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Cypher S AFM Microscope



The Asylum Research **Cypher S** is the base model of the Cypher AFM microscope family. The Cypher S was the first commercially available fast-scanning AFM, and the Cypher family AFMs remain the only full-featured fast-scanning AFMs that are compatible with a complete range of modes and accessories. Cypher AFMs have also earned a reputation for easily achieving higher resolution than other AFMs. The Cypher S is a great AFM for both materials science and life science research for ambient measurements in both air and liquids. The Cypher S is fully upgradable later for environmental control options or even video-rate scanning.

- Routinely achieve higher resolution than other AFM microscopes
- 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

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Features and Benefits	Operating Modes	Accessories	Software	Support

Routinely achieve higher resolution than other AFM microscopes

- 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 ES for environmental control accessories and to 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 ES (<https://afm.oxinst.com/products/cypher-afm-systems/cypher-es-environmental-afm>) or Cypher VRS (<https://afm.oxinst.com/products/cypher-vrs-high-speed-video-rate-afm>)

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