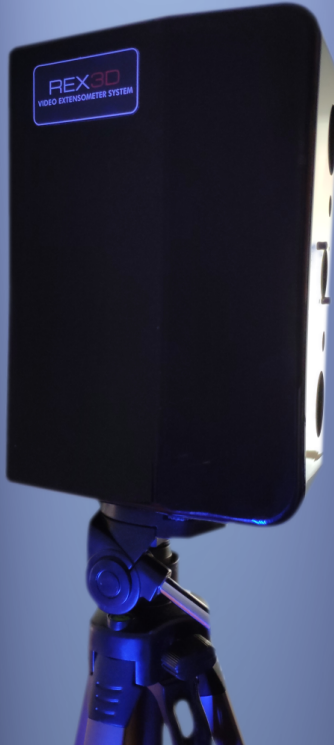# REX3D
VIDEO EXTENSOMETER SYSTEM

Revolutionary Video Extensometer
Compatible with all UTMs

Real-time virtual strain gauge

Full field strain and displacement maps:
- *Axial strain (Eyy) and displacement (Ey)*
- *Transverse strain (Exx), and displacement (Ex)*
- *Shear strain (Exy)*
- *Maximum and minimum normal strain*

Synchronization with UTM using exported files:
- *.dat, .csv, and .xls files (time, test time, load, and displacement)*

UNIVERSAL: Compatible with all types of UTMs
ATTACH & GO: Easy installation and integration
USER-FRIENDLY: Clear software user interface
GLOBAL SUPPORT: Visit psaron.com for local offices

REX3D Non-Contact Video Extensometer	
Full Field Strain and Displacement Maps	Axial Strain, Axial Displacement, Transverse Strain, Transverse Displacement, Shear Strain, Maximum Normal Strain, Minimum Normal Strain
Measurement Type	Digital Image Correlation (DIC), Multiple Pattern Recognition and Tracking
Vision system	Auto-view of EX6 with 6 Camera Units
Sample Width for Measurement	5-50mm
Sample Length for Measurement	50-700mm
Resolution	$<1\mu m$
Operation modes	Live, Pre-processing, Post-processing
General Features	Detection of Strain at Failure, Customized Plot Generation, Virtual Strain Gauges
Standard reporting	Passworded in Excel format and Graphics
International standard compliance	Class I accuracy complying with EN ISO 9513
Software language	English (All languages at request)
Autocalibration	YES
Calibration material	Certified calibration samples
Illumination	Multiple Bright Field (420-780nm) – Laser (632nm)
Tool PC with pre-installed software	Included
Communication	All USB 2.0/3.0
Power requirements / consumption	100-240V 50/60Hz / 10A max fused
Dimension (WxDxH) (mm)	450 X 200 X 150
Weight (kg)	5.5
Operating temperature °C	5-50
Warranty	1 years full

Robotic Line Ready
Network Database Connection
Manufacturing Quality Continuity

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