

# HPD Kilimanjaro 122

## Cryogenic Probe Station

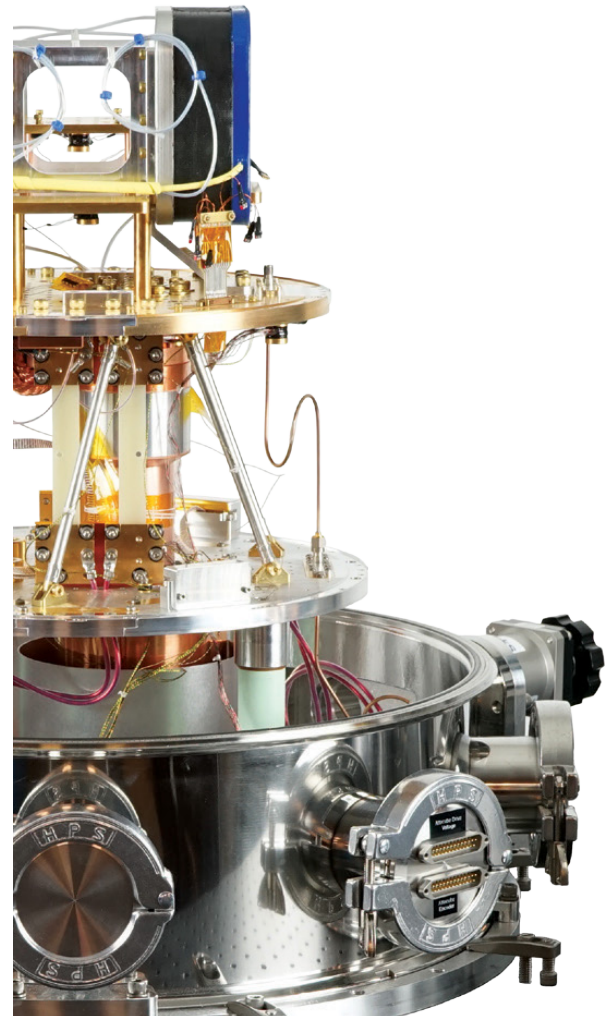
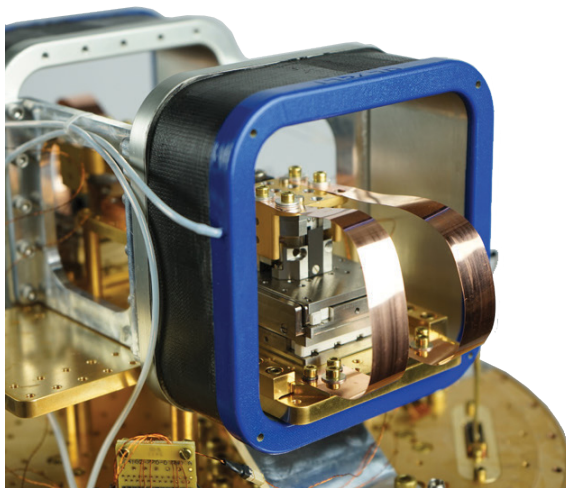
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### ➤ Overview

The Kilimanjaro 122 Cryogenic Probe Station offers the user a cryogenically robust platform for low-temperature device probing. Unlike systems whose actuators are placed at 300 K, our probe station uses positioning stages that are thermally anchored at 4 K. In this way, you know that your sample won't be at an elevated temperature due to heat leak down the manipulator arms. The Kilimanjaro 122 Probe Station can be configured to host either individual chips or small wafers.

Other options include window shutters, magnetic shielding and sample magnets.

What suits your research needs?

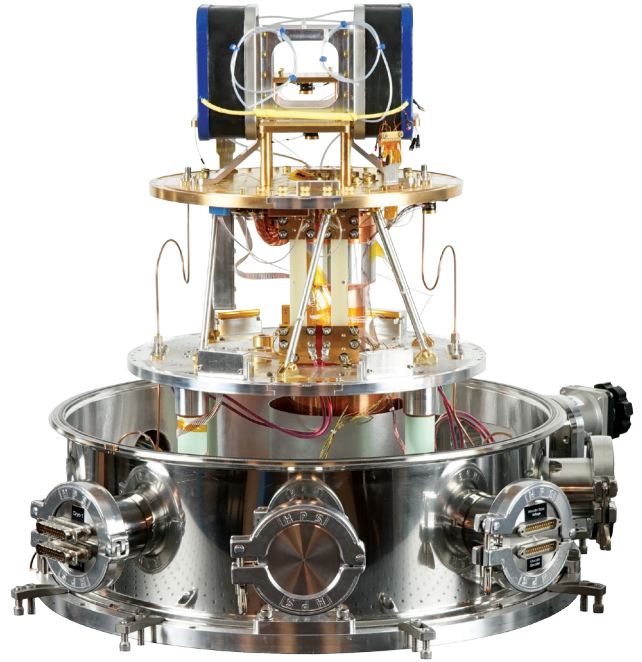


## Features

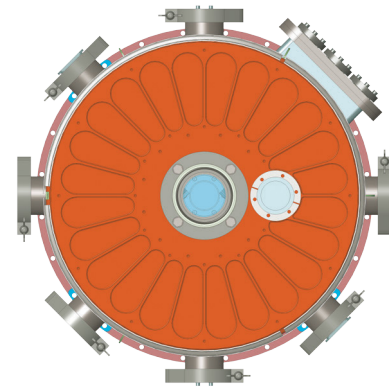
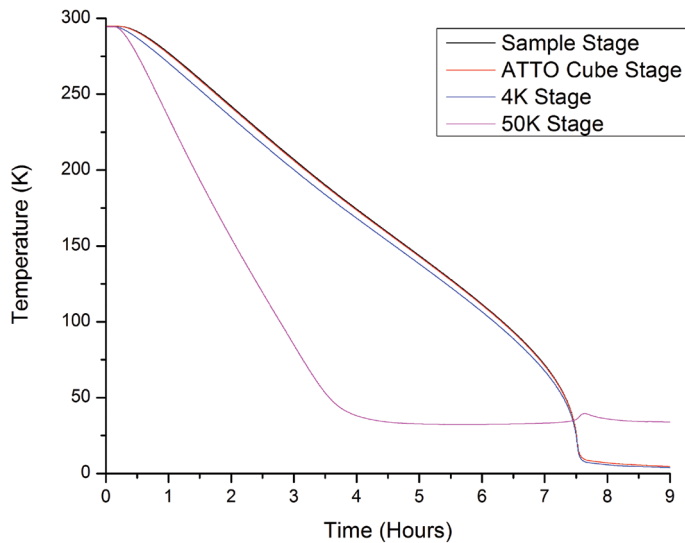
- 4 K cooling platform for device testing
- Optional variations and configurations:
  - Different wiring configurations, probe cards, larger chip capacity
  - Integrated pumping system with gate valve and pressure gauge

## Specifications

- 25 cm dia. by 16 cm tall 4 K experimental space
- Cryocooler size 1.5 W Sumitomo G-M with the He-4 pot for <50 mK stability
- Capacity for wires and/or cables set up for 4 high-speed (2.92 or SMA) per quadrant (16 total), plus 25 extra DC lines
- Optical access, 50 mm dia. visible bandpass filters at 4 K and 50 K with optional shutters; ISO 63 flange window at 300 K with 60 mm clear access
- System will scan a 20 mm chip
- Attocube positioners with 5 mm travel in Z, 20 mm in X & Y
- 50 K and 4 K radiation shields



### Kilimanjaro 122 Probe Station Typical Cooldown



Top view of Kilimanjaro 122 Cryogenic Probe Station showing shuttered view port and feed-through flanges.

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HPD KILIMANJARO 122-DS-0121

**Corporate Headquarters**  
7005 Southfront Road  
Livermore, CA 94551  
Phone: 925-290-4000  
[www.formfactor.com](http://www.formfactor.com)