

1" Mirror Mount

MM1000



Material

Extra Super Duralumin (ESD)

Surface Finish

Anodized (color: FMD blue,

sandblasted)

Thickness

37.5 mm

Weight

Approx. 70 g (except the optics)

Optics

φ1", thickness: 5 to 9.5 mm

Transmitted

φ11.6 mm(Straight), φ8.4 (45°)

Light

M6 TAP

Mounting Method

(Effective depth 10 mm)

Adjustment Screw

0.15 mm pitch screws

(170TPI)

Adjustment Angle

 $\pm 3^{\circ}$

Angular Resolution

0.00125° (22 µrad) when rotated 1°, 0.45° by one revolution

Remarks

· Mirror symmetry model is available.

- · M-Ring is equipped. (Patent No. 4963071, JP)
- · Soft-lock mechanism is employed. (Pat. application No. 2005-352867, JP)
- · Evaluation data measured by laser interferometer is attached to each product.
- · Ultra-fine adjustment with almost no backlash can be made by using the φ12 knobs attached to both tilting and rotating directions and the specially designed FMD tool SCR-ADJ.



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FMD provides an ultrastable mirror mount equipped with M-Ring mechanism which was developed by Prof. Furusawa at the University of Tokyo and Prof. Masada at Tamagawa University. The photo below shows Mach-Zehnder interferometer which consists of 32 pcs of MM1000S and its optical path ends up 3200 mm long. Visibility of the interferometer is stable for a long time as whown in a test data.

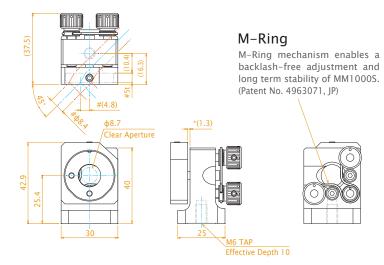


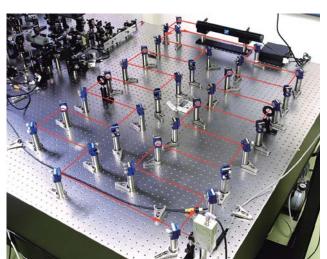
FMD Noguchi

Prof. Furusawa is a world-renowned researcher in the quantum computation field, and the first person to succeed in the experiment of the "Unconditional Quantum Teleportation" in 1998.

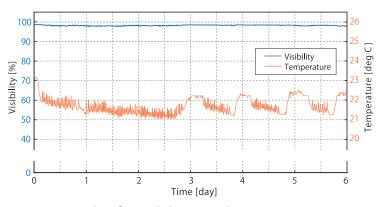
MM1000S_R_M

Right-handed version of 1" mirror mount





A set up of a Mach-Zehnder interferometer consists of 32pcs of MM1000S. (at Prof. Furusawa's lab)



An example of a stability test data.