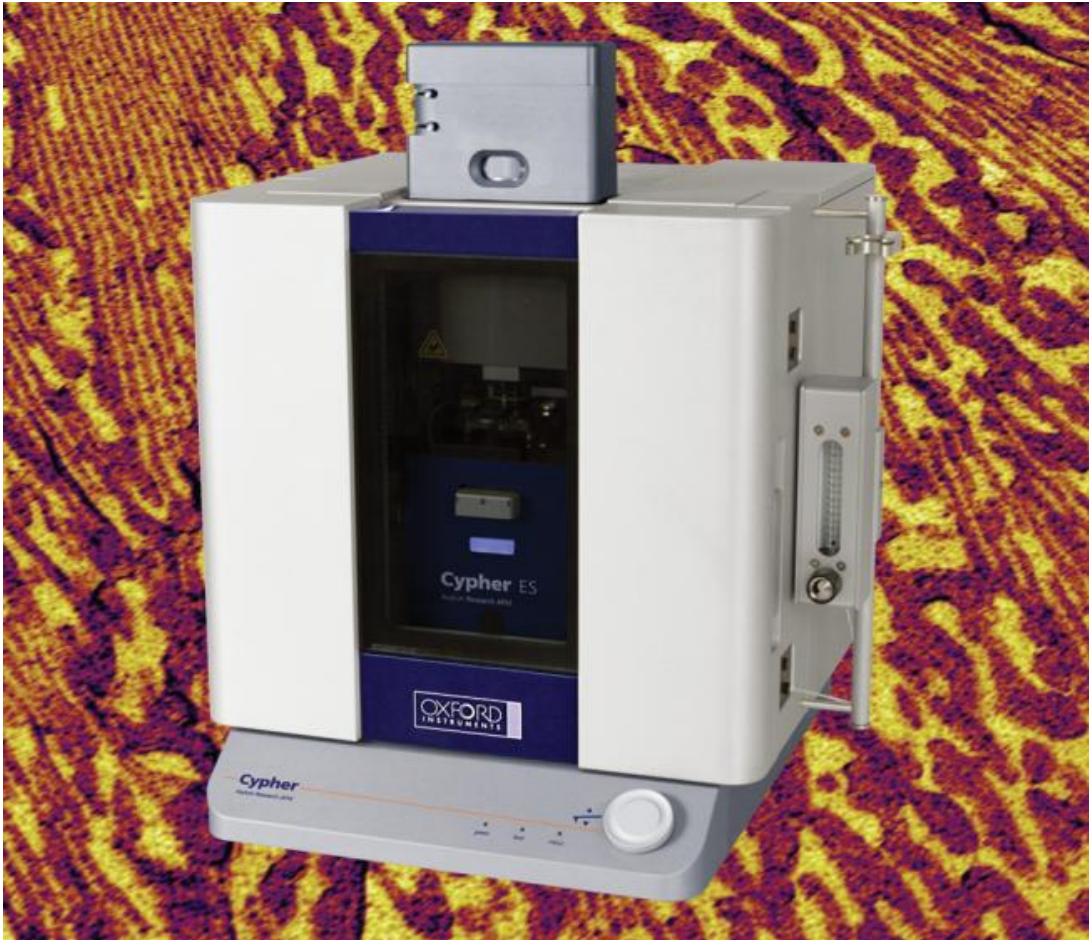


Cypher ES Polymer Edition AFM

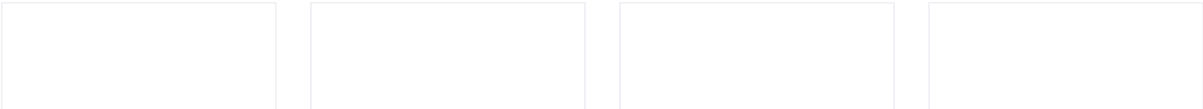


The Cypher ES Polymer Edition is a special configuration of the Cypher ES AFM tailored to excel in polymer science research. It shares the same extraordinary performance and versatility as the Cypher ES, but comes standard with blueDrive photothermal excitation, three powerful techniques from our NanoMechPro toolbox for nanomechanical characterization, and the high-temperature polymer heater.

- Routinely achieve higher resolution than other AFMs
- Fast scanning with results in seconds instead of minutes
- Every step of operation is simpler for remarkable productivity
- Small footprint in the lab, huge potential to grow in capability
- Support that goes above and beyond your expectations
- Enables gas and liquid perfusion through a sealed cell
- Includes temperature control of the sample from ambient to 250°C
- Broadest compatibility with harsh chemicals

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Features and Benefits

Operating Modes

What's the Polymer Edition?

Accessories

Software

Support

Routinely achieve higher resolution than other AFMs

- Unmatched mechanical stability—noise floor *half* that of any other AFM
- Exceptionally low drift—higher resolution and straight lattice lines
- Low noise electronics—no artifacts from electronic noise sources

Fast scanning with results in seconds instead of minutes

- Scans 10-100× faster than typical AFMs
- Supports the fastest, smallest probes (3×9 μm spot size—optional)
- Fast scanning that goes beyond topography—also nanomechanics, CAFM, PFM

Every step of operation is simpler for remarkable productivity

- **ModeMaster™** automatically configures software for selected mode
- **SpotOn™** makes the fully motorized laser and detector alignment one-click
- **GetReal™** automatically calibrates the cantilever spring constant and sensitivity
- **GetStarted™** automatically sets optimal parameters for tapping mode imaging
- **blueDrive™** makes tapping mode simpler, more stable, and more quantitative

Small footprint in the lab, huge potential to grow in capability

- Full suite of nanomechanical characterization modes available for measuring viscoelastic properties (storage/elastic modulus and loss modulus)
- Unmatched range of nanoelectrical and electromechanical characterization modes
- Upgradeable to the Cypher VRS for video-rate imaging
- Many standard operating modes and even more optional modes

Support that goes above and beyond your expectations

- Includes a standard one-year comprehensive warranty
- No-charge technical support and basic applications support for life
- Affordable support agreements that offer extended warranties and advanced training
- Easy upgrade path to the Cypher VRS (<https://afm.oxinst.com/products/cypher-vrs-high-speed-video-rate-afm>)

Enables gas and liquid perfusion through a sealed cell

- Fully sealed sample cells maintain a controlled environment and eliminate the risk of leaks
- Compatible with fast scanning and all environmental control accessories

Includes sample temperature control from ambient to 250°C

- Optional Heater-Cooler extends the sample temperature range to 0–120°C
- Low-drift design lets you keep imaging while ramping the temperature
- Quick and easy to setup and use, no external controllers, tubing, wires, etc.

Broadest compatibility with harsh chemicals

- Sample cells are constructed so that only fused silica and the probe clip (PEEK or stainless steel) are in contact with liquid
- Optional glovebox configuration allows use with oxygen or water sensitive materials



<p>(https://afm.oxinst.com/products/cypher-es-environmental-afm)</p> <p>Cypher ES Environmental AFM</p>	<p>(https://afm.oxinst.com/products/cypher-s-afm-microscope)</p> <p>Cypher S AFM Microscope</p>	<p>(https://afm.oxinst.com/products/cypher-vrs-high-speed-video-rate-afm)</p> <p>Cypher VRS: High Speed Video-Rate AFM</p>
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(/applications/measurement-of-chemical-and-molecular-composition)

EV Technologies (/applications/ev-technologies)

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