

External monitoring and controlling package for endurance testing of planar and linear objects including Flexible Displays, OLED devices, Barrier Film, Flat Cables, Flexible Printed Circuits, Wearables & automobile applications

Allows programmed control of endurance testing machines by gathering data on the object during testing.

Edge Strain Analysis during deformation using side-view camera by Shishido Lab, analysis by Tokyo Institute of Technology (TITECH)

Failure prediction by deformation profiling



CS-CAM

YUASA SYSTEM has been developing Tension-Free™ endurance testing systems since 2012. With our in-house expertise in mechanical, electrical, and software engineering, we have developed accurate testing methods for next generation devices, components, and materials. Tension-Free™ endurance testing reduces product design time by producing more consistent and reliable test data. Samples undergo the desired testing without being subjected to undesired tension introduced by the needs of the test equipment. As desired, our jigs also can operate with tension.

The CS-CAM is the combination of a new integrated dedicated camera package on a newly developed cantilever mechanism that enables a steady continuous stream of images.

Codeveloped with TITEC, we are able to capture optical data and examine it with the edge strain analysis software to provide early detection and projections of delamination of multiple layers on a test substrate

Specifications	
Size (mm)	W 1259mm x D 465mm x H 463mm (excluding Monitor)
Size (inches)	W 49.6" x D 18.3" x H 18.2" (excluding monitor)
Weight	50 kg (110.2 lbs)
PC	Intel Core™ i5-8259U 2.3 GHz Windows 10 64 bit
Memory	8GB
Camera	5 Megapixel CMOS
Lens	Low Distortion, Fixed Focus
Light	Blue, Narrow Angle

CS-CAM - Integrated CS Mechanism with Camera and Software for Edge Strain Analysis

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Camera position stabilizer > newly developed....position stabilizer mechanism



The camera follows movement of the sample. That gives a steady image of sample to evaluate mechanical deformation.

Analytics software co-developed with TITEC

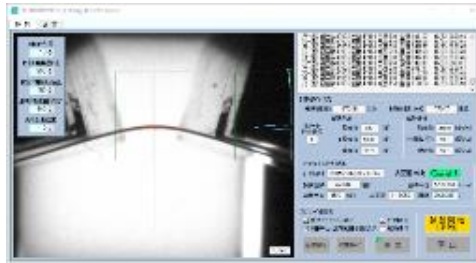


Image processing system shows precise edge strain of specimen while deformation occurs by using special optics.

