

The SideKick Low-Pro is a low profile, low vibration, sub 4K optical cryostat with excellent vacuum performance designed for microscopy and ion-trapping applications. Like the related SideKick system, it mounts directly to your optical table, yet separates pump mechanical vibrations by referencing them off the lab floor. The sample environment uses only low outgassing materials to allow UHV operation.

The cold plate is only 1.24" off the optical table, and the overall height is as low as 1.88"

SideKick Low-Pro Specifications

- Base Temperature ~3.1K depending on interface options
- Cooling power 150mW at 5K
- Vibrations <10nm
- Table float ~0.25" (6mm) typical
- Cooldown time ~ 3 hours to 4K
- Cold platform 31 mm diameter in 75mm diameter radiation shield
- Optical access via top or side windows with working distance as low as 1.0mm
- 24 DC user connections standard; heat sunk to 4K cold plate
- Two additional industry standard ISO63 user panels may be used for DC, RF, or fiber optics
- Integrated temperature sensors and heaters for 1st stage, 2nd stage, cold plate and sample
- Integrated turbo pump, roughing pump, and full scale pressure gauge
- Floor mounted vibration isolation pillars at optical table edge edge. Accommodates table thicknesses of 12-18"

