



# Advanced Research Systems

## *$\mu$ Drift* Cryostat

### Keeping the Focus on Your Research

The ARS  $\mu$ Drift Cryostat is purpose built to remove key barriers to long-term optical and variable temperature experiments. Combining the company's experience in robust cryogenics with convenient optical access and new low drift designs assures success when studying nanometer scale samples and other structures.

### Stable Sample Mounting

- Support structure designed for exceptionally low Sample Drift: 300nm Base-50K, 54 $\mu$ m Base—300K
- Ultra low vibrations, <5nm available
- 3mK Temperature Stability

### Superior Optical Access

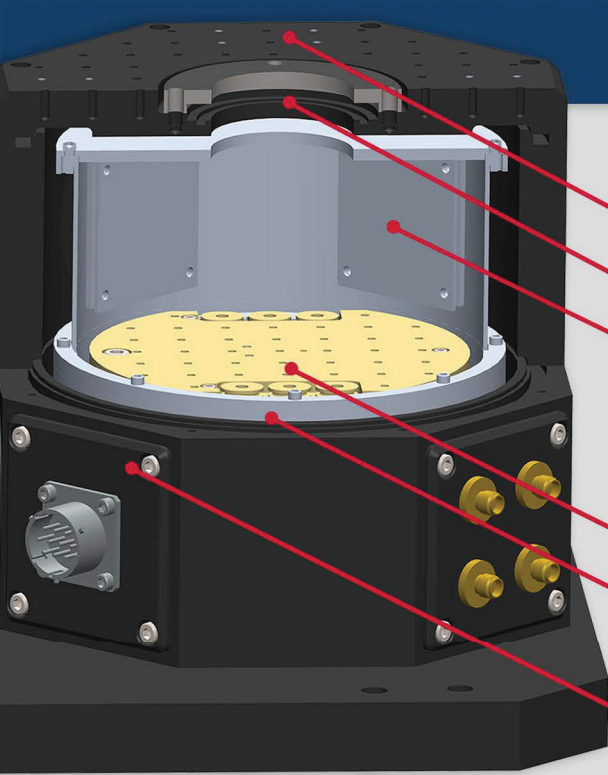
- Compatible with High NA & In-Vacuum Objectives
- Reconfigurable for X-plane & Confocal Imaging in Reflection & Transmission modes
- 5 Removable vacuum windows, large clear view
- Custom materials & Anti-Reflective coatings available

### Flexible Sample Workspace

- 4" Gold Plated Sample Plate with standard threaded breadboard pattern
- 6 Bobbin thermal anchoring points for lagging wires
- 24 Push-Pin Sockets for wiring and instrumentation



# Cryostat for Quantum Materials: Key Features



## Modular Optical Block:

Tapped top plate

Low-working distance window (<2mm available)

Large aperture cold and vacuum windows

Optional Modular X-Plane and Transmission configurations

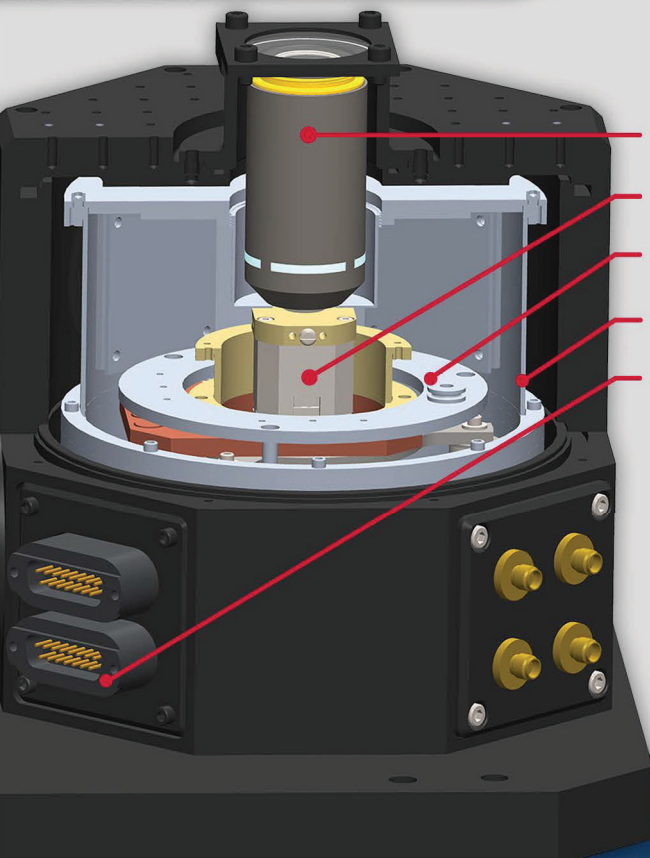
## μDrift Base:

4" base temperature sample plate

Easy access radiation shield

Ultra-Stable Sample Support

User defined wiring (fiber optics available)



## Ultra-low Working Distance Option:

In-Vacuum Objective

Nano-Positioners for easy sample coverage

Bobbin Mounting for instrumentation pre-cooling

Radiation shield with modular objective shielding

Custom feedthroughs for fine motor control

## Additional Options Available:

Stainless Steel True UHV  $10^{-11}$  Construction

850K Interface Modification

Large Bore, High Field Strength SCM's up to 9T

High Cooling Power Exchange Gas Interfaces



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