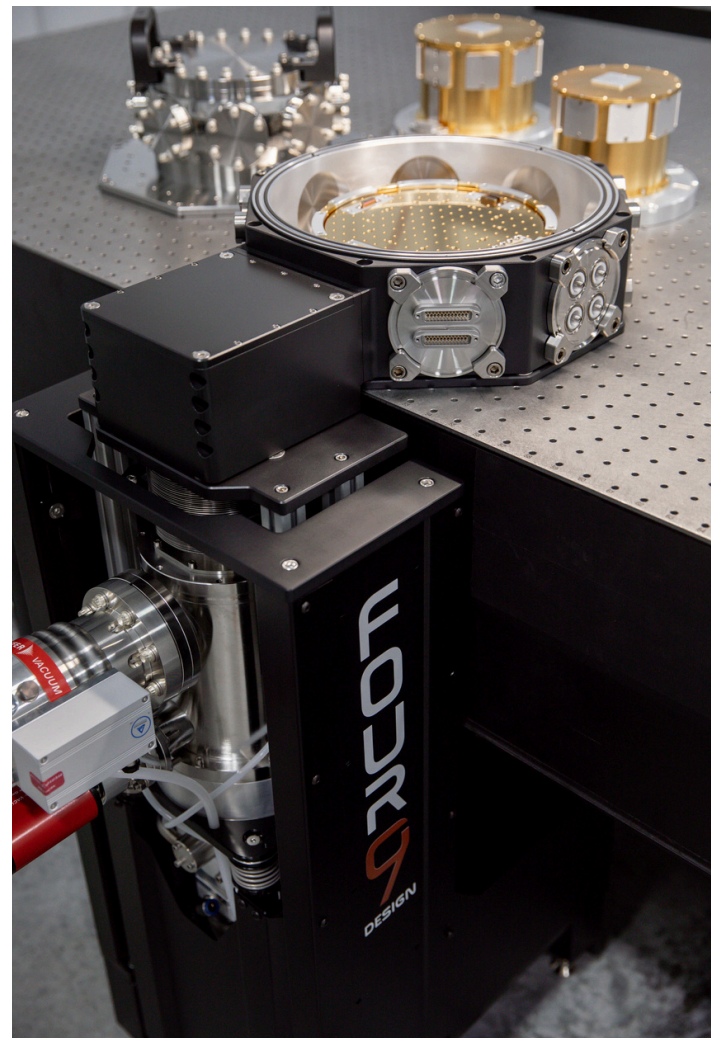


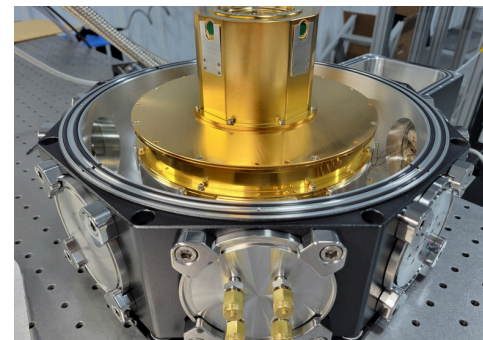
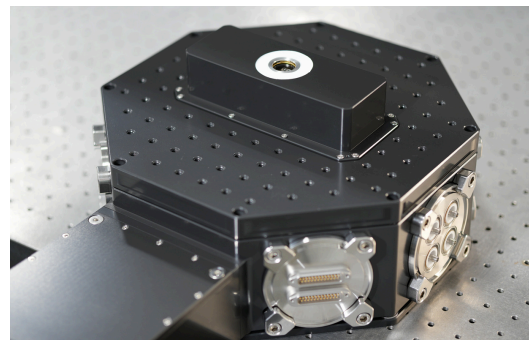
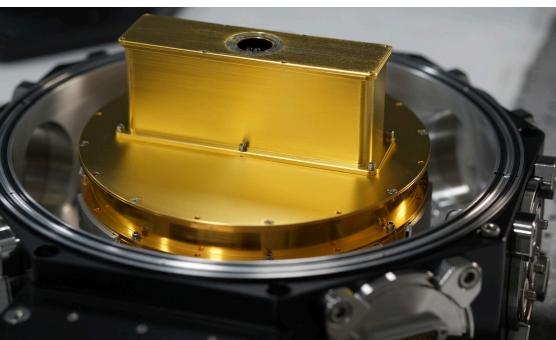
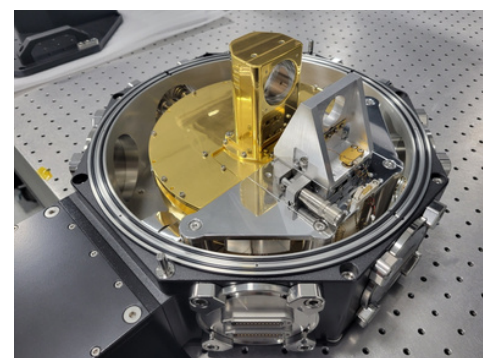
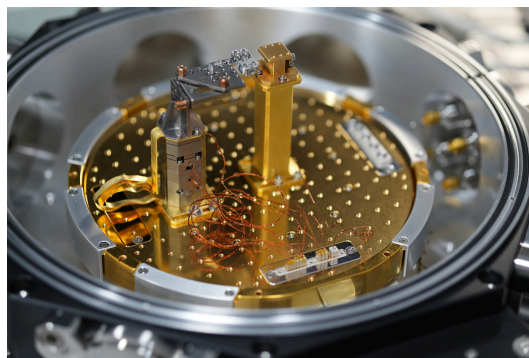
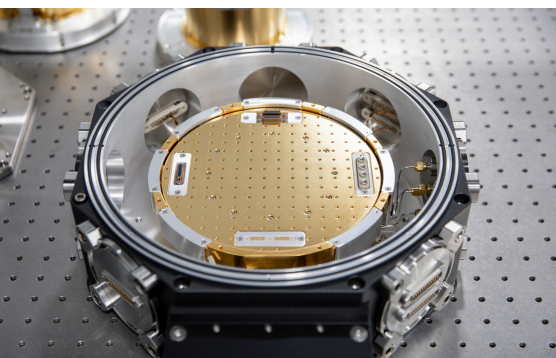
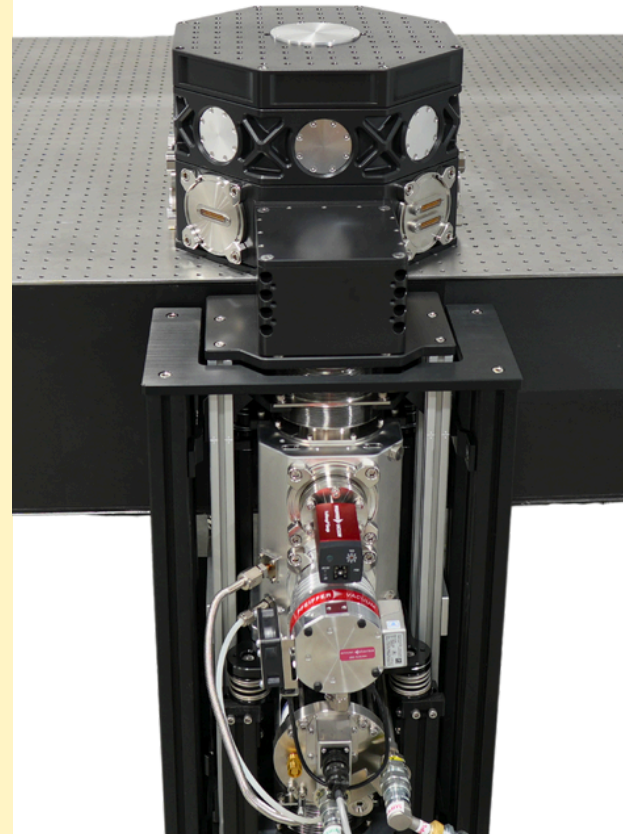
UHV Low Vibration Optical Cryostat

The SideKick is an ultra-high vacuum, ultra-low vibration, high cooling power, sub 4K cryostat that removes the cryocooler clutter from your table and provides access to your experiment from all sides. The cryogenic workspace is mounted to your existing table like other optical elements. It connects with a highly flexible bellows column to the cryo-cooler and mechanical pumps, which are referenced off the lab floor to separate pump vibrations from your sample and optics. The sample space environment only uses low outgassing materials, you can expect $< 1\text{E}-8$ torr after cooldown and $1\text{E}-11$ torr inside cryo shields.



SideKick Features

- Incredibly powerful, 250mW @ 4.2K of cooling power
- Differentially pumped vacuum seals for ultra-high vacuum performance.
- Only UHV rated low outgassing materials used in cryostat construction.
- Large cold platform - Ø200mm X 100mm standard cold space, larger available.
- Plenty of optical access via windows or fibers. 9 windows available, 8 horizontal, 1 vertical. Easy access to chamber.
- 24DC connections available to user included, integrated and heat sunk at 4K cold plate.
- Six industry standard ISO63 panels may be used for interfacing additional RF, DC, fiber optics, or gas tubes.
- Integrated turbo pump, roughing pump, and full-scale pressure gauge.
- Floor mounted vibration isolation pillar at optical table edge. Accommodates table thicknesses of 12-40"



*Pictures show system with additional options