

# Vector U70

## Data Sheet

Vector replaces conventional contact and non-contact sensors with a single, purpose-built instrument. This uniaxial extensometer offers a 70 mm field of view.

### Vector Specifications

<b>Extensometer measurement applications</b>	Uniaxial; Tensile, Compressive or Flexural				
<b>Measurement modes</b>	Strain (%) or displacement (mm/inches)				
<b>Field of view</b>	70H x 40D x 25W mm cuboid				
<b>Resolution</b>	<0.5 $\mu$ m				
<b>Extensometer accuracy class</b>	Meets or exceeds ISO 9513 Class 0.5 and ASTM E83 Class B-1 capable				
<b>Gauge lengths supported</b>	10 to 50 mm				
<b>Representative maximum strain range and extension for selected gauge lengths</b>	GL	10mm	12.5mm	25mm	50mm
	Strain Range	400%	307%	120%	27%
	Extension Range	40 mm	38 mm	30 mm	13 mm
<b>Real-time strain data rate</b>	150Hz				
<b>Minimal specimen width</b>	2 mm flat, 2.5 mm diameter round				
<b>Minimal recommended specimen parallel section</b>	14 mm				
<b>Maximum tracking speed</b>	2500 mm/min				
<b>Strain control</b>	Compliant to ISO 6892 and ASTM E8				
<b>Operating distance</b>	280 to 320 mm				
<b>Strain output interface*</b>	Analogue: $\pm$ 10V BNC Digital: RS232 serial 15 pin D-sub				
<b>Supported mark types**</b>	Rings, filled circles and speckles automatically detected				
<b>Recommended specimen temperature range***</b>	-100 to +370°C				
<b>Dimensions</b>	252H x 73D x 201W mm				
<b>Weight (Vector module only)</b>	3.1 kg				

\*Digital output with select UTMs only, via specific adapter cable.

\*\*Always use marking kit provided.

\*\*\* For optimal performance at non-ambient temperatures, please consult the provided guidance. This guidance often enables accurate results at temperatures far exceeding 370°C.

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