

Extensometer for Rebar Connectors



Picture just for reference

RTTS Video extensometer is an optical non-contact type three-dimensional deformation measuring system based on DIC(Digital Image Correlation)measurement method. It can accurately measure the 2D & 3D strain property of materials and components. Meanwhile, it can also be applied for testing and displacement measurement of 3D Profile-Displacement-Deformation of various metals and nonmetals, under static & dynamic deformation tests.

Applications:

- 1、 Tensile test for bar specimen at 1000℃
- 2、 Tensile test for smaller metal sheet with 12mm gauge length
- 3、 Tensile test for film specimen
- 4、 Tensile test for plastic specimen with dual camera system (Stitched Scene)

5、Poisson's ratio measurement for carbon fibre composite with dual camera system

6、Three point bending test for wooden specimen

Features:

- Non-contact
- High temperature
- Material independent
- High speed
- Geometry independent
- Connectivity to large number of test rigs types
- 2D and 3D measurement
- Smallest to largest object sizes
- Mobile and flexible
- Smallest to largest deformations
- High accuracy
- Easy specimen preparation
- Video stroboscopic functionality (synchronization with periodic phenomena)
- Customizable export formats

Specifications:

Parameters	Range*	Typical system
Classification to ISO 9513	Class 0.2, 0.5, 1, 2, -	Class 1
Classification to ASTM E 83	Class A, B-1, B-2, C, D, E	Class B-1
FOV	2-2000mm	60mm
Gage length	0.01-800 %	0.01-10 %

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