

 imetrum



# Vector

Extensometer

# Vector Extensometer

Vector is a new concept in strain and extension measurement.

It is a self-contained extensometer, capable of replacing multiple sensors with a single, industry specific instrument.

Using adaptive AI to implement decades of knowledge, paired with state-of-the-art hardware, Vector reduces throughput times whilst improving measurement accuracy and consistency.



## Accurate

ISO 9513 Class 0.5  
ASTM E83 Class B-1



## Automated

AI driven specimen  
detection



## Flexible

Wide range of  
specimen types



## Intuitive

Easy-to-use  
measurement

# Exceptional design

Vector reduces the challenges of traditional extensometers by using non-contact, high accuracy three-dimensional measurement techniques:

- Increases testing efficiency by reducing handling operations;
- Measures strain through failure;
- Operates in harsh environments and temperature chambers with no loss of functionality;
- Tests highly fragile specimens without impacting them;
- Enables rapid specimen throughput as well as easy integration to automation systems.

# Simple, reliable operation

- Intuitive features such as laser alignment guides, status indicator lights and a flexible operating distance all help the operator during setup and use.
  - Easy to understand feedback from both the Vector software interface and Vector itself, provides immediate confirmation of the state of the Module.
  - A range of automation features such as specimen and gauge length detection, simplify the operator interaction and improve test reliability.
  - Vector is pre-configured with a large working volume so extensometer setup changes are reduced when alternating between different specimens, grips or test types.
  - Onboard adaptive processing enables truly zero touch operation with dynamic response to varying specimen size, appearance and behaviour.
  - Automatic and seamless access to the built-in validation mode provides immediate confidence that Vector is behaving as expected and providing accurate results.
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# Accessories

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



## UTM Interface

Suitable for mounting to UTM T-slots.



## Extension Arm

Suitable for larger test frames or use with temperature chambers.



## Split Collar Clamps

For mounting Vector to UTMs fitted with cylindrical columns.



## Base Plate Adapters

To allow Vector to be fitted to UTMs without T-slots or cylindrical columns.