



The UStretch is ideal for a wide range of mechanical testing applications. Its hinged body enables testing in the vertical and horizontal planes and facilitates submersion of the specimen in a temperature controlled media bath.

This robust system is capable of tension and compression testing at forces up to 50N. A wide variety of specimen grips and platens are available to accommodate different specimens and testing modes.



Equipped with CellScale's **user-friendly software**, the UStretch provides all the control features needed for displacement and force controlled testing.

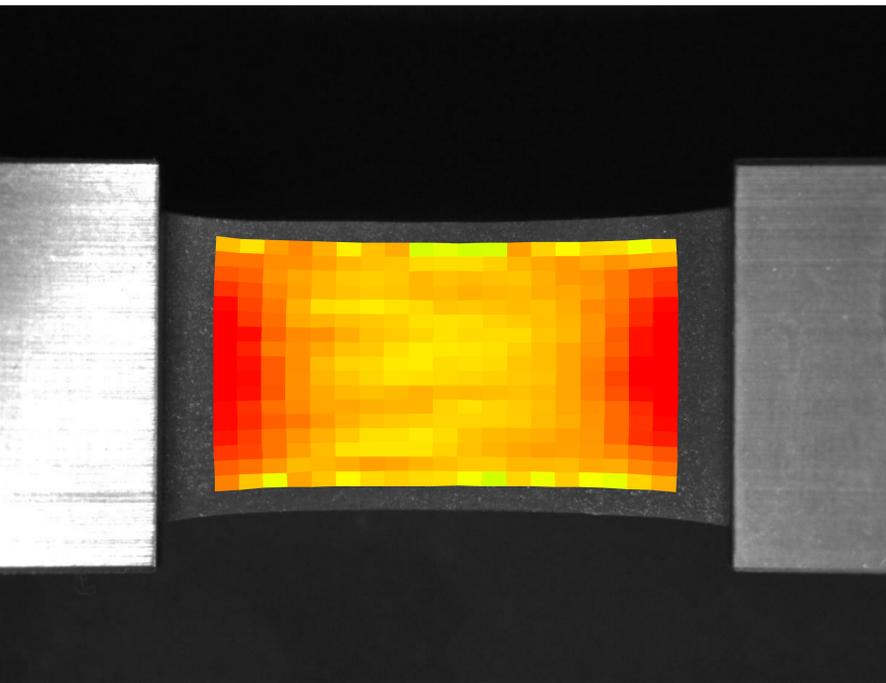
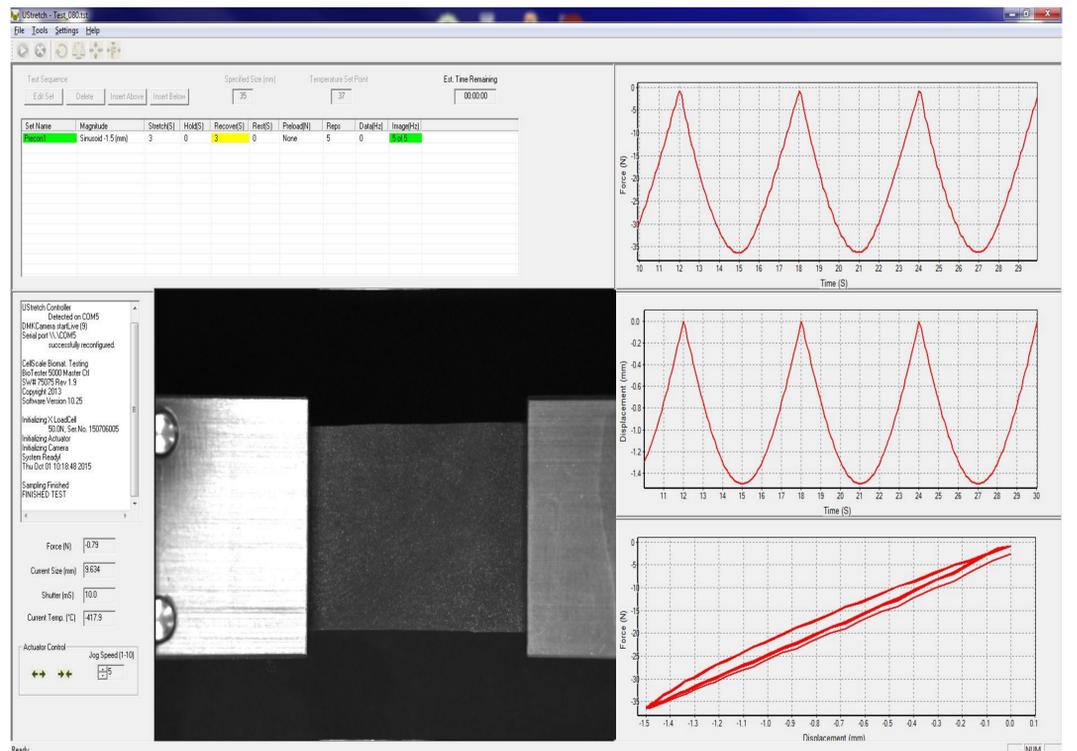
An **imaging system** and digital image correlation (DIC) software package is available for the UStretch to collect images and videos for analysis and presentation.



A variety of gripping methods are available for the UStretch. The patented BioRakes allow for fast and accurate mounting of delicate specimens as small as 3mm. Grips are useful for larger, stronger specimens.

Easy-to-use control software facilitates complete user control of the test protocol. During the test, the software provides continuous feedback to the user through real-time images and data graphing.

The Ustretch image analysis software allows users to review test images and perform digital image correlation tracking of the specimen surface to quantify local strains.



Force Capacity	50N
Available Load Cells	0.5, 1, 2.5, 4.5, 8.9, 22, 44N
Force Accuracy	0.2% of load cell capacity
Maximum Grip Separation	135mm
Maximum Velocity	50mm/s
Maximum Cycle Frequency	2Hz
Maximum Data Rate	100Hz

  
**CellScale**  
 biomaterials testing

CellScale Biomaterials Testing is the industry leader for precision biomaterial and mechanobiology test systems. Our products are being used at world-class academic and commercial organizations in over 30 countries around the globe.

Our mechanical test systems allow researchers to characterize the mechanical properties of biomaterials. Our mechanobiology technologies provide insights into the response of cells to mechanical stimulation.

CellScale's technologies are improving human health by helping researchers discover the causes of disease, improve medical treatments and devices, and advance regenerative medicine and other basic science research.

Visit our website or contact us to learn how our innovative products can help you achieve your research and development goals.