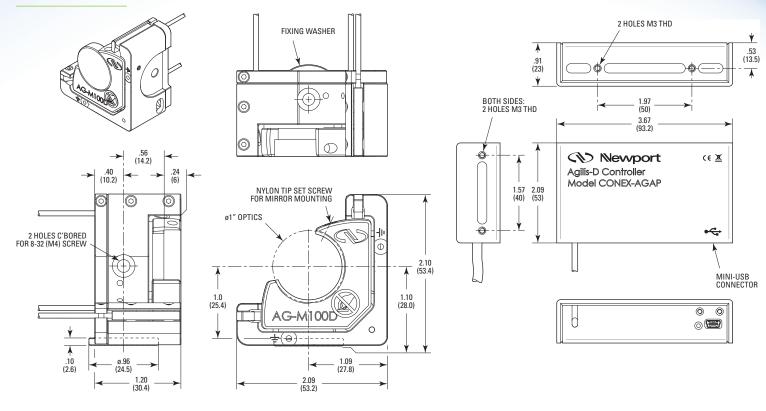
SPECIFICATIONS

Dual axis travel range	±0.75°	
Closed-loop MIM	0.001°	
Open-loop MIM	2 μrad	
Bi-directional repeatability	0.01°	
Maximum speed	>0.4 °/s	
Thermal stability	5 μrad/°C	



POSITIONING MIRROR MOUNT

DIMENSIONS

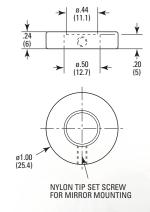


ORDERING INFORMATION

Model	Description
CONEX-AG-M100D	Piezo Motor Mirror Mount, Absolute Positioning, Integrated
	Controller

ACCESSORIES

Model	Description
UPA15	Mirror Mount Adapter, 25.4 mm to 12.7 mm Diameter, For Ultima







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