

Frameless Mirror Unit – now also with Fused Silica substrates

More space for you, no stress for the optics and with integrated precision holder and adjustment - can also be used at grazing incidence!

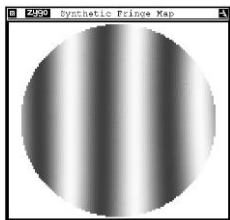
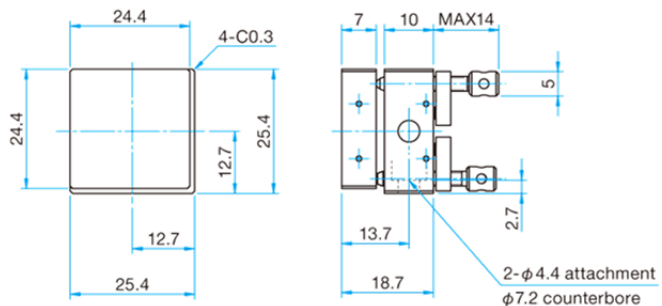
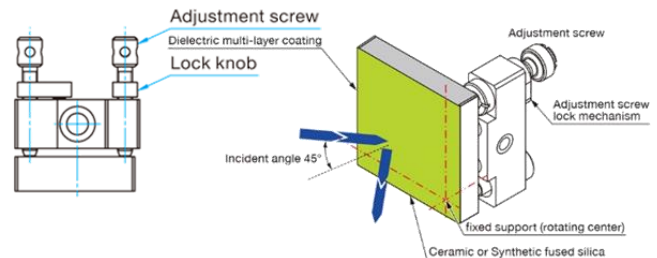
The major source of problems with traditional optical mirror mounts comes from the metallic frame: mechanical and thermal instability, stress, limited clear apertures, etc. ... We decided to design and realise a "frameless system", where the optics are fully integrated with the structure, getting rid of all the issues above at once.

No stress and full use of the optical surface!

Instead of a frame, the frameless mirror unit is done by depositing a multilayer coating directly onto the substrate that constitutes the main body of the holder. Like a more traditional unit, of course, the frameless mirror unit is also adjustable through the use of two screws mounted on the back of the unit.

The first release of the product was based on substrates made of ceramic, which has great thermal performance. Now we introduce also a Fused Silica version, which allows a more affordable price while keeping the other advantages.

*Material Fused Silica - size 24.4 x 24.4mm
3 adjustable axes with $\pm 3^\circ$ range and
0.74°/rotation
Surface accuracy after coating $\lambda/4$ guaranteed
Clear aperture coating area > 23 x 23 mm
AOI $45 \pm 3^\circ$
LDT 28 J/cm²@1064nm*



Frameless mirror measured with Zygo interferometer

Product number:
GMMUHPQ-24.4-4-xxx for xxx nm laser wavelength