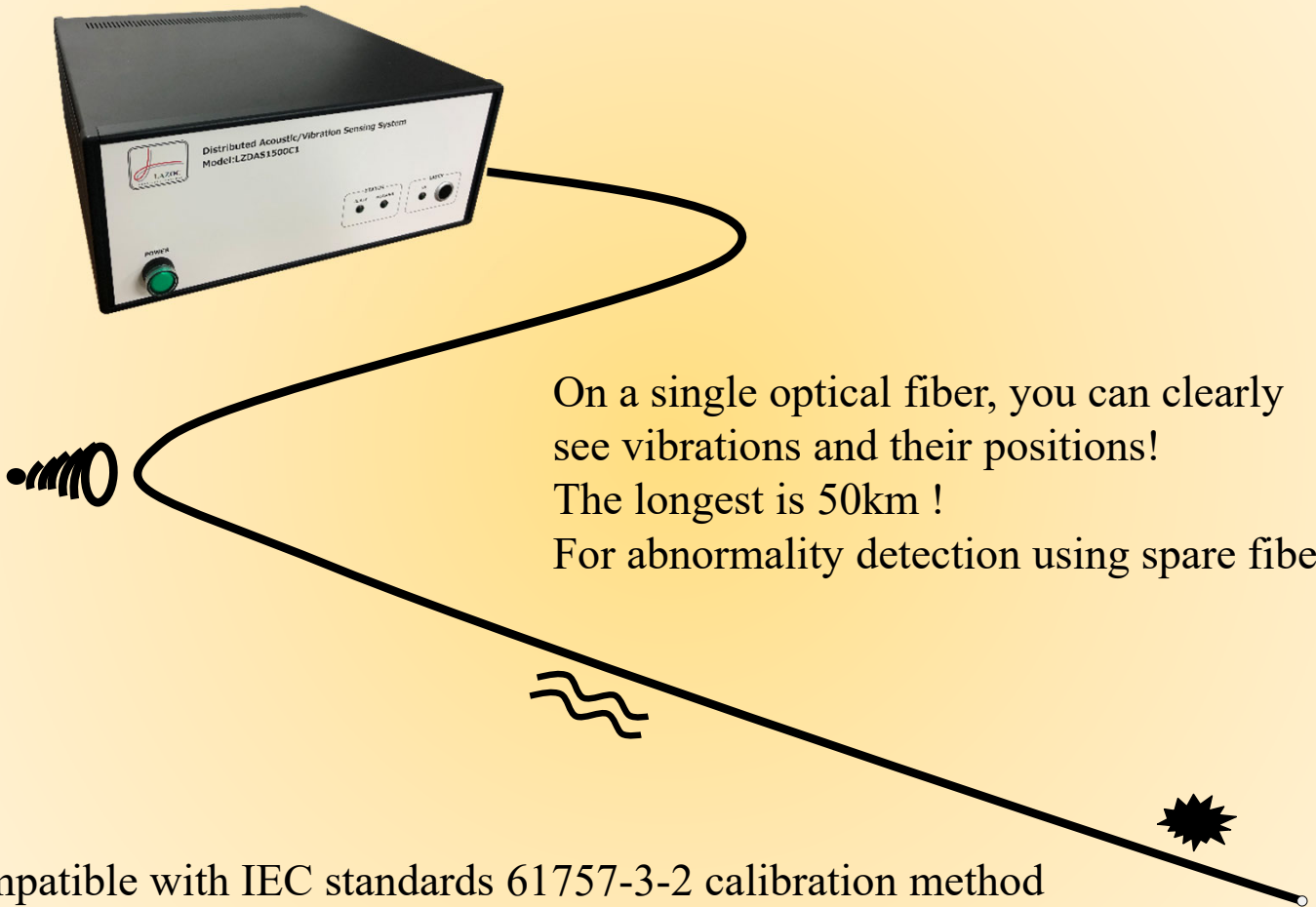




# DAS (Distributed Acoustic Sensor)

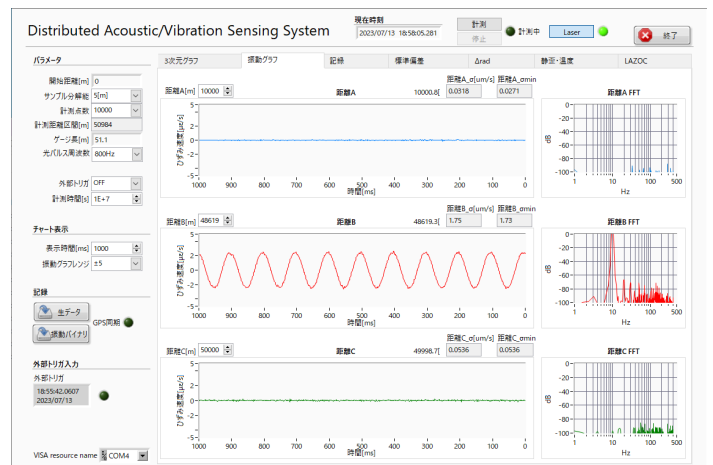
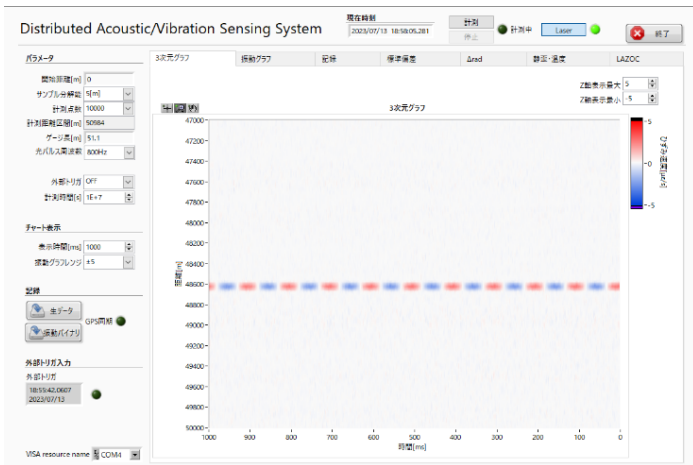
Vibration can be monitored over an entire fiber optical length



On a single optical fiber, you can clearly see vibrations and their positions!  
 The longest is 50km !  
 For abnormality detection using spare fiber!

Compatible with IEC standards 61757-3-2 calibration method

## User interface



Vibration distribution display example (left: 3D vibration waveform, right: 2D vibration waveform)  
 ( Displays vibration waveform around 49km )

## specification

item		specification	remarks
Measurement item		Vibration distribution	Units are expressed in strain rate
Optical fiber	kinds	SM fiber	Optical fiber is sold separately. No reflection at optical fiber connection points, etc.
	optical connector	FC/APC	
Vibration measurement (distance)	Measurement distance	Maximum 50Km	
	Spatial sampling	0.2 ~ 10m	
	Gauge length	Can be selected during analysis	
Vibration measurement (time)	Sampling rage	500Hz ~ 4KHz	
noise floor		$3\text{p } \varepsilon / \sqrt{\text{Hz}}$ typical	@50Km, 50m gauge
Waveform display function	Display waveform	3D , 2D	2D waveform displays three locations simultaneously
	Real time display	10 sec continuous	2D waveform displays
record	data capacity	Approximately 3.5TByte/day	1kHz sampling, 10K points
	data format	Raw , vibration binary	
	synchronization	GPS , external trigger	
power supply	Power-supply voltage	AC100V	
	power consumption	40VA	PC is separate
laser safety		Class 1M	
External dimensions		450x177x430mm	Does not include protrusions
mass		13Kg	PC is separate
Attached items		Dedicated PC , control software, etc.	