

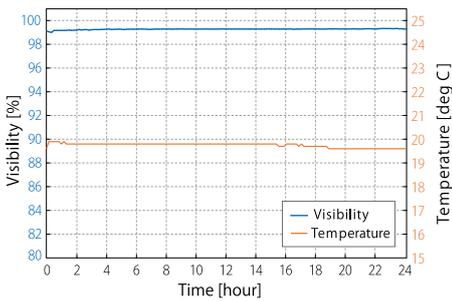


AOM mount with tilt adjustment and rotation adjustment

# AOM\_508



Mounting example for Crystal Technology's AOM



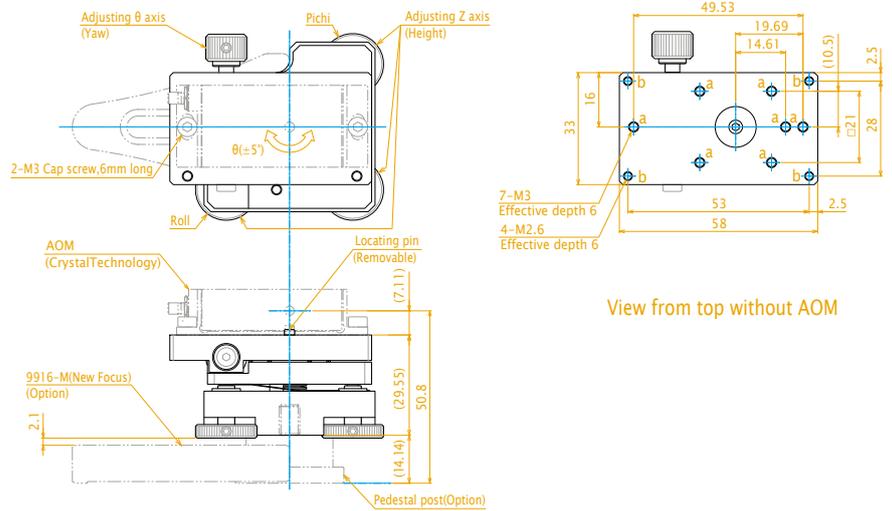
## Stability data

The reference data is only attached to prototype AOM\_508, not for every product. (We do not attach data for each products as we do for MM1000S and BSM1000S)

AOM\_508 is a specialized mount for AOM which has adjusting mechanism of both tilt and rotation in the horizontal plane. To simplify your beam alignment procedure, the rotation axis is designed to match the center of the AOM crystal. Ultrafine tuning is possible due to adopting of the 0.15 mm pitch screw, which has the same design scheme as MH100IH\_254 mirror mount. Outstanding rigidity of the horizontal rotation is achieved by pre-pressured ball bearing. You can also use AOM\_508 to mount a high performance cube beam splitter, prism and so on. Typical evaluation data show ultrastable visibility, is shown in the lower left.

## AOM\_508

AOM mount with tilt adjustment and rotation adjustment



|                  |   |
|------------------|---|
| Material         | Extra Super Duralumin (ESD)   |
| Surface Finish   | Anodized (color: gray, sandblasted)   |
| Mounting Method  | M6 TAP (effective depth 9)  |
| Adjustment Screw | 0.15 mm pitch screw (170TPI)  |
| Adjustment Range | $\theta$ -axis: $\pm 5^\circ$ , Z stroke: $\pm 1.8$ mm (Pitch/Roll: $\pm 1.8^\circ$ )   |
| Resolution       | (The displacement when rotated $1^\circ$ )  |
| $\theta$ -axis   | 0.00128° (22.6 $\mu$ rad)   |
| Z-axis           | 0.0006452° (11.3 $\mu$ rad)   |
| Z-stroke         | 0.000417 mm   |
| Remarks          | <ul style="list-style-type: none"> <li>• Equipped with Soft-lock Mechanism. (Patent application No. 2005-312867)</li> <li>• Contact us about attachments for other optics.</li> </ul> |



AOM mount with rotation adjustment

# AOM\_theta

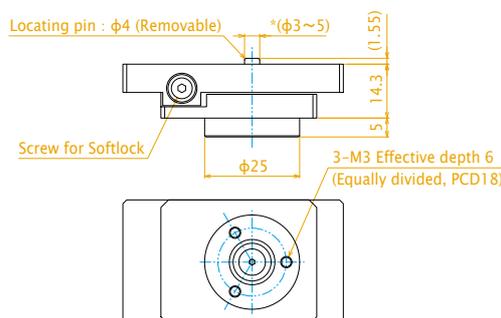


Installation example on our mirror mount, MH100IH\_254

AOM\_theta offers the function of horizontal rotation only for AOM mounting. To simplify your beam alignment procedure, the rotation axis is designed to match the center of the AOM crystal. The mechanical design is based on AOM\_508.

## AOM\_theta

AOM mount with and rotation adjustment



An example of mounting with heatsink keeping optical axis in 2" high