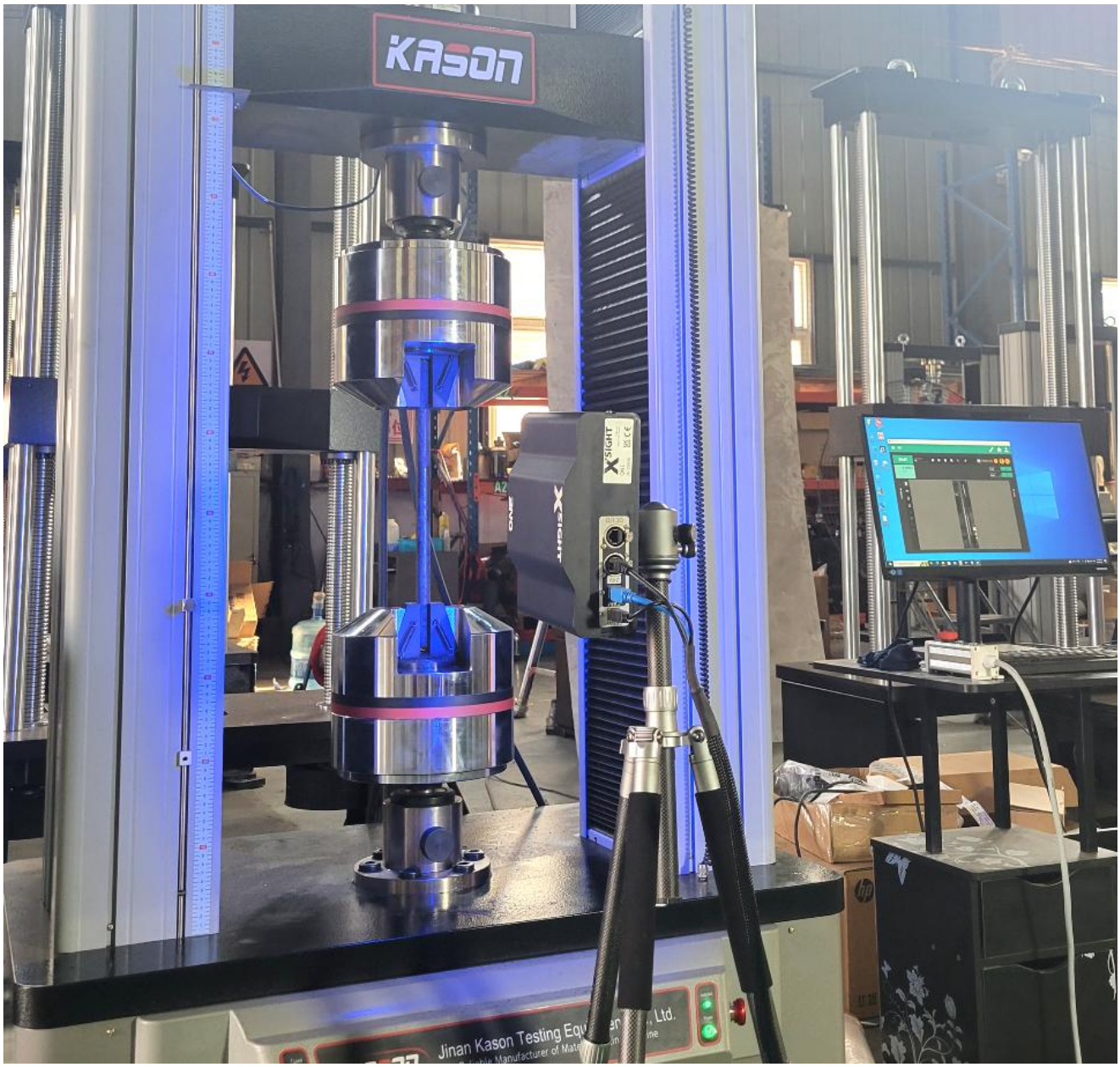
Video Extensometer ONE1-M2



Application

RTTS Video Extensometer is an optical non-contact type three-dimentional 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.

Features

Non-contact measurement

Real-time strain measurement

Stress-strain curve

Material performance calculation

Default single cam measurement length:110mm(220mm)

Default resolution according to ISO9513:Class 0.5(Class 1)

Default resolution according to ASTME83-10:Class B-1(Class B-2)

Gauge Length:Selectable single or multiple points L0

Data acquisition rate:75-500Hz

Transverse Measurement:Optional transverse or Bi-axial

Axial and radial neck detection

Output: Digital and analog

Lighting:Auto-switching monochromatic light

Software Integrated:via extensometer user interface

Mounting: Test frame,chamber or Tri-pod

Specifications

Parameters	Range*	Typical system
Measurement range	**ASTM E83 Class B1 or ISO 9513 Class 0.5 standards**	
FOV	Class 0.5: 100; Class 1: 200mm	
Gage length	0.01-800 %	
Resolution	FOV 100mm: 0.5μm FOV 200mm: 1μm	
Camera resolution	2.3MPx	
No. of Cameras	1	
FPS at full resolution	43Hz	
Interface	USB	