

RTSS Videoextensometer for static and dynamic material testing

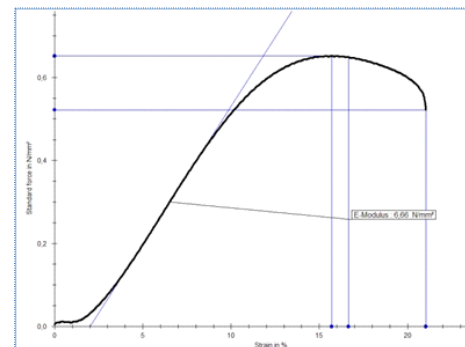
The RTSS videoextensometer is an optical extensometer to measure e.g. the elongation and width change of specimen during tensile tests. RTSS uses one or more digital cameras and is therefore a modern replacement for mechanical extensometers, laser scanning extensometers and strain gauges. It is more flexible than these techniques and can be used for a larger range of applications. The extensometer can be integrated in testing machines and measures online e.g. deformation and strain of the tested specimen.



Tensile test with RTSS

Features:

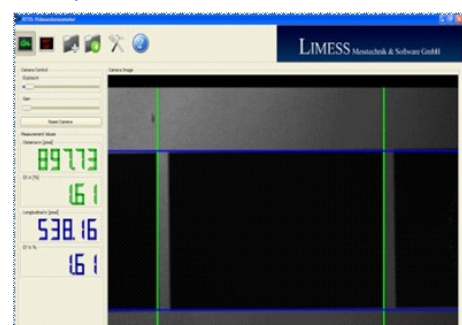
- Tensile test machines of all manufacturers are supported. The Videoextensometer can be controlled by the connected testing machine which allows the fully automatic operation
- High precision version for quasistatic tests (Precision class 0.5)
- High speed version for dynamic tests (4KHz)
- Multi camera versions for more complex applications



Measured stress-strain curve

Advantages:

- Optical measurement → No mechanical influence of the specimen
- Specimens with sizes of some mm up to some meters can be measured
- The videoextensometer can be used until specimen failure. Failure does not influence the measurement or damage the extensometer
- Large application range on nearly all materials
- Strains from 20µm/m up to more than 1000% can be measured
- Fully integrated into test machines
- Easy operation and
- Using templates for different measurement tasks
- The multithread-analysis-kernel supports multi-core-processors and achieves a small processor load
- Easy and quick install on Windows™ XP/Vista/7 (32 and 64 bit systems).



intuitive user interface

We offer the service to install and integrate the RTSS videoextensometer in existing tensile test machines. Please contact us by email info@limess.com or phone +49 2151 36528 00.

Further informations are on our website <http://www.limess.com>