

THREE-DIMENSION FULL-FIELD STRAIN MEASUREMENT SYSTEM

DISPLACEMENT/DEFORMATION
AND MOTION ANALYSIS

SUBPIXEL MEASUREMENT
ACCURACY

MULTIPLE MEASUREMENTS



ISD-TD1-U

- Accurate calculation of 3D coordinates, 3D displacements and strains, velocities and accelerations, etc
- By analyzing the measurement data, parameters of the mechanical properties, trajectory and deformation of the material are obtained
- Comprehensive range of measurement results, including single-point, multi-point, full-field data, 2D/3D data, images, tables, videos, curves, and customized data

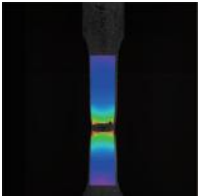
Main application

- Testing of mechanical properties of materials and parts
- Structural strength and stiffness analysis
- Vibration analysis
- Collision test
- Complex 3D motion analysis
- High and low temperature expansion analysis
- Video Extensometer

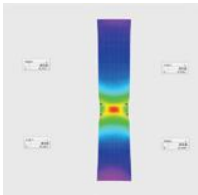
Typical Application



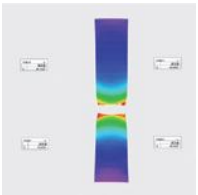
test site



picture after breaking

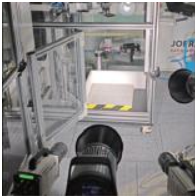


cloud picture before breaking

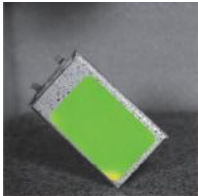


cloud picture after breaking

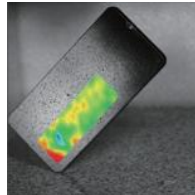
tensile testing of steel plates for automobiles



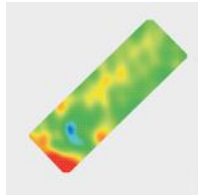
test site



battery pack drop test
strain field picture



mobile phone drop test
strain field picture



mobile phone drop test
strain field cloud picture

various drop tests

SPECIFICATION

Part No.	ISD-TD1-U	ISD-TD2-U	ISD-TD3-U
Pixel	5M	12M	25M
Frame rate	60fps	30fps	90fps
Strain accuracy	≤50μ ϵ	≤20μ ϵ	≤20μ ϵ
Strain range	0.005%~2000%	0.002%~2000%	0.002%~2000%
View field	.39"~157.5"	.39"~393.7"	.39"~393.7"

* Can be customized according to actual scenarios (microscopic, high-speed, etc)

STANDARD DELIVERY

Camera	2 pcs
Tripod	1 pc
Computer	1 pc
Three-dimension software	1 pc

OPTIONAL DELIVERY

Video extensometer software	ISD-UTM-M
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