imetrum

UVX3D

Dynamic Advanced Extensometer

Introducing UVX3D

The natural successor to previous generation Imetrum extensometers.

Accurate

Meets or exceeds ISO 9513 Class 0.5 and ASTM E83 Class B-1.

Capable

Real-time data and full post processing capability.

Tolerant

Test specimens of different geometries and dimensions without altering set up.

Versatile

Replaces a range of traditional sensors.

UVX3D - Tolerant, advanced material testing

Capable of measuring strain, rotation and extension in any orientation and providing outputs to a UTM load frame for further analysis such as tensile and compressive modulus, Poisson's ratio and R-value.

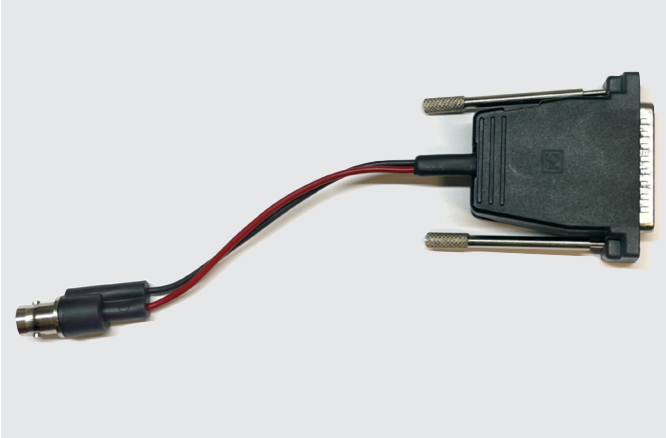
Using stereoscopic technology, UVX3D not only offers a flexible and tolerant working distance for a variety of machine, setup and specimen shapes, sizes and geometries but also eliminates errors due to out of plane movement or bending.

Ideal for determining low strain material properties (from 0.01%). All models are capable of meeting Class B-1 (ASTM E-83) and Class 0.5 (ISO 9513) at the specified gauge lengths and strain ranges.

- Alternative solution to contacting sensors, extensometers, LVDTs and strain gauges
- Factory verified, ready to measure out of the box
- Mounts and interfaces directly to UTMs
- 1000 Hz measurement speed
- Suitable for ambient and non-ambient testing
- Calibration to ASTM E83 and ISO 9513
- Inbuilt lighting negates both environmental effects and emitted radiation from specimens tested at high temperature
- Digital Image Correlation strain and displacement maps available as an option
- Post processing available on all systems to reanalyse and reconfigure tests

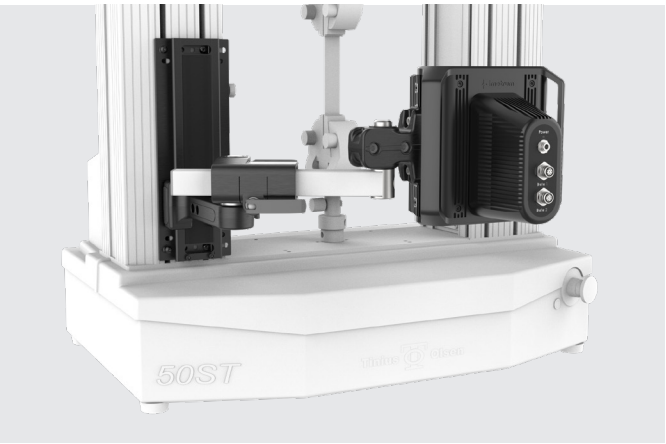
Accessories

A Marking Kit is included with stamps, pens and inks for a range of different specimens.



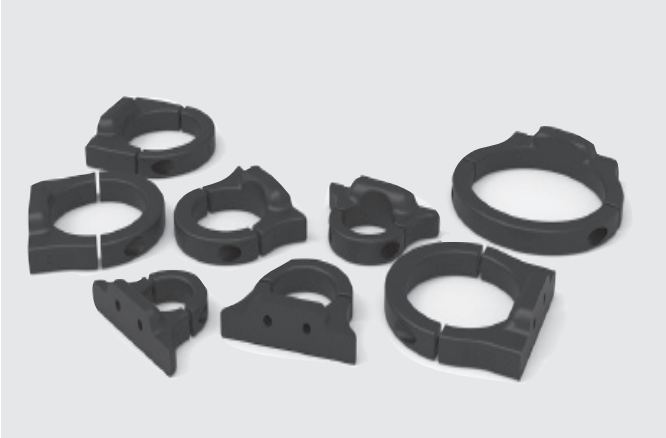
Strain Signal Interfacing

Options available for interfacing strain signal directly to a variety of UTMs.



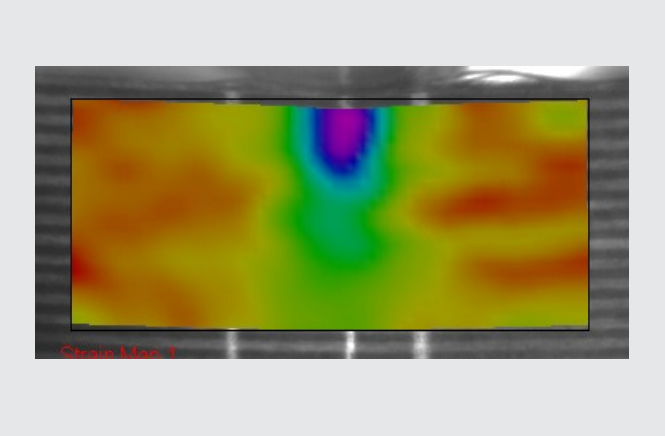
UTM Mount

Universal Test Frame mount with extendable locking arm to perfectly position UVX3D relative to the test sample.



Split Collar Clamps

For mounting UVX3D to UTMs fitted with cylindrical columns.



Digital Image Correlation

Digital Image Correlation delivers in depth knowledge of the entire specimen surface.

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