

# SensRay

## Distributed Fiber Optic Sensing System

Real-Time Strain & Temperature Monitoring

## STR-100



**1  $\mu$ e Precision**

High-resolution strain measurement



**Up to 1,000 m**

Long-range distributed sensing



**Real-Time Monitoring**

Instant visualization  
and data acquisition



Structural  
Monitoring



Railway  
Infrastructure



Industrial  
Sensing



Smart  
Infrastructure

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# STR-100 Specifications

High-Speed Distributed Strain Sensing

MEASUREMENT	
Measurable distance	30m ~ Max. 1000m
Strain resolution	1 $\mu\epsilon$
Strain measurement range	$\pm 4,000 \mu\epsilon$
Spatial resolution	1 cm ~ 100 cm
Measurement time	2 ms
Sampling interval	7 ms ~ 1 hour
Consecutive measurements	100 times

OPTICAL	
Optical Fiber	SMF
Optical Connector	FC/APC or SC/APC
Number of channels	1 ch (8 ch, 12 ch option)

SYSTEM	
Dimensions (W x H x D)	365 x 151 x 386 mm
Weight	9 kg
Power Supply	AC 100~240 V, 50/60 Hz, 100 W

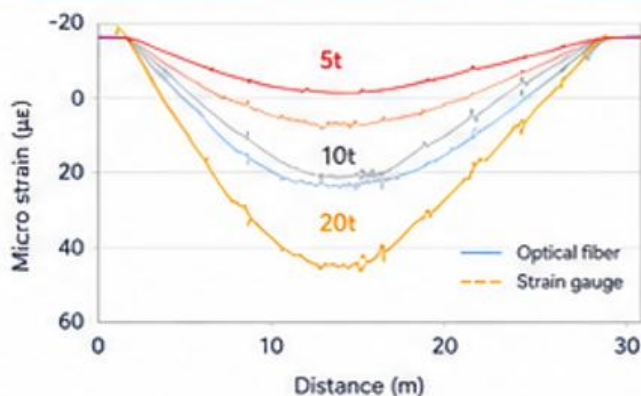
## Instant Measurement with Intuitive GUI



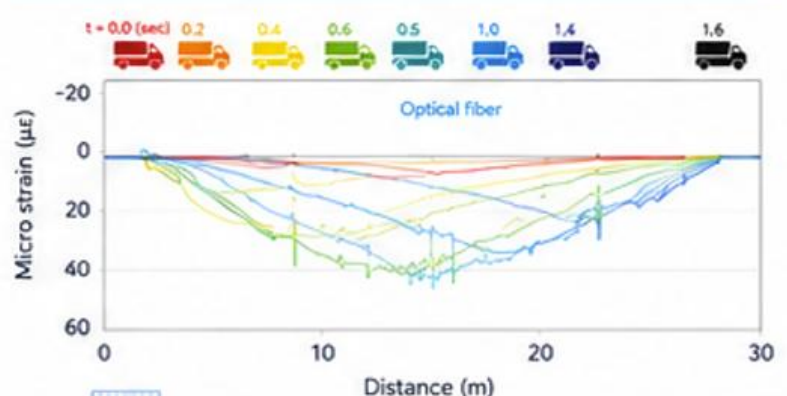
- Real-time visualization
- Compatible with analysis software via CSV output
- Rapid data analysis and reporting
- Live monitoring for confident decision-making

## Application Examples

Main girder strain response as a function of vehicle weight



Live load response under a 20 ton truck



This example shows high-precision strain measurement of a prestressed concrete bridge under truck loading. SensRay accurately correlates vehicle weight with live load response, supporting reliable structural health evaluation and research applications.

**Ordering Information: STR-100**